

Audit, Compliance and Governance Committee

Meeting Date

October 15, 2020





Audit, Compliance, & Governance Committee Members

| Matthew Ranelli, Chairman | Lonnie Reed |
|--|--|
| Partner, Shipman & Goodwin LLP | Board Chair |
| | |
| Thomas M. Flynn | Michael Li |
| Managing Member, Coral Drive Partners, LLC | Connecticut Department of Energy and Environmental Protection (DEEP) |

845 Brook Street, Rocky Hill, CT 06067 T 860.563.0015 ctgreenbank.com



October 9, 2020

Dear Audit, Compliance and Governance (ACG) Committee Members,

We look forward to our meeting on Thursday, October 15th via GoToMeeting, https://global.gotomeeting.com/join/656561573 from 8:30 a.m. to 9:30 a.m. We will be discussing the following agenda items:

- 1. BOD Membership Term Updates and Attendance Review
- 2. Governance review
 - a. Governance Documents
 - i. Resolution of Purpose
 - ii. Bylaws of the Connecticut Green Bank
 - iii. Bylaws of the Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank
 - iv. Operating Procedures
 - v. Ethics Statement
 - vi. Ethical Conduct Policy Board of Directors
 - vii. Ethical Conduct Policy Staff
 - b. Reporting Requirements
- 3. Discuss Proposed Draft Comprehensive Annual Financial Report (CAFR)
- 4. Evaluation Framework Energy Burden
- 5. Legislative Update

As always, please let me know if you have any questions.

Sincerely,

Brian Farnen

General Counsel & Chief Legal Officer



<u>AGENDA</u>

Audit, Compliance and Governance Committee of the Connecticut Green Bank 845 Brook Street Rocky Hill, CT 06067

> Thursday, October 15, 2020 8:30 – 9:30 a.m.

Staff Invited: Jane Murphy, Brian Farnen, Bryan Garcia, Bert Hunter, Matt Macunas and Eric Shrago

Others invites:

- 1. Call to order
- 2. Public Comments
- 3. Approve Meeting Minutes for May 19, 2020* 5 minutes
- 4. BOD Membership Term Updates and Attendance Review 10 minutes
- 5. Governance Review 5 minutes
 - a. Governance Documents
 - i. Resolution of Purpose
 - ii. Bylaws of the Connecticut Green Bank
 - Bylaws of the Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank
 - iv. Operating Procedures
 - v. Ethics Statement
 - vi. Ethical Conduct Policy Board of Directors
 - vii. Ethical Conduct Policy Staff
 - b. Reporting Requirements
- 6. Discuss Proposed Draft Comprehensive Annual Financial Report (CAFR)** 30 minutes
- 7. Evaluation Framework Energy Burden 5 minutes
- 8. Legislative Update 5 minutes
- 9. Adjourn

^{*}Denotes item requiring Committee action

^{**} Denotes item requiring Committee action and recommendation to the Board for approval

Or call in using your telephone: Dial +1 (571) 317-3122 - One-touch: tel:+15713173122,,656561573#

Access Code: 656-561-573

Next Regular Meeting: TBD Connecticut Green Bank, 845 Brook Street, Rocky Hill, CT



RESOLUTIONS

Audit, Compliance and Governance Committee of the Connecticut Green Bank 845 Brook Street Rocky Hill, CT 06067

> Thursday, October 15, 2020 8:30 – 9:30 a.m.

Staff Invited: Jane Murphy, Brian Farnen, Bryan Garcia, Bert Hunter, Matt Macunas and Eric Shrago

Others invites:

- 1. Call to order
- 2. Public Comments
- 3. Approve Meeting Minutes for May 19, 2020* 5 minutes

Resolution #1

Motion to approve the minutes of the Audit, Compliance and Governance Committee meeting for May 19, 2020. Second. Discussion. Vote.

- 4. BOD Membership Term Updates and Attendance Review 10 minutes Brian Farnen
- 5. Governance Review 5 minutes Brian Farnen
 - a. Governance Documents
 - i. Resolution of Purpose
 - ii. Bylaws of the Connecticut Green Bank
 - iii. Bylaws of the Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank
 - iv. Operating Procedures
 - v. Ethics Statement
 - vi. Ethical Conduct Policy Board of Directors
 - vii. Ethical Conduct Policy Staff
 - b. Reporting Requirements
- Discuss Proposed Draft Comprehensive Annual Financial Report (CAFR)** 30 minutes
 Jane Murphy and Eric Shrago

Resolution #2

RESOLVED, that the Audit, Compliance and Governance Committee hereby recommends to the Board of Directors for approval the proposed draft Comprehensive Annual Financial Report (CAFR) for the fiscal year ending June 30, 2020.

Second. Discussion. Vote

7. Evaluation Framework – Energy Burden – 5 minutes – Eric Shrago

Resolution #3

RESOLVED, that the Audit, Compliance and Governance Committee hereby recommends to the Board of Directors for approval the proposed Residential and Commercial Energy Burden Reduction (Solar) methodology fact sheets.

Second. Discussion. Vote

- 8. Legislative Update 5 minutes Matt Macunas
- 9. Adjourn
- *Denotes item requiring Committee action

Join the meeting online at

https://global.gotomeeting.com/join/656561573

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Next Regular Meeting: TBD Connecticut Green Bank, 845 Brook Street, Rocky Hill, CT

^{**} Denotes item requiring Committee action and recommendation to the Board for approval

ANNOUNCEMENTS

- Mute Microphone in order to prevent background noise that disturbs the meeting, if you aren't talking, please mute your microphone or phone.
- <u>Chat Box</u> if you aren't being heard, please use the chat box to raise your hand and ask a question.
- Recording Meeting per Executive Order 7B (i.e., suspension of in-person open meeting requirements), we need to record and post this board meeting.
- State Your Name for those talking, please state your name for the record.



Audit, Compliance and Governance Committee



ACG Committee Agenda Item #1 Call to Order



ACG Committee Agenda Item #2 Public Comments



ACG Committee Agenda Item #3 Consent Agenda

Consent Agenda Resolution 1



 Meeting Minutes – approval of meeting minutes of May 19, 2020



ACG Committee

Agenda Item #4
BOD Member Term Updates and Attendance review

Governance Compliance Overview Memo

BOD Member Appointment Spreadsheet



Connecticut Green Bank BOD Member Attendance Review and Notification Process

Review of BOD & Committee Compliance Overview Memo for FY2020.

Two members were out of compliance during FY2020.

Yearly Attendance Letters to be sent to all members.



Connecticut Green Bank BOD Member Attendance Review and Notification Process

Review of BOD Appointments Spreadsheet

Three members appointment terms have expired prior to or during FY2020.



ACG Committee
Agenda Item #5
Governance Review



Connecticut Green Bank Governance Review

Annual Review of Governance Documents



Annual Review of Governance Documents



- Governance Documents
 - Resolution of Purpose
 - Bylaws of the Connecticut Green Bank (REVISED IN 2020)
 - Bylaws of the Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank
 - Operating Procedures
 - Ethics Statement
 - Ethical Conduct Policy Board of Directors
 - Ethical Conduct Policy Staff



ACG Committee

Agenda Item #6
Proposed Draft Comprehensive
Annual Financial Report (CAFR)

TRANSFER TO BLUM SHAPIRO SLIDES

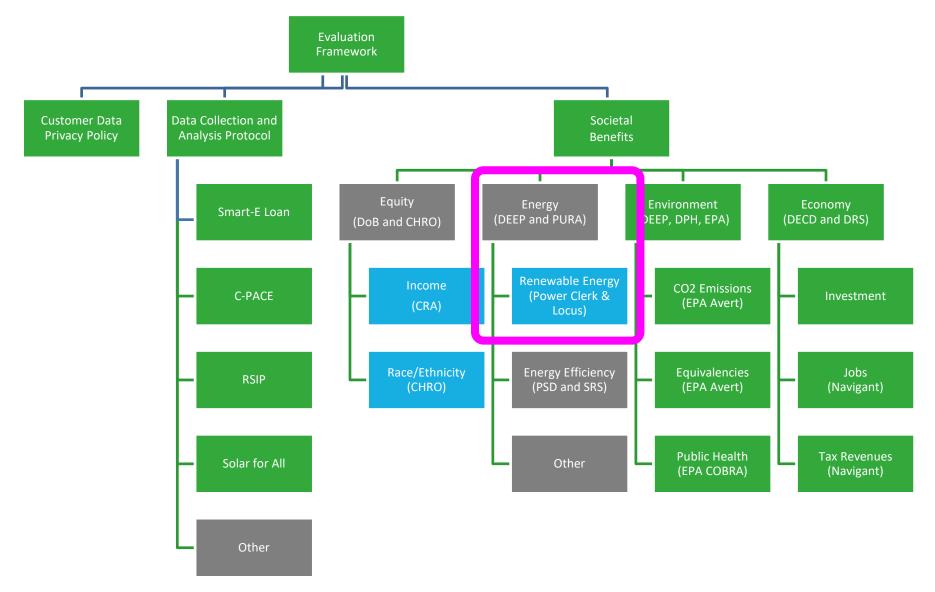


ACG Committee Agenda Item #7 Evaluation Framework

Evaluation Framework



"Big Picture" of E⁴ Architecture



Quantifying the Energy Burden Reduction



Goal: Quantify the economic benefit of energy savings to end-use customers of clean energy – or what we call the energy burden reduction. We seek to put a monetary value due to going solar.

Approach:

- Commercial Utilize PPA rate information for all PPAs
- Residential Utilize lease payment information for Posigen, SL1 and SL2
- The Green Bank has built an integrated data warehouse that has access to production data on all systems where we have an economic stake

Approach



Methodology: Value the power a customer receives from their system rather than to purchase this from their utility supplier. The difference between the cost of electricity from this provider versus the cost of electricity from a Green Bank owned solar PV system is equal to the dollars a customer saved by allowing Green Bank to supply them electricity (i.e., reduce their energy burden).

- PPA Rates and Solar Expenses were determined by CT Green Bank.
- Actual utility rates were recorded off Public Utility Regulatory Authority's (PURA)
 docket website.
- Real Solar PV Generation for our systems is extracted from the monitoring service LocusEnergy.

Equations



a) Commercial Savings

= Solar PV Generation x (Utility Rate – PPA Rate)

b) Posigen/SL1/SL2 Savings

= (Utility Rate x Solar PV Generation) - Solar Expense

Other Considerations



- Net Metering Income: The Green Bank has a practice of building our solar PV systems up to 80% of a residential customer's demand. Due to this sizing practice, our solar PV systems were built in such a way where solar PV generation will never exceed yearly customer kWh demand.
- Off peak usage only in Time-of-Day Utility Estimate Calculation: in an effort to underestimate rather than overestimate savings we only use off peak charges in the Hypothetical Avoided Utility Expense calculation. In the future we would consider adjusting the Hypothetical Avoided Utility Expense calculation to include peak prices.
- Billing Schedule: For this report, we assume the customer billing month starts on the first day and ends on the last day each month.
- Additional Note: Residential customers have the option to get supplied energy from third party providers, not just Eversource and UI. However, we are not considering third party utility providers.



ACG Committee
Agenda Item #8
Legislative Update

Legislative Update

Special Session to Strengthen Utility Regulation



- Expands DEEP's microgrid grant and loan program to cover resilience projects and requires prioritization of funding proposals that benefit vulnerable communities
- Requires DEEP to evaluate the state's reliance on wholesale energy markets administered by ISO-NE and recommend alternatives
- Requires development of frameworks for performance-based utility regulation
- Allows PURA to establish reliability performance standards including minimum utility staffing levels
- Extends PURA's allotted review time on utility rate cases
- PURA may consider certain rate changes: an interim decrease; low-income rates; and economic development rates
- Requires proportional representation for CT on boards of directors of holding companies for PURA-regulated utilities
- Service outages longer than 96 hours result in monetary customer compensation for lost service and spoilage of food and medication





ACG Committee Agenda Item #9 Adjourn



AUDIT, COMPLIANCE AND GOVERNANCE OF THE CONNECTICUT GREEN BANK

Special Meeting Minutes

Tuesday, May 19, 2020 8:30 – 9:30 a.m.

A regular meeting of the Audit, Compliance and Governance Committee of the **Connecticut Green Bank (the "Green Bank")** was held on May 19, 2020.

Due to COVID-19, all participants joined via the conference call.

Committee Members Present: Matt Ranelli, Lonnie Reed, Thomas Flynn

Committee Members Absent: Michael Li, Mary Sotos

Staff Attending: Brian Farnen, Bryan Garcia, Bert Hunter, Matt Macunas, Jane Murphy, Cheryl Samuels, Ariel Schneider, Eric Shrago

Others present: None

1. Call to Order

Matt Ranelli called the meeting to order at 8:33 am.

2. Public Comments

No public comments.

3. Approve Meeting Minutes for March 11, 2020

Resolution #1

Motion to approve the minutes of the Audit, Compliance, and Governance Committee meeting for March 11, 2020.

Upon a motion made by Lonnie Reed and seconded by Matt Ranelli, the ACG Committee voted to approve Resolution 1. None opposed, Thomas Flynn abstained. Motion approved.

4. Proposed Loan Loss Decision Framework and Process - Subsidiaries

- Bryan Garcia summarized the Loan Loss Reserve Framework, the changes due to COVID-19, and the proposed Subsidiaries Loan Loss framework. The proposed framework will also be presented to the Deployment Committee and Board of Directors. The Framework is the same from the Loan Loss Reserve but will just be applied to the Subsidiaries.
 - Matt Ranelli asked about a report-back requirement in response to restructures from Staff. Bryan Garcia and Brian Farnen confirmed there is a quarterly reporting requirement normally, but due to COVID-19, there has been more effort to report month-to-month. Matt Ranelli asked if there are many future restructuring requests, if the committees be informed. Brian Farnen said yes, and Bert Hunter elaborated further on some current restructuring in process, though it is less than 5% of the Commercial Portfolio and less than 1% of the Residential Portfolio. Bert Hunter stated he expects the numbers to increase but believes the Green Bank will be stable despite any increase given its substantial net assets position and recently increased loan loss reserve.
 - Matt Ranelli asked if forbearance over forgiveness is being seeing in restructured projects, and Bert Hunter said yes and evaluated on the Green Bank's process to restructure which allows for customer payment flexibility. He also noted that he has seen many instances of forbearance in other companies' and banks' Q1 portfolios when presented, and in comparison, the Green Bank looks quite stable.

Resolution #2

WHEREAS, pursuant to Section 5.3.1 of the Connecticut Green Bank (Green Bank) Bylaws, the Audit, Compliance & Governance (ACG) Committee is charged with the review and approval of, and in its discretion recommendations to the Board regarding, all governance and administrative matters affecting the Green Bank, including but not limited to matters of corporate governance and corporate governance policies;

WHEREAS, on October 20, 2017, the Green Bank Board of Directors approved of a recommendation brought forth by the ACG Committee and Deployment Committee to approve the authorization to amend the Staff Approval Policy to increase program funding requests for Projects Under \$300,000 to \$500,000 with an aggregate amount limit of \$1,000,000 from the date of the last Deployment Committee meeting; and

WHEREAS, based on a recommendation brought forth by the Deployment and ACG Committees, the Board approved and authorized the Green Bank staff to implement the Loan Loss Decision Framework and Process for managing assets requiring restructuring or write-off from the Green Bank's balance sheet and consistent with the memorandum to the Board dated June 13, 2018 ("Loan Loss Decision Framework and Process") and for a similar framework to be developed at a future date for the Green Bank's special purpose vehicles (i.e., subsidiaries); and

WHEREAS, in response to the COVID-19 pandemic, the staff of the Green Bank proposed a modification to the Loan Loss Decision Framework and Process with regards to

Subject to Changes and Deletions

restructuring transactions, as well as the Green Bank's provision for loan losses, in order to help families and businesses manage through this public health crisis, which the Board approved on April 24, 2020.

NOW, therefore be it:

RESOLVED, that the ACG Committee recommends that the Board of Directors approve of the Staff proposed Loan Loss Decision Framework and Process for Subsidiaries for managing assets requiring restructuring or write-off from the Green Bank's balance sheet and consistent with the memorandum dated May 12, 2020.

Upon a motion made by Lonnie Reed and seconded by Matt Ranelli, the ACG Committee voted to approve Resolution 2. None opposed or abstained. Motion approved unanimously.

5. Discuss Draft Succession Plan

- Bryan Garcia summarized the history of the Succession Plan and noted that the FY17-FY20 Succession Plan is coming to an end and hence the need to establish the next iteration of the plan. This is the third plan update and helps prepare the Green Bank should a senior staff member be unable to be retained.
- Overall, the senior staff continues to be motivated by non-compensation benefits such as the mission of the Green Bank, the work-life balance it provides, and the ability to make a measurable impact. As for current findings, there is a lack of current successors, though there is a growing number of strong future leaders. As well, the national election results may impact the Green Bank's senior staff if any are called to service in support of the government. Bryan Garcia noted that the plan in the past has not been a formally approved document but a guide which allowed for more flexibility based on staff.
 - Matt Ranelli and Lonnie Reed both commented about the importance and success of the document. Thomas Flynn noted it would be interesting to use the plan to address any identified holes or shortcomings, which Bryan Garcia responded that given the changes by COVID-19, the situation is ever changing. Thomas Flynn agreed but stressed the need to proactively address potential issues now more than ever.
 - Matt Ranelli suggested identifying subsidiaries as a possible source of recruitment as well as establishing a more formal Green Bank alumni list in the future. Eric Shrago agreed that the alumni list would be a great idea.

6. Employee Handbook Revisions for Recommendation to BOD

- Eric Shrago summarized the 2020 Handbook Updates. There are regular small changes
 to be made, but the larger updates are designed to capture the COVID-19 impacts,
 including clarifying the telecommuting policy changes, and changes to current
 technology in terms of platforms, systems, and forms. Eric Shrago also noted that the
 Green Bank handbook was compared to handbooks of comparable companies and
 minor, rephrasing changes were made as appropriate.
- Bryan Garcia expanded on the changes to the telecommuting policy and flex-time. The
 Green Bank staff has adapted well to the full-time telecommuting policy in the wake of
 COVID-19. In terms of flex-time, the current flex-time schedule is rather restrictive, but

changes would allow individuals to be able to handle the new challenges of work-life balance better, again especially due to the impacts of COVID-19.

- Lonnie Reed agreed that the changes seem smart and agreed with them.
- Thomas Flynn asked if the Governor's Orders were long term or short term, and if it would be appropriate to include them. Brian Farnen responded that the Orders had a set time frame and eventually will expire, but the Handbook is flexible enough to be changed later if needed, even if the Orders have long-since ended. Bryan Garcia also noted that the changes seem like they may just become a best-practice, as the COVID-19 changes seem to have only thrust those changes into the current time instead of later. It was reinforced that the Handbook is still able to be edited later should the need arise. Matt Ranelli noted his desire to make sure the business hours are still clearly established in order to promote public confidence in the business.

Resolution #3

WHEREAS, pursuant to Section 5.2.1 of the Connecticut Green Bank (Green Bank) Bylaws, the Audit, Compliance & Governance (ACG) Committee is charged with the review and approval of, and in its discretion recommendations to the Board of Directors (Board) regarding, all governance and administrative matters affecting the Green Bank, including but not limited to the Connecticut Green Bank Employee Handbook;

NOW, therefore be it:

RESOLVED, that the Audit, Compliance and Governance Committee hereby recommends that the Board of Directors of the Connecticut Green Bank approval of the revisions to the Connecticut Green Bank Employee Handbook presented on May 19, 2020.

Upon a motion made by Thomas Flynn and seconded by Lonnie Reed, the ACG Committee voted to approve Resolution 3. None opposed or abstained. Motion approved unanimously.

7. BOD Membership Terms Update

Brian Farnen summarized the Board of Directors membership terms. There is only one
position to fill at this time: Bettina Bronisz will be changed to Steven Meier for the State
Treasurer position. Other positions have ended as well but as no successor has been
identified, those officers remain in their positions.

8. Update to Statutory Report Status

 Matt Macunas summarized the Statutory Report updates and the Green Bank is up to date with reporting.

9. Legislative Update

Matt Macunas summarized the Post-Session Wrap Up of the 2020 Legislative Session.
 Due to COVID-19 and legislative closures, the session closed in May 2020 without

Subject to Changes and Deletions

further votes or discussions on the proposed bills that were introduced and testified on earlier. For contingent legislative sessions, the Green Bank has identified two items that have priority: the RSIP extension for Residential solar PV market stability and CPACE resiliency financing. The situation remains fluid however.

10. Adjourn

Upon a motion made by Thomas Flynn and seconded by Lonnie Reed, Audit, Compliance and Governance Committee Meeting adjourned at 9:28 am.

Respectfully submitted,

Matthew Ranelli, Chairperson

845 Brook Street, Rocky Hill, CT 06067 T 860.563.0015 ctgreenbank.com



Memo

To: Board of Directors of the Connecticut Green Bank

From: Brian Farnen, VP, CLO and General Counsel, Matt Ranelli, Chair of the Audit, Compliance and

Governance Committee

Date: July 24, 2020

Re: Overview of Compliance Reporting and the Board of Directors and Committees for FY 2020

Overview

This memo provides a summary report of the FY 2020 governance as it pertains to the Board of Directors and its Committees.

This summary report also includes status of Statement of Financial Interest (SFI) filing requirements, report filings that are statutorily required by the Connecticut General Assembly for the Connecticut Green Bank (Green Bank), and review of governance documents (i.e., bylaws, operating procedures, etc.).

Pursuant to Section 16-245n of the General Statutes of Connecticut, the powers of the Green Bank are vested in and exercised by the Board of Directors that is comprised by up to eleven voting and one non-voting member, each with knowledge and expertise in matters related to the purpose of the organization (see Table 1).

Table 1. Composition of the Board of Directors of the Green Bank in FY 2020

| Position | Name | Status (as of 06-30-2020) | Voting |
|------------------------------------|--|----------------------------------|--------|
| Commissioner of DECD (or designee) | Binu Chandy | Ex Officio | Yes |
| Commissioner of DEEP (or designee) | Mary Sotos ¹ Michael Li | Ex Officio | Yes |
| State Treasurer (or designee) | Bettina Bronisz Steven Meier ² | Ex Officio | Yes |
| Finance of Renewable Energy | Vacant | Vacant | Yes |
| Finance of Renewable Energy | Kevin Walsh | Appointed | Yes |
| Labor Organization | John Harrity | Appointed | Yes |
| R&D or Manufacturing | Lonnie Reed ³ | Appointed | Yes |
| Investment Fund Management | Eric Brown | Appointed | Yes |
| Environmental Organization | Matthew Ranelli | Appointed | Yes |
| Finance or Deployment | Tom Flynn | Appointed | Yes |
| Residential or Low Income | Betsy Crum ⁴ Brenda Watson | Appointed | Yes |
| President of the Green Bank | Bryan Garcia | Ex Officio | No |

¹ Michael Li, Bureau Chief for the Bureau of Energy and Technology Policy replaced Mary Sotos as DEEP designee as of 10/21/2019.

² Steven Meier replaced Bettina Bronisz as Treasurer's designee as of 5/1/2020.

³ Lonnie Reed was appointed as Chair of the Green Bank by Gov. Lamont as of 10/10/2019.

⁴ Betsy Crum resigned effective 2/8/2020. Brenda Watson was appointed by Rep Aresimowicz on 2/9/2020.

Board of Directors

The Board of Directors of the Green Bank is comprised of eleven (11) ex officio and appointed voting members, and one (1) ex officio non-voting member. A quorum for a meeting of the Board of Directors is six (6) voting members at each meeting. Please note that the Board of Directors currently has ten (10) appointees and requires six (6) voting members for a quorum. The Green Bank is actively working with the Governor's Office to fill the vacant position.

The leadership of the Board of Directors, includes:

- Chair Lonnie Reed
- <u>Vice Chair</u>

 Mary Sotos, Deputy Commissioner of DEEP (voted in by her peers of the Green Bank Board of Directors)
- <u>Secretary</u> Matthew Ranelli, Partner at Shipman and Goodwin (voted in by his peers of the Green Bank Board of Directors)
- Staff Lead Bryan Garcia, President and CEO

For FY 2020, the Board of Directors of the Green Bank met nine (9) times, including seven (7) regularly scheduled meetings and two (2) special meetings (see Table 2).

Table 2. Summary of Board of Directors Meetings for FY 2020

| Date | Regular or Special Meeting | Attendees / % Attendance | # of Resolutions Approved ⁵ |
|-----------------------------|-------------------------------|--------------------------|---|
| July 18, 2019 ⁶ | Regular | 7 / 78% | 11 |
| September 12, 2019 | Special | 8 / 89% | 8 |
| October 25,2019 | Regular | 6 / 60% | 15 |
| November 20, 2019 | Special | 6 / 60% | 1 |
| December 20, 2019 | Regular | 9 / 90% | 3 |
| January 24, 2020 | Regular | 8 / 80% | 3 |
| March 25, 2020 ⁷ | Regular | 9 / 90% | 6 |
| April 24, 2020 | Regular | 8 / 80% | 5 |
| June 26, 2020 | Regular | 7 / 70% | 10 |
| Total | 2 Special Meetings | 75% | 9 |
| | 7 Regular Meetings | 78% | 53 |
| | 9 Total Meetings | 77% | 62 |

Overall, the attendance for each meeting established a quorum – 6 of the 10 (or 5 of the 9) voting members present – in order to enable business decisions, and on average there were 8 of 10 (or 7 of 9) members present at each meeting, of which, prior to COVID-19 shut-down, 5 attended on average by phone.

For a link to the materials from the Board of Directors meetings that is publicly accessible – <u>click here</u>.

Statement of Financial Interest

⁵ Excludes approval of meeting minutes and adjournment.

⁶ The 7/18/2019 & 9/12/2019 meetings were held with 9 BOD members (L. Reed's appointed on 10/10/2019).

⁷ Due to COVID-19 all BOD and Committee meetings held after 3/13/2020 were attended online.

It is required by state ethics laws that senior-level staff (i.e., Director level and above) and members of the Board of Directors annually file a Statement of Financial Interest (SFI). With respect to the 2019 SFI filing – required by July 1, 2020, with a 60 day extension being granted by the Connecticut Office of State Ethics (the "OSE") pursuant to Executive Order 7M – the OSE received the following from the Connecticut Green Bank (see Table 3):

Table 3. Summary of State of Financial Interest Filings with the Office of State Ethics for CY 2019

| | Number of SFIs Submitted | % Submitted on Time |
|--------------------|-----------------------------|---------------------|
| Senior Staff | 6 | 100% |
| Board of Directors | 8 | 100% |

Of the 14 SFI filings by Senior Staff and the Board of Directors, all were filed online. On July 15, 2020 the Office of State Ethics sent out their July newsletter in which they congratulated us for being one of only forty-seven agencies to earn "the distinction of not only achieving 100% timely compliance but also had 100% submit filings electronically".

Audit, Compliance and Governance Committee

The Audit, Compliance and Governance Committee (ACG Committee) of the Green Bank is comprised of three (3) ex officio and appointed voting members. A quorum for a meeting of the ACG Committee is three (3) voting members at each meeting. Note, that if there aren't enough voting members of the ACG Committee present at a meeting, then the Chair and/or Vice Chair of the Connecticut Green Bank can participate in the meeting to establish a quorum. The leadership of the ACG Committee, includes:

- <u>Chair</u> Matthew Ranelli, Partner and Shipman and Goodwin (designated as the Chair by the former Chair of the Board Catherine Smith)
- Members Tom Flynn and Mary Sotos/Mike Li
- Staff Lead Brian Farnen, CLO and General Counsel

For FY 2020, the ACG Committee of the Connecticut Green Bank met five (5) times, including 3 regularly scheduled meetings and two (2) special. (see Table 4).

Table 4. Summary of Audit, Compliance and Governance Committee Meetings for FY 2020

| Date | Regular or Special Meeting | Attendees / % Attendance | # of Resolutions Approved |
|-------------------------------|--|---|------------------------------|
| August 26, 2019 | Special | 28 / 67% | 0 |
| October 18, 2019 | Regular | 3 / 100% | 2 |
| October 25, 2019 ⁹ | Special | 3 / 100% | 2 |
| March 11, 2020 | Regular | 3 / 100% | 3 |
| May 19, 2020 | Regular | 3 / 100% | 2 |
| Total | 3 Regular Meetings 2 Special Meetings 5 total meetings | 3 / 100% 2 - 3 / 84% 3 / 92% | 7 2 9 |

⁸ Quorum was not established with only 2 members resent, no resolutions were voted on.

3

⁹ Lonnie Reed joined meetings on 10/25/2019; 3/11/2020; and 5/19/2020.

The attendance established a quorum with 3 voting members present – in order to enable business decisions, of which, prior to the COVID-19 shut-down, 80% attended on average by phone.

For a link to the materials from the ACG Committee meetings that is publicly accessible – <u>click here</u>.

Review of Governance Documents and Statutory Reporting
With respect to annual review of governance documents and statutory reporting, the following applies:

- Annual review by the ACG Committee of the Governance Documents (i.e., Bylaws, Operating Procedures, and Statement of Purpose) completed on March 11, 2020. Revisions to the Green Bank Bylaws were brought before the BOD and approved at the June 26, 2020 meeting to include the following:
 - Article I, Section 1.3 adding the purpose and function of the Green Bank;
 - o Article II, Section 2.5 adding Treasurer to the Board of Director positions;
 - Article II, Section 2.7 adding the requirement of Board of Director members to take an oath (including a sample oath), which is practiced, but not memorialized in the bylaws;
 - Article III, Section 3.6 and Article V, Sections 5.2 & 5.2.2 renaming the Budget and Operations Committee to the Budget, Operations, and Compensation Committee, while including additional responsibilities;
 - Article V, Section 5.2.3 based on the "Loan Loss Decision Framework and Process" approved by the Board of Directors on June 13, 2018, inclusion of additional language in the bylaws to reflect the importance of the establishment and modification of such process;
 - Article VII, Section 7.1 expanding Conflicts of Interest to include immediate family of the Board of Director members;
 - o Article IX adding "Restrictions on Directors and Employees Leaving Green Bank"; and
 - o Article XII, Section 12.1.4 adding "Clean Energy" to definitions
- Statutory Responsibilities and Reporting Checklist attached hereto as Exhibit A for continuous reporting tracking.

Budget Operations and Compensation Committee

Formerly known as the Budget and Operations Committee and effective as of June 26, 2020 with the revision to the Green Bank Bylaws, the committee's name was changed to the Budget Operations and Compensation Committee (BOC Committee) of the Green Bank to better reflect its full mission. The BOC is comprised of three (3) ex officio and appointed voting members. A quorum for a meeting of the BOC Committee is three (3) voting members at each meeting. Note, that if there aren't enough voting members of the BOC Committee present at a meeting, then the Chair and/or Vice Chair of the Green Bank can participate in the meeting to establish a quorum. BOD Chair Lonnie Reed chose to attend all BOC Committee meetings for FY20. The leadership of the BOC Committee, includes:

- <u>Chair</u> –John Harrity, Labor Union Representative (designated as the Chair by the former Chair of the Board Catherine Smith)
- <u>Members</u> –John Harrity, Mary Sotos, Commissioner of DEEP, Eric Brown (designated as a member of the Committee by BOD Chair)
- Staff Lead Eric Shrago, Managing Director of Operations

For FY 2020, the BOC Committee of the Green Bank met four (4) times, three (3) were regularly scheduled and one (1) was special (see Table 5).

Table 5. Summary of Budget Operations and Compensation Committee Meetings for FY 2020

| Date | Regular or Special Meeting | Attendees / % Attendance | # of Resolutions Approved |
|------------------|-------------------------------|--------------------------|------------------------------|
| January 10, 2020 | Regular | 4 / 100% | 1 |
| May 13, 2020 | Regular | 3 / 75% | 0 |
| June 10, 2020 | Regular | 4 / 100% | 0 |
| June 16, 2020 | Special | 4 / 100% | 2 |
| Total | 1 Special Meeting | 100% | 2 |
| | 3 Regular Meetings | 90% | 1 |
| | 4 Total Meetings | 95% | 3 |
| | | | |

Overall, the attendance for each meeting established a quorum –3 voting members present – in order to enable business decisions, and on average, with the attendance by Lonnie Reed, there were 4 members present at each meeting, of which, prior to the COVID-19 Shut-down, 50% attended by phone.

For a link to the materials from the BOC Committee meetings that is publicly accessible – click here.

Deployment Committee

The Deployment Committee of the Green Bank is comprised of four (4) ex officio and appointed voting members. A quorum for a meeting of the Deployment Committee is three (3) voting members at each meeting. Note, that if there aren't enough voting members of the Deployment Committee present at a meeting, then the Chair and/or Vice Chair of the Green Bank can participate in the meeting to establish a quorum. The leadership of the Deployment Committee, includes:

- <u>Chair</u>¹⁰ –Mary Sotos, Deputy Commissioner of DEEP/ Mike Li (designated as the Chair by the former Chair of the Board Catherine Smith)
- Members Bettina Bronisz¹¹ (ex officio per bylaws), Matthew Ranelli, and Betsy Crum¹² (designated as a member of the Committee by BOD Chair)
- Staff Lead Bryan Garcia, President and CEO, and Bert Hunter, EVP and CIO

For FY 2020, the Deployment Committee of the Green Bank met four (4) times, including three (3) regularly scheduled meetings (see Table 6).

¹⁰ Mike Li replaced Mary Sotos effective at the 5/27/2020 meeting.

¹¹ Steve Meier replaced Bettina effective at the 5/27/2020 meeting.

¹² With her appointment as Chair to the IPC Board, Betsy Crum effectively resigned from the Deployment. Committee. The committee met with 3 members until Binu Chandy replaced her effective at the 9/25/2019 meeting.

Table 6. Summary of Deployment Committee Meetings for FY 2020

| Date | Regular or Special Meeting | Attendees / % Attendance | # of Resolutions Approved |
|---------------------------------|-------------------------------|--------------------------|------------------------------|
| July 12, 2019 | Special | 3 / 75% | 3 |
| September 25, 2019 | Regular | 4 / 100% | 1 |
| February 27, 2020 ¹³ | Regular | 4 / 100% | 3 |
| May 27, 2020 | Regular | 5 / 100% | 1 |
| Total | 1 Special Meeting | 3 / 75% | 3 |
| | 3 Regular Meetings | 4 / 100% | 5 |
| | 4 Total Meetings | 4 / 100% | 8 |
| | | | |

Overall, the attendance for each meeting established a quorum – 3 of the 4 voting members present – in order to enable business decisions, and on average there were 4 members present at each meeting, of which, prior to the COVID-19 Shut-down, 90% attended by phone.

For a link to the materials from the Deployment Committee meetings that is publicly accessible – <u>click</u> <u>here</u>.

Joint Committee of the EEB and the CGB

Section 16-245m(d)(2) of the Connecticut General Statutes created a Joint Committee of the Energy Efficiency Board (EEB) and the Connecticut Green Bank. Per bylaws established and approved by the EEB and the Green Bank, the Joint Committee is comprised of four (4) appointed and voting members, one (1) ex officio and voting member, and four (4) ex officio and non-voting members. A quorum for a meeting of the Joint Committee is three (3) voting members at each meeting. The leadership of the Joint Committee, includes:

- <u>Chair</u> Eric Brown, Attorney with CBIA (voted in by his peers of the EEB and the Connecticut Green Bank)
- <u>Vice Chair¹⁴</u> Mary Sotos, DEEP (voted in by her peers of the EEB and the Connecticut Green Bank)
- <u>Secretary</u> Bryan Garcia, Connecticut Green Bank, and Craig Diamond, Connecticut Energy Efficiency Fund (voted in by their peers of the EEB and the Connecticut Green Bank)
- <u>Members</u>¹⁵ Bryan Garcia (non-voting), Bert Hunter (non-voting), John Harrity (designated as member of the Committee by BOD Chair), and Brenda Watson (designated as member of the Committee by BOD Chair)
- Staff Lead Bryan Garcia, President and CEO of the Connecticut Green Bank

For FY 2020, the Joint Committee of the EEB and the Green Bank met three (3) times, including three (3) regularly scheduled meetings (see Table 7).

¹³ Lonnie Reed joined meetings on 2/27/2020 & 5/27/2020.

¹⁴ Mike Li replaced Mary Sotos effective at the 12/18/2019 meeting.

¹⁵ Note – these 3 members are representatives from the Connecticut Green Bank.

Table 7. Summary of Joint Committee Meetings for FY 2020

| Date | Regular or | Attendees / % Attendance | | | | |
|-----------------------------|-------------------------------------|--------------------------|------------------|--|--|--|
| | Special Meeting | Voting | Non-voting (CGB) | | | |
| July 17, 2019 | Regular | 3 / 75% | 4 / 100% | | | |
| December 18, 2019 | Regular | 4 / 100% | 4 / 100% | | | |
| June 17, 2020 ¹⁶ | Regular | 4 / 100% | 4 / 100% | | | |
| Total | 4 Regular Meetings 4 Total Meetings | 3/ 88% | 1-2 / 75% | | | |

Overall, the attendance for each meeting established a quorum -3 of the 4 voting members present - in order to enable business decisions, and on average there were 3-4 members present at each meeting, of which, prior to the COVID-19 Shut-down, 15% attended on average by phone.

For a link to the materials from the Joint Committee meetings that is publicly accessible – <u>click here</u>.

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¹⁶ Lonnie Reed attended in place of John Harrity.

Exhibit A

| | | | | | [| | 1 | | | | | | I | | | | | | | | |
|-------------|------------|---------------|-----------|----------|------------|--------|-----------|---------------------------------------|----------|---------------|--------------|---------------------------------|----------|----------------|---------|----------|---------|--|---------|-----------|-----------|
| Quarterly | Cook Flour | Quarterly Hun | B | · | 1-123 | DECELA | Bonding | CORE NA | | RSIP | | | I Damant | Board Meetings | | | | OpenCT Ch | | Board D | St |
| Quarter End | | Quarter End | Submitted | Due Sec. | Submitted | Due | Submitted | SCRF Notice Reason Required Submitted | | Due Submittee | | Annual Report ed Due Submitted | | | | Held | Туре | Data to Comptroller Requested by Delivered | | | Submitted |
| 9/30/13 | 3/14/14 | 10/1/13 | 6/17/14 | | 12/30/2014 | 1/1/13 | 2/8/13 | CSCU deal | 12/1/17 | 1/1/2014 | Jubilitieu | 1/1/15 | 12/30/14 | 12/16/15 | regular | 1/26/18 | regular | 1/15/19 | 1/10/19 | | 9/25/2019 |
| 12/31/13 | 3/14/14 | 1/1/14 | 6/17/14 | | 12/31/2015 | 1/1/14 | 1/15/14 | CSCU, Meriden | | | 1/30/2017 | 1/1/16 | 12/31/15 | 1/15/16 | regular | 2/15/18 | special | 2/1/20 | 1/31/20 | 10/1/2015 | 3/23/2013 |
| 3/31/14 | 4/21/15 | 4/1/14 | 6/17/14 | | 12/29/2016 | 1/1/15 | 3/15/15 | CSCU, Meriden | | | 1/11/2019 | 1/1/17 | 10/17/16 | 2/26/16 | special | 4/3/18 | regular | 2/1/20 | 1/31/20 | | |
| 6/30/14 | 4/21/15 | 7/1/14 | 8/5/14 | | 12/27/2017 | 1/1/16 | 12/23/15 | coco, meriden | 12/00/13 | | unset 1/1/20 | 1/1/18 | 12/1/17 | 3/3/16 | special | 4/27/18 | regular | | | | |
| 9/30/14 | 6/16/16 | 10/1/14 | 10/2/14 | | 12/31/2018 | 1/1/17 | 12/15/16 | | | r rogramo | 1 | 1/1/19 | 1/11/19 | 4/22/16 | regular | 5/25/18 | special | | | | |
| 12/31/14 | 6/16/16 | 1/1/15 | 1/12/15 | | 12/31/2019 | 1/1/18 | 12/1/17 | | | | | 1/1/20 | 12/27/19 | 6/17/16 | regular | 6/13/18 | regular | | | | |
| 3/31/15 | 6/16/16 | 4/1/15 | 4/12/15 | -, -, | | 1/1/19 | 12/31/18 | | | | | -, -, | ,, | 7/6/16 | special | 6/28/18 | regular | | | | |
| 6/30/15 | 6/16/16 | 7/1/15 | 7/9/15 | | | 1/2/19 | 12/30/19 | | | | | | | 7/22/16 | regular | 7/27/18 | regular | | | | |
| 9/30/15 | 5/31/16 | 10/1/15 | 10/9/15 | | | -/-/ | ,, | | | | | | | 10/21/16 | regular | 8/21/18 | special | | | | |
| 12/31/15 | 5/31/16 | 1/1/16 | 1/8/16 | | | | | | | | | | | 12/16/16 | regular | 9/18/18 | special | | | | |
| 3/31/16 | 5/31/16 | 4/1/16 | 3/31/16 | | | | | | | | | | | 1/5/17 | special | 10/26/18 | regular | | | | |
| 6/30/16 | 8/10/16 | 7/1/16 | 7/5/16 | | | | | | | | | | | 1/20/17 | regular | 12/14/18 | regular | | | | |
| 9/30/16 | 11/8/16 | 10/1/16 | 10/5/16 | | | | | | | | | | | 3/10/17 | special | 2/22/19 | regular | | | | |
| 12/31/16 | 2/23/17 | 1/1/17 | 2/21/17 | | | | | | | | | | | 4/28/17 | regular | 3/29/19 | regular | | | | |
| 3/31/17 | 5/10/17 | 4/1/17 | 4/10/17 | | | | | | | | | | | 6/9/17 | special | 4/26/19 | regular | | | | |
| 6/30/17 | 8/9/17 | 7/1/17 | 7/17/17 | | | | | | | | | | | 6/23/17 | regular | 6/28/19 | regular | | | | |
| 9/30/17 | 12/21/17 | 10/1/17 | 10/6/17 | | | | | | | | | | | 7/21/17 | regular | 7/18/19 | regular | | | | |
| 12/31/17 | 2/28/18 | 1/1/18 | 1/9/18 | | | | | | | | | | | 9/28/17 | regular | 9/12/19 | regular | | | | |
| 3/31/18 | 5/17/18 | 4/1/18 | 4/2/18 | | | | | | | | | | | 10/3/17 | special | 10/25/19 | regular | | | | |
| 6/30/18 | 9/5/18 | 7/1/18 | 7/5/18 | | | | | | | | | | | 10/20/17 | regular | 11/20/19 | special | | | | |
| 9/30/18 | 11/28/18 | 10/1/18 | 10/3/18 | | | | | | | | | | | 11/6/17 | special | 12/20/19 | regular | | | | |
| 12/31/18 | 7/11/19 | 1/1/19 | 1/3/19 | | | | | | | | | | | 11/13/17 | special | 1/24/20 | regular | | | | |
| 3/31/19 | 9/23/19 | 4/1/19 | 4/1/19 | | | | | | | | | | | 12/1/17 | special | 3/25/20 | regular | | | | |
| 6/30/19 | 9/23/19 | 7/1/19 | 7/1/19 | | | | | | | | | | | 12/15/17 | regular | 4/24/20 | regular | | | | |
| 9/30/19 | 12/27/19 | 10/1/19 | 10/1/19 | | | | | | | | | | | | | 6/26/20 | regular | | | | |
| 12/31/19 | 3/26/20 | 1/1/20 | 1/3/20 | | | | | | | | | | | | | | | | | | |
| 3/31/20 | 6/22/20 | 4/1/20 | 4/3/20 | | | | | | | | | | | | | | | | | | |
| 6/30/20 | | 7/1/20 | 7/7/20 | | | | | | | | | | | | | | | | | | |
| | | 10/1/20 | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1 | | | | | | | | | | | | | | | |

| CONNECTICUT GREEN BANK BOARD OF DIRECTORS APPOINTMENTS | | | | | | | | | |
|--|---|------------------------------------|--|----------------|------------------------|--|----------------------------|---|--|
| Appointing Authority | Requirements | Appointee | Organization / Appointee | Date Appointed | / Statutory Term | Specified Term Date | Expiration Date | Notes | |
| Governor (Finance) | One person with experience in the finance of renewable energy | Kevin Walsh | GE (Finance of Renewable Energy) / Gov | 9/2/14 | 2 years, then 4 years* | 9/2/14 appointment letter from Gov. Malloy. Term ends 6/30/18, or until a sucessor has qualified. | 6/30/2018** | Focus here in FY 2019 | |
| Minority Leader of House | One person with experience in investment fund management | Eric Brown | CBIA (Invest Fund Mgmt) / Minority Leader House of Rep | 8/3/17 | 3 years, then 4 years* | 8/3/2017 appointment letter from Rep Themis Klarides. Term ends 6/30/21. | 6/30/2021 | | |
| Speaker of the House | One person respresenting a residential or low-income group One person with experience in the | Brenda Watson Regina McCarthy - | Operation Fuel (Residential Low Income) / Speaker House of Reps (Finance of Renewable Energy) / | 2/10/20 | 4 years, then 4 years* | 2/9/2020 appointment letter from Speaker of the House Joe Aresimpwicz. Term ends 6/30/23, or until a sucessor has been appointed & qualified. | 6/30/2023, per Appt Ltr | Statute states appointment should be for 4 years. | |
| Governor (Finance) | finance of renewable energy | Vacant | Gov | | 2 years, then 4 years* | | | | |
| Governor (R&D) | A representative who shall have experience in research & development or manufacturing of clean energy | Lonnie Reed | Former EPA Administrator (R&D, Manf Clean Energy) / Gov | 10/10/19 | 4 years* | 10/10/2019 appointment letter from Gov. Term ends 10/9/2023 or until a sucessor is appointed & qualified. | 10/9/2023** | | |
| President Pro Tempore of Senate | One person representing an environmental organization | Matt Ranelli (Secretary) | Shipman & Goodwin (Environmental Org) / Senate Pro Tem | 11/9/15 | 4 years, then 4 years* | from Senate President Pro Tempore, Martin Looney. Term ends 6/30/2019. | 6/30/2019 | | |
| Governor (Labor) | A representative of organized labor | John Harrity | CT State Council of Machinists (Labor) / Governor | 6/2/15 | 4 years, then 4 years* | 6/2/15 reappointment letter from Gov Malloy. Term ends 6/30/2019, or until a sucessor has been appointed & qualified. | 6/30/2019** | | |
| Minority Leader of Senate | One person with experience in the finance or deployment of renewable energy | Tom Flynn | Town of Fairfield (Finance or Deploymnet Renewable Energy) / Min Leader Senate | 7/21/15 | 4 years, then 4 years* | 7/21/15 appointment letter from Senate Minority Leader Len Fasano. Term ends 6/30/19 | 6/30/2019 | | |
| Statute (PA11-80) | Comissioner of DECD or designee | Binu Chandy | DECD | 9/13/2011 | ex officio | ex officio | 12/31/2099 | Designated Binu Chandy - Letter dated 2/21/2019 on file. | |
| Statute (PA11-80) | Commissioner of DEEP or designee | Mike Li | DEEP | not required | ex officio | ex officio | 12/31/2099 | Designated Mike Li - letter dated 10/21/2019 on file. | |
| Statute (PA11-80) | Treasurer or designee | Denise Nappier (Steve Meier) | Office of the State Treasurer | 8/3/2011 | ex officio | ex officio | 12/31/2099 | Designated Steve Meier - letter dated 5/01/2020 on file. | |
| Green Bank President | The President of the Green Bank | Bryan T. Garcia | CT Green Bank President | | ex officio | ex officio | 12/31/2099 | | |

 $^{^{\}star}$ 4 years from the first day of July in the year of his/her appointment.

^{**} Or until a sucessor is named

CONNECTICUT GREEN BANK RESOLUTION OF PURPOSE

PURSUANT TO

Section 16-245n of the Connecticut General Statutes

As Revised and Adopted on September 29, 2011

In accordance with Section 16-245n(d)(1) of the Connecticut General Statutes, the Board of Directors of the Connecticut Green Bank ("Green Bank") hereby adopts this resolution of purposes.

The Connecticut General Assembly has found and determined that stimulating, supporting and increasing the use of clean energy, investment in clean energy projects and sources, demand for clean energy, the development of technologies that support clean energy, and the development of the state's energy-related economy are important state policy objectives. To achieve those objectives, the General Assembly, among other things, created the Connecticut Green Bank.

The purposes of the Green Bank are to achieve the foregoing objectives to the fullest extent authorized or permitted by Section 16-245n of the Connecticut General Statutes, as amended, or any other provisions of the Connecticut General Statutes pertaining to the responsibilities or activities of the Green Bank. Such purposes include but are not limited to: (1) implementing the Comprehensive Plan developed by the Green Bank pursuant to Section 16-245n(c) of the Connecticut General Statutes, as amended; (2) developing programs to finance and otherwise support clean energy investment in residential, municipal, small business and larger commercial projects, and such others as the Green Bank may determine; (3) supporting financing or other expenditures that promote investment in clean energy sources to foster the growth, development, and commercialization of clean energy sources and related enterprises; and (4) stimulating demand for clean energy and the deployment of clean energy sources within the state that serve end-use customers in the state.

For the Green Bank's purposes, "clean energy" has the meaning as provided in Connecticut General Statutes Section 16-245n(a), as amended from time to time.

The Green Bank may seek to qualify as a Community Development Financial Institution under Section 4702 of the United States Code. If approved as a Community Development Financial Institution, then the Green Bank would be treated as a qualified community development entity for purposes of Section 45D and Section 1400N(m) of the Internal Revenue Code.

CONNECTICUT GREEN BANK

BYLAWS

PURSUANT TO

Section 16-245n of the Connecticut General Statutes

Adopted: October 17, 2015

Revised: June 26, 2020

ARTICLE I

NAME, PLACE OF BUSINESS

- 1.1. Name of the Green Bank. The name of the Green Bank shall be, in accordance with the Statute, the "Connecticut Green Bank".
- 1.2. **Office of the Green Bank**. The office of the Green Bank shall be maintained at such place or places within the State of Connecticut as the Board may designate.
 - 1.3. **Green Bank Purpose and Function.** As stated in its Resolution of Purpose adopted on September 29, 2011, the purpose of the Green Bank is to stimulate, support and increase the use of clean energy, investment in clean energy projects and sources, demand for clean energy, the development of technologies that support clean energy, and the development of the state's energy-related economy and to mitigate the impact of climate change.

The function of the Green Bank is to achieve the foregoing objectives to the fullest extent authorized or permitted by Section 16-245n of the Connecticut General Statutes, as amended, or any other provisions of the Connecticut General Statutes pertaining to the responsibilities or activities of the Green Bank. Such functions include but are not limited to: (1) implementing the Comprehensive Plan developed by the Green Bank pursuant to Section 16-245n(c) of the Connecticut General Statutes, as amended; (2) developing programs to finance and otherwise support clean energy investment in residential, municipal, small business and larger commercial projects, and such others as the Green Bank may determine; (3) supporting financing or other expenditures that promote investment in clean energy sources to foster the growth, development, and commercialization of clean energy sources and related enterprises; and (4) stimulating

demand for clean energy and the deployment of clean energy sources within the state that serve end-use customers in the state.

ARTICLE II BOARD OF DIRECTORS

- 2.1. **Powers**. The powers of the Green Bank are vested in and exercised by a Board of Directors which may exercise all such authority and powers of the Green Bank and do all such lawful acts and things as are necessary to carry out the Comprehensive Plan and the purposes of the Green Bank as provided in the Resolution of Purposes, or as are otherwise authorized or permitted by the Statute or other provisions of the General Statutes, including the authorization of expenditures and use of funds from the Clean Energy Fund created by Section 16-245n(c) of the General Statutes, formerly known as the Renewable Energy Investment Fund, and the Green Connecticut Loan Guaranty Fund created by Section 16a-40f(b) of the General Statutes.
- 2.2. Chairperson. The Chairperson of the Board shall be appointed by the Governor. The Chairperson shall perform the duties imposed by the Statute, these Bylaws, and by resolution of the Board, and shall preside at all meetings of the Board which he or she attends. At each meeting the Chairperson shall submit such recommendations and information as the Chairperson may consider appropriate concerning the business, affairs, and policies of the Green Bank. The Chairperson shall serve at the pleasure of the Governor but no longer than the term of office of the Governor or until the Chairperson's successor is appointed and qualified, whichever is longer.

- 2.3. Vice Chairperson. The Board shall elect from its members a Vice Chairperson. The Vice Chairperson shall perform the duties imposed by the Statute, these Bylaws, and by resolution of the Board. In the absence or incapacity of the Chairperson, the Vice Chairperson shall perform all the duties and responsibilities of the Chairperson. In the absence or incapacity of the Vice Chairperson, or in case of his or her resignation or death, the Board shall elect its members an acting Vice Chairperson during the time of such absence or incapacity or until such time as the Board shall elect a new Vice Chairperson. The Vice Chairperson shall serve until a successor is elected by the Board.
- 2.4. Secretary. A Secretary may be elected by the Board. The Secretary shall perform the duties imposed by the Statute, these Bylaws, and by resolution of the Board. In the absence or incapacity of the Secretary, or in case of a resignation or death, the Board shall elect from their number an acting Secretary who shall perform the duties of the Secretary during the time of such absence or incapacity or until such time as the Board shall elect a new Secretary. The Secretary shall serve until a successor is elected by the Board.
- 2.5. Treasurer. A Treasurer may be elected by the Board and shall serve as an ex officio member of the Budget, Operations and Compensation Committee and the Audit, Compliance and Governance Committee with the primary responsibility of general financial oversight of the fiscal condition of the Green Bank. The Treasurer shall perform the duties imposed by the Statute, these Bylaws, and by resolution of the Board. In the absence or incapacity of the Treasurer, or in case of a resignation or death, the Board shall elect from their number an acting Treasurer who shall perform the duties of the Treasurer during the time of such absence or incapacity or until such time as the Board

shall elect a new Treasurer. The Treasurer shall serve until a successor is elected by the Board.

- 2.6. Delegation of Powers. The Board may, by resolution, delegate to the President or other officers of the Green Bank such powers of the Green Bank as they believe are necessary, advisable, or desirable to permit the timely performance of the functions of the Green Bank and to carry out the plans, policies, procedures, and decisions of the Board, except that such delegation shall not include any duties or responsibilities required by the Statute or these Bylaws to be performed by the Chairperson or the Board or otherwise in conflict with law.
- 2.7. **Directors**. The Directors shall be appointed and serve as provided in the Statute. Each prospective Director will take an oath to the Board prior to commencing service as set forth below:

GREEN BANK OFFICIAL OATH

YOU DO SOLEMNLY SWEAR THAT YOU WILL SUPPORT THE CONSTITUTION OF THE
UNITED STATES, AND THE CONSTITUTION OF THE STATE OF CONNECTICUT; AND
THAT YOU WILL FAITHFULLY DISCHARGE, ACCORDING TO LAW, THE DUTIES OF A
DIRECTOR OF THE CONNECTICUT GREEN BANK, INCLUDING ALL GOVERNANCE AND
ETHICAL OBLIGATIONS, TO THE BEST OF YOUR ABILITIES; SO HELP YOU GOD.

ARTICLE III OFFICERS AND EMPLOYEES

3.1. **Officers**. The Board shall have the power to create positions for such officers as it may deem to be in the interests of the Green Bank, and shall define the powers and duties of

- all such officers. All such officers shall be subject to the orders of the Board and serve at its pleasure. Such officers shall include a President and may include a Director of Finance and Chief Investment Officer, a General Counsel and such other officers as the Board may determine to be appropriate. The Board shall be responsible for determining or approving compensation for each officer.
- 3.2. **President**. The Board shall hire a President. The President shall be the chief executive officer of the Green Bank and shall have such duties and responsibilities as may be determined by the Board, except that the duties and responsibilities of the office of President shall not include those required by the Statute or these Bylaws to be performed by the Chairperson or the Board or otherwise in conflict with law. The President shall be a non-voting, *ex officio* member of the Board pursuant to the Statute. The Board may delegate to such other person or persons all or part of the duties of the President. The President may, with the approval of the Board, assign or delegate to the officers and employees of the Green Bank any of the powers that, in the opinion of the President, may be necessary, desirable, or appropriate for the prompt and orderly transaction of the business of the Green Bank.
- 3.3. **Acting President**. The Board may, by resolution adopted by a majority vote, appoint some other person to serve as Acting President and perform the duties of the President in the event of the death, inability, absence, or refusal to act of the President. The Acting President shall be subject to all of the same restrictions placed upon the President.
- 3.4. **Chief Investment Officer**. The Board may appoint a Chief Investment Officer (CIO).

 The CIO shall have such duties and responsibilities as may be determined by the Board, except that the duties and responsibilities of the office of CIO shall not include those

- required by the Statute or these Bylaws to be performed by the Chairperson or the Board or otherwise in conflict with law. The CIO shall not be a Director.
- 3.5. **General Counsel**. The Board may appoint a General Counsel. The General Counsel shall be the chief legal officer of the Green Bank and shall have such duties and responsibilities as may be determined by the Board, except that the duties and responsibilities of the office of General Counsel shall not include those required by the Statute or these Bylaws to be performed by the Chairperson or the Board or otherwise in conflict with law. The General Counsel shall not be a Director.
- 3.6. Additional Officers and Other Personnel. The Green Bank may from time to time employ such other personnel as it deems necessary to exercise its powers, duties, and functions pursuant to the Statute and any and all other laws of the State of Connecticut applicable thereto. The President shall develop a staffing plan which shall include without limitation a chart of positions and position descriptions for the Green Bank, personnel policies and procedures, and related compensation levels. Such staffing plan may provide for officers of the Green Bank in addition to those specifically provided for in these Bylaws, and the appointment of such officers shall be in the discretion of the President, except as the Board may otherwise determine. The President shall deliver the staffing plan to the Budget, Operations, and Compensation Committee for its review and approval pursuant to Article V, Section 5.3.2 hereof.
- 3.7. **Signature Authority; Additional Duties**. The President and officers of the Green Bank shall have such signature authority as is provided in the Green Bank's Operating Procedures, and as may from time to time be provided by resolution of the Board. The

officers of the Green Bank shall perform such other duties and functions as may from time to time be required.

ARTICLE IV BOARD MEETINGS

- 4.1. **Regular Meetings**. Regular meetings of the Board or any Committee for the transaction of any lawful business of the Green Bank shall be held in accordance with a schedule of meetings established by the Board or such Committee, provided that the Board shall meet at least six (6) times per fiscal year through either a regularly scheduled or special meeting.
- 4.2. **Special Meetings**. The Chairperson may, when the Chairperson deems it expedient, call a special meeting of the Board for the purpose of transacting any business designated in the notice of such meeting. The Committee Chair of any Committee may, when the Committee Chair deems it expedient, call a special meeting of such Committee for the purpose of transacting any business designated in the notice of such meeting.
- 4.3. Legal Requirements. All meetings of the Board or any Committee shall be noticed and conducted in accordance with the applicable requirements of the Statute and the Connecticut Freedom of Information Act, including without limitation applicable requirements relating to the filing with the Secretary of the State of any schedule of regular meetings and notices of special meetings, meeting notices to Directors and Committee members, public meeting requirements, the filing and public availability of meeting agenda, the recording of votes and the posting or filing of minutes, the addition of agenda items at any regular meeting, and the holding of any executive session.

4.4. **Order of Business**. The order of business of any meeting of the Board or any Committee shall be as set forth in the agenda for such meeting, provided that the Board or Committee may vary the order of business in its discretion.

4.5. **Organization**.

- 4.5.1. At each meeting of the Board, the Chairperson, or in the absence of the Chairperson, the Vice Chairperson, or in the absence of both, a Director chosen by a majority of the Directors then present, shall act as Presiding Officer. The Secretary, or a staff member designated by the President, shall prepare or direct the preparation of a record of all business transacted at such meeting. Such record when adopted by the Directors at the next meeting and signed by the Chairperson or the Secretary shall be the official minutes of the meeting.
- 4.5.2. At each meeting of a Committee, the Committee Chair, or in the absence of the Committee Chair any other Committee member designated by the majority of the Committee members then present, shall act as Presiding Officer. The President, a staff member designated by the President, or any Committee member chosen by the Presiding Officer, shall prepare or direct the preparation of a record of the business transacted at such meeting. Such record when adopted by a majority of the Committee members in attendance at the next meeting and signed by the Committee Chair shall be the official minutes of the Committee meeting.
- 4.6. **Attendance**. A Director or a member of a Committee may participate in a meeting of the Board or of such Committee by means of teleconference, videoconference, or similar communications equipment enabling all Directors and Committee members participating

in the meeting to hear one another, and participation in a meeting pursuant to this Section shall constitute presence in person at such a meeting. Directors or their designees who miss more than three (3) consecutive meetings shall be asked to become more active on the Board. In the event of further absence, the Board may decide by majority vote to recommend to the appointing authority that the appointment be reconsidered.

4.7. **Quorum**.

- 4.7.1. A majority of the Directors then in office shall constitute a quorum for the transaction of any business or the exercise of any power of the Green Bank.
- 4.7.2. A majority of the Director-members of a Committee shall constitute a quorum, provided that, except in the case of an advisory committee, such quorum shall consist of a minimum of three (3) Directors, at least one (1) of which shall not be a State employee.
- 4.8. **Enactment**. When a quorum is present, an affirmative vote of a majority of Directors in attendance at Board or Committee meetings shall be sufficient for action, including the passage of any resolution, except as may otherwise be required by these Bylaws or applicable law. Non-Director members of any Committee may participate in the Committee's discussions and deliberations and may join in the Committee's recommendations to the Board, but shall not have a vote on any matters as to which the Committee is exercising the powers of the Board, including without limitation, any funding decisions.
- 4.9. **Designation of Substitutes for Directors**. If authorized by the Statute, then a Director may appoint a designee to serve as the Director's representative on the Board with full power to act and to vote on that Director's behalf. For the purposes of maintaining

consistency and efficiency in Board matters, alternating attendance between the Director and his or her designee is strongly discouraged. If not authorized by statute, then a Director may not name or act through a designee. An authorized appointment of a designee shall be made by filing with the Board a short bio of the designee, the designee's CV, and a certificate substantially similar to the following:

"Certificate of Designation

| I,, a member | of the Board of Directors of the |
|--|--|
| Connecticut Green Bank, do hereby designate _ | [Name & Title] to |
| represent me at the meetings of the Board or cor | nmittees thereof with full powers to act |
| and vote on my behalf. This designation shall be | effective until expressly revoked in |
| writing. | |

[Name]"

ARTICLE V COMMITTEES

- 5.1. **Delegation Generally**. The Board may delegate any and all things necessary or convenient to carry out the purposes of the Green Bank to three (3) or more Directors, provided that at least one (1) of which shall not be a State employee, and, to the extent of powers, duties, or functions not by law reserved to the Board, to any officer or employee of the Green Bank as the Board in its discretion shall deem appropriate.
 - 5.1.1. Appointments; Quorum; Transaction of Business; Recordkeeping.

- 5.1.2. Appointments. The Chairperson shall appoint all Committee Chairs. The Committee Chair need not be a Director on the Deployment Committee any ad hoc committee, or an advisory committee.
- 5.1.3. Quorum. If necessary to achieve a quorum at any meeting of a Committee other than an advisory committee, then the Chairperson or the Vice Chairperson may sit, participate, and vote as an alternate member of such committee at such meeting.
- 5.1.4. **Report of Committee Actions**. Each Committee shall report to the Board on such Committee's actions and activities at the Board meeting next following each Committee meeting.
- 5.1.5. Recordkeeping. Committee recordkeeping shall be in accordance with ArticleIV, Section 4.5.2 hereof.
- 5.2. Standing Committees. The Green Bank shall have four (4) Standing Committees of the Board consisting of an Audit, Compliance, and Governance Committee, a Budget, Operations, and Compensation Committee, a Deployment Committee, and a Joint Committee of the Energy Conservation Management Board and the Connecticut Green Bank. Each Standing Committee may form subcommittees in its discretion, but no such subcommittee shall exercise powers of the Board unless authorized by the Board to do so.
 - 5.2.1. Audit, Compliance, and Governance Committee. The Audit, Compliance, and Governance Committee shall consist of no less than three (3) Directors appointed by the Chairperson on a biennial basis, at least one (1) of which shall not be a State employee. The principal functions, responsibilities, and areas of cognizance of the Audit, Compliance, and Governance Committee shall be as

follows: (i) recommendation to the Board as to the selection of auditors; (ii) meetings with the auditors to review the annual audit and formulation of an appropriate report and recommendations to the Board with respect to the approval of the audit report; (iii) review of the audit and compliance findings of the Auditors of Public Accounts, and meetings with the staff auditors there as appropriate; (iv) review with the auditors, President, and senior finance staff of the adequacy of internal accounting policies, procedures and controls; (v) review of the sufficiency of financial and compliance reports required by statute; (vi) recommendation to the Board as to the selection of the Green Bank's ethics liaison and ethics compliance officer(s); (vii) review of the adequacy of employee education and training on ethics and related legal requirements; (viii) review and approval of, and in its discretion recommendations to the Board regarding, all governance and administrative matters affecting the Green Bank, including but not limited to matters of corporate governance, corporate governance policies, committee structure and membership, management qualifications and evaluation, and Board and Standing Committee self-evaluation; (ix) oversight of the Green Bank's legal compliance programs, including but not limited to compliance with state contracting and ethics requirements; (x) management succession planning; (xi) oversight of any Director conflict of interest matters; (xii) as-needed review of any staff recommendations to the Board regarding the Green Bank's regulatory or policy initiatives including but not limited to the Comprehensive Plan and other clean energy regulatory or policy evidentiary matters before the Public

Utilities Regulatory Authority and other state and federal commissions and tribunals that may affect clean energy development and/or the Green Bank's statutory mandate; (xiii) acting as a resource to the appointing authorities with respect to the identification and recruitment of qualified and interested private sector Director candidates; and (xvi) the exercise of such authority as may from time to time be delegated by the Board to the Audit, Compliance, and Governance Committee within its areas of cognizance.

5.2.2. **Budget, Operations, and Compensation Committee.** The Budget,

Operations, and Compensation Committee shall consist of no less than three (3) Directors appointed by the Chairperson on a biennial basis, at least one (1) of which shall not be a State employee. Additionally, the Chairperson or the Vice Chairperson shall be a non-voting ex officio member of the committee, subject to the provisions of Article V, Section 5.2.2 hereof. The principal functions, responsibilities, and areas of cognizance of the Budget, Operations, and Compensation Committee shall be as follows: (i) to recommend and monitor compliance with prudent fiscal policies, procedures, and practices to assure that the Green Bank has the financial resources and financial strategy necessary to carry out its statutory responsibilities and mission, including oversight of the Green Bank's budget process, asset and liability management, asset risk management, insurance and loss prevention, and performance measurement; (ii) recommendation to the Board as to approval of the annual operating budget and plan of operation; (iii) oversight of space planning and office leases, systems, and equipment, and procedures and practices with respect to purchasing; (iv) to

recommend the establishment of and monitor compliance with policies, programs, procedures, and practices to assure optimal organizational development,, the recruitment and retention of qualified personnel and the just and fair treatment of all employees of the Green Bank, including employment policies and practices, employee training, development, evaluation and advancement, employee compensation and benefits, and matters of employee separation and severance; (v) recommend the adoption of a formal compensation philosophy, (vi) annually review compensatory time to assure compliance with Green Bank's policy; (vii) annually review paid or reimbursable education assistance to assure compliance with Green Bank's policy; (viii) review and approval of the Green Bank staffing plan as developed by the President; (ix) with respect to reallocation of amounts between approved budget line items in excess of ten thousand dollars (\$10,000) but not exceeding seventy-five thousand dollars (\$75,000) in total, approval of such reallocation; (x) with respect to increases to the operating budget or unbudgeted disbursements in amounts in excess of ten thousand (\$10,000) but not exceeding seventy-five thousand (\$75,000), approval of such increases; and (xi) the exercise of such authority as may from time to time be delegated by the Board to the Budget, Operations, and Compensation Committee within its areas of cognizance.

5.2.3. **Deployment Committee**. The Deployment Committee shall consist of no more than six (6) members total, consisting of no less than three (3) Directors and up to three (3) non-Directors, all appointed by the Chairperson on a biennial basis,

and at least one (1) of the Director-members shall not be a State employee. Additionally, the State Treasurer, or her or his designee, shall be a voting ex officio member of the committee. Additionally, the Chairperson or the Vice Chairperson shall be a non-voting ex officio member of the committee, subject to the provisions of Article V, Section 5.2.2 hereof. The non-Director members of the Deployment Committee shall each have expertise in such areas as: project finance, levelized cost of clean energy, investment banking, commercial lending, tax-exempt or tax-advantaged financing or municipal banking, or clean energy policy. The principal functions, responsibilities, and areas of cognizance of the Deployment Committee shall be as follows: (i) to recommend and monitor compliance with program, project, and investment guidelines, criteria, policies, and practices supporting the Green Bank's statutory mission and management of such by the Green Bank's professional staff; (ii) with respect to loans, loan guarantees, loan loss reserves, credit enhancements, debt support programs, debt, debt-like, grants, equity, near-equity, and related measurement and verification studies and evaluation audit funding requests, including but not limited to the Residential Solar program, the Combined Heat and Power pilot program, the Anaerobic Digestion pilot program, and the Condominium Renewable Energy grant program, between five hundred thousand dollars (\$500,000) and two million five hundred thousand dollars (\$2,500,000), evaluation and approval of such requests on behalf of the Board so long as such approval is within the Green Bank's approved Operations and Program Budget; (iii) with respect to loans, loan guarantees, loan loss reserves, credit

enhancements, debt support programs, debt, debt-like, grants, equity and nearequity funding requests which exceed two million five hundred thousand dollars (\$2,500,000), evaluation of such requests and recommendation to the Board regarding such requests; (iv) oversight of policies and practices relating to the evaluation and recommendation of initial investments, follow-on investments, investment modifications and restructurings, and the sale or other disposition of investments by the Green Bank's professional investment staff; (v) oversight of policies and practices relating to investment management by the Green Bank's professional investment staff, including implementation of investment exit strategies; (vi) except to the extent of any investment powers expressly reserved to the Board itself in any resolution of the Board, to approve on behalf of the Board investments, follow-on investments, investment modifications and restructurings, and the sale or other disposition of investments; (vii) to review and recommend to the Board the issuance of bonds, notes or other obligations of the Green Bank, and upon such approval, to sell, issue and deliver such bonds, notes or obligations on behalf of the Green Bank; (viii) on a periodic basis, but not less frequently than annually, to review and recommend to the Board the establishment and modification of a provision for losses with respect to loans, loan guarantees, loan loss reserves, credit enhancements, debt support programs, debt, debt-like instruments, and any other extensions of credit or the undertaking of risk where it is determined the Green Bank (a) may not recover its investment of capital or its expected rate of return, (b) is contractually or otherwise obligated to pay or commit additional Green Bank capital to such

transactions without a reasonable expectation for the return of such capital, or

(c) is for any other reason more likely than not to suffer a loss due to an

investment or program and (ix) the exercise of such other authority as may from
time to time be delegated by the Board to the Deployment Committee within its
areas of cognizance.

- 5.2.4. Joint Committee of the Energy Conservation Management Board and the Connecticut Green Bank. The Standing Committee Related to the Joint Committee of the Energy Conservation Management Board and the Board of Directors of the Green Bank shall consist of no more than (2) voting Directors and (2) nonvoting members who shall be appointed by the Chairperson on a biennial basis to serve on both this Standing Committee and the Joint Committee. Said Directors of this Standing Committee shall be charged with joining with four (4) members, no more than (2) voting Directors and (2) nonvoting members, from the Energy Conservation Management Board to form the Joint Committee as required pursuant to 16-245m(d)(2) of the General Statutes.
 - 5.2.4.1. The principal functions, responsibilities and areas of cognizance of this Standing Committee shall be as follows: (i) to work with the Joint Committee to examine opportunities to coordinate the programs and activities contained in the plan developed under section 16-245n (c) of the General Statutes with the programs and activities contained in the plan developed under section 16-245m(d)(1) of the General Statutes; and (ii) to work with the Joint Committee to provide financing to increase the benefits of programs funded by the plan developed under

- section 16-245m(d)(1) of the General Statutes so as to reduce the longterm cost, environmental impacts and security risks of energy in the state.
- 5.2.4.2. This Standing Committee, in consultation with and upon approval of the Joint Committee, is authorized to vote and allocate funding in an amount not to exceed three hundred thousand dollars (\$300,000.00) per program or project so long as such program or project is within the Green Bank's approved Operations and Program Budget, consistent with the Green Bank's Comprehensive Plan, within an approved program of the Board or Deployment Committee and consistent with the credit and investment guidelines, criteria, policies, and practices approved by the Board. No resolution of the Joint Committee to approve an expenditure of funds may be approved without an affirmative vote of at least two (2) voting Directors of the Connecticut Green Bank.
- 5.2.4.3. Notwithstanding anything contained in these Bylaws to the contrary, the Joint Committee may adopt its own bylaws which shall govern the conduct and operations of the Joint Committee. If there are conflicting provisions between these Bylaws and any bylaws adopted by the Joint Committee, these Bylaws shall be controlling.
- 5.2.5. Additional Standing Committees or *ad hoc* committees of the Board may be formed by the Board at its discretion by resolution setting forth the purposes and responsibilities of such additional Standing Committee or *ad hoc* committee.

Each additional Standing Committee or *ad hoc* committee shall have at least three (3) members who are Directors, at least one (1) of which shall not be a State employee.

5.3. Advisory Committees.

- 5.3.1. The Board may form such advisory committees as the Board in its discretion may determine to be appropriate to advise and assist the Board, any Standing Committee of the Board, or management of the Green Bank in the performance of its statutory responsibilities. Such advisory committees may include as members such individuals as may be knowledgeable in the subject matter whether or not Directors or employees of the Green Bank.
- 5.3.2. Members of an advisory committee who are not Directors or employees of the Green Bank shall be considered "members of an advisory board" for purposes of the Connecticut Code of Ethics for Public Officials.
- 5.3.3. Public confidence in the recommendations and other actions of an advisory committee requires that advisory committee members avoid both actual conflicts of interest and situations that might give the appearance of a conflict of interest. It is to be expected, however, that many advisory committee members will have outside business or professional interests relating to the Green Bank's statutory mission. It is not intended that such outside business or professional interests be considered a conflict of interest, provided that an advisory committee member shall not participate in any deliberation or vote, and shall not take any other affirmative action as an advisory committee member, with respect to a matter in which such member has an interest which is in substantial

conflict with the proper discharge of the duties and responsibilities of membership on the advisory committee. For this purpose, the determination of whether an advisory committee member has an interest which is in substantial conflict with the duties and responsibilities of membership on the advisory committee shall be made in the same manner as provided in Section 1-85 of the Connecticut General Statutes for conflicting interests of public officials. In addition to disclosures required by law, the existence and nature of any such substantial conflict shall be promptly disclosed to the Committee Chair.

ARTICLE VI FISCAL YEAR

6.1. **Fiscal Year**. The fiscal year of the Green Bank shall extend from July 1 through the following June 30 except as the same may be otherwise determined by resolution of the Board.

ARTICLE VII CONFLICTS OF INTEREST

7.1. Public confidence in the recommendations and other actions of the Board and Committees requires that Directors avoid both actual conflicts of interest and situations that might give the appearance of a conflict of interest. Given the statutory qualifications for membership on the Board, it is to be expected, however, that some Directors, or Directors' immediate family members, will have outside business or professional interests relating to the Green Bank's statutory mission. It is not intended that such outside business or professional interests be considered a conflict of interest, provided that a Director shall not participate in any deliberation or vote, and shall not take any

other affirmative action as a Director or Committee member, with respect to a matter in which such Director or immediate family member has an interest which is in substantial conflict with the proper discharge of the duties and responsibilities of membership on the Board or such Committee. For this purpose, the determination of whether a Director or immediate family member has an interest which is in substantial conflict with the duties and responsibilities of membership on the Board or a Committee shall be made in the manner provided in Section 1-85 of the Connecticut General Statutes for conflicting interests of public officials. The existence and nature of any potential conflict of interest shall be promptly disclosed to the Chairperson (or, in the case of the Chairperson, to the Vice Chairperson) and otherwise as may be required by Section 1-86 of the Connecticut General Statutes.

7.2. With respect to potential conflicts of interest, as defined in Section 1-86(a) of the Connecticut General Statutes and pursuant thereto and pursuant to Section 1-81-30(c) of the Regulations of Connecticut State Agencies, the Member shall either (1) excuse himself or herself from participating in any deliberation or vote on the matter and may not otherwise take any affirmative action on the matter or (2) shall prepare a written statement prepared under penalty of false statement describing the matter requiring action and the nature of the potential conflict and explaining why, despite the potential conflict, such Member is able to vote and otherwise participate fairly, objectively, and in the public interest, and shall deliver a copy of such statement to the Office of State Ethics and shall enter a copy of the statement in the minutes of the Board or committee, as applicable.

- 7.3. In addition to the steps described in Section 7.1 and 7.2, above, a conflicted or potentially conflicted Director:
 - 7.3.1. is strongly encouraged to leave the room during discussion and vote on the matter at hand; and
 - 7.3.2. shall not participate in such discussion and vote; and
 - 7.3.3. shall not have access to non-public confidential information regarding the matter at hand.

ARTICLE VIII COMPENSATION

8.1. No Director or Committee member shall at any time receive or be entitled to receive any compensation for the performance of his or her duties as a Director, but may be reimbursed by the Green Bank for reasonable and necessary expenses incurred in the performance of such duties.

ARTICLE IX

RESTRICTIONS ON DIRECTORS AND EMPLOYEES LEAVING GREEN BANK

9.1. Green Bank Directors and employees are required to comply with the Code of Ethics

provisions pertaining to post-state activity and to familiarize themselves with the statutes

pertaining to post-state service restrictions which can be found at Connecticut General

Statutes Sections 1-84a and 1-84b and in the Guide to the Code of Ethics for Public Officials

and State Employees.

ARTICLE X

PARLIAMENTARY AUTHORITY

10.1. <u>Robert's Rules of Order</u>, current revised edition, shall govern the proceedings of the Board when not in conflict with these Bylaws.

ARTICLE XI

AMENDMENT

11.1. **Amendment or Repeal**. These Bylaws may be amended or repealed or new Bylaws may be adopted by the affirmative vote of a Super Majority of the Directors then in office. The Green Bank may adopt rules for the conduct of its business, and the adoption of such rules shall not constitute an amendment of these Bylaws.

ARTICLE XII DEFINITIONS

- 12.1. **Definitions**. Unless the context shall otherwise require, the following words and terms shall have the following meanings:
 - 12.1.1. "Green Bank" means the Connecticut Green Bank, as created and existing pursuant to the Statute.
 - 12.1.2. "Board" means the board of directors of the Green Bank appointed and serving pursuant to the Statute.
 - 12.1.3. "Chairperson" means the Chairperson of the Board appointed pursuant to the Statute.
 - 12.1.4. "Clean Energy" means solar photovoltaic energy, solar thermal, geothermal energy, wind, ocean thermal energy, wave or tidal energy, fuel cells, landfill gas, hydropower that meets the low-impact standards of the Low-Impact Hydropower Institute, hydrogen production and hydrogen conversion

technologies, low emission advanced biomass conversion technologies, alternative fuels, used for electricity generation including ethanol, biodiesel or other fuel produced in Connecticut and derived from agricultural produce, food waste or waste vegetable oil, provided the Commissioner of Energy and Environmental Protection determines that such fuels provide net reductions in greenhouse gas emissions and fossil fuel consumption, usable electricity from combined heat and power systems with waste heat recovery systems, thermal storage systems, other energy resources and emerging technologies which have significant potential for commercialization and which do not involve the combustion of coal, petroleum or petroleum products, municipal solid waste or nuclear fission, financing of energy efficiency projects, projects that seek to deploy electric, electric hybrid, natural gas or alternative fuel vehicles and associated infrastructure, any related storage, distribution, manufacturing technologies or facilities and any Class I renewable energy source.

- 12.1.5. "Committee" means any committee of or formed by the Board, including any Standing Committee, *ad hoc* committee, or advisory committee.
- 12.1.6. "Committee Chair" means the Chairperson of a Committee.
- 12.1.7. "Comprehensive Plan" means the plan developed by the Green Bank pursuant to section 16-245n(c) of the General Statutes.
- 12.1.8. "Connecticut Freedom of Information Act" means the Connecticut Freedom of Information Act, Connecticut General Statutes § 1-200 *et seq.*, as amended.
- 12.1.9. "Director" means a voting member of the Board appointed pursuant to the Statute.

- 12.1.10. "General Statutes" means the Connecticut General Statutes, as amended.
- 12.1.11. "Majority", whether capitalized or lowercase, means one more than half.
- 12.1.12. "President" means the President of the Green Bank hired by and serving at the pleasure of the Board of Directors of the Green Bank.
- 12.1.13. "Presiding Officer" has the meaning attributed to that term in Article IV, Section 4.5 of these Bylaws.
- 12.1.14. "Resolution of Purposes" means a resolution of the Board adopted pursuant to the penultimate sentence of Section 16-245n(d) of the General Statutes.
- 12.1.15. "Secretary" means the Secretary of the Board elected pursuant to the Statute and these Bylaws.
- 12.1.16. "Standing Committee" means a Standing Committee established by these
 Bylaws or another standing committee appointed by the Board for a specified period of time for the purpose of carrying out one or more functions of the Green Bank.
- 12.1.17. "Statute" means Connecticut General Statutes § 16-245n, as amended.
- 12.1.18. "Super Majority" means two thirds rounded up to the next whole integer.
- 12.1.19. "Vice Chairperson" means the Vice Chairperson of the Board elected pursuant to these Bylaws.

ARTICLE XIII AUTHORITY

13.1. These Bylaws are adopted pursuant to the Statute and effective as of December 16, 2016.

JOINT COMMITTEE OF THE ENERGY CONSERVATION MANAGEMENT BOARD AND THE BOARD OF DIRECTORS OF THE CONNECTICUT GREEN BANK

BYLAWS

PURSUANT TO

Section 16-245m(d)(2) of the Connecticut General Statutes

Adopted October 22, 2014

ARTICLE I

NAME, PLACE OF MEETINGS

- 1.1. **Name of the Committee**. The name of the Committee shall be, in accordance with the Statute, the "Joint Committee of the Energy Conservation Management Board and the Connecticut Green Bank".
- 1.2. **Meetings of the Committee**. The meetings of the Committee shall be held at such place or places within the State of Connecticut as the Committee may designate.

ARTICLE II

COMMITTEE MEMBERSHIP

- 2.1. **Membership**. The Committee shall consist of no more than nine (9) members. Both the Board of Directors of the Connecticut Green Bank and the Energy Conservation Management Board shall appoint no more than (2) voting Directors from their respective boards and (2) nonvoting members to serve on the Committee. Additionally, the Commissioner of the Department of Energy and Environmental Protection, or her or his designee, shall be a voting ex officio member of the Committee.
- 2.2. **Term**. Each member of the Committee shall serve a term of two (2) years or until a successor is appointed, whichever is longer.
- 2.3. **Chairperson**. The Committee shall elect from its members a Chairperson who shall serve a term of one (1) year or until a successor is chosen by the Committee, whichever is longer. The Chairperson shall preside at all meetings of the Committee which he or she attends.
- 2.4. **Vice Chairperson**. The Committee shall elect from its members a Vice Chairperson who shall serve a term of one (1) year or until a successor is chosen by the Committee, whichever is longer. In the absence or incapacity of the Chairperson, the Vice

Chairperson shall perform all the duties and responsibilities of the Chairperson. In the absence or incapacity of the Vice Chairperson, or in case of his or her resignation or death, the Committee shall elect from amongst its members an acting Vice Chairperson during the time of such absence or incapacity or until such time as the Committee shall elect a new Vice Chairperson.

2.5. Secretary. A Secretary may be elected by the Committee. The Secretary shall perform the duties imposed by resolution of the Committee. In the absence or incapacity of the Secretary, or in case of his or her resignation or death, the Committee shall elect from amongst its members an acting Secretary who shall perform the duties of the Secretary during the time of such absence or incapacity or until such time as the Committee shall elect a new Secretary. The Secretary shall serve until a successor is elected by the Committee.

ARTICLE III POWERS AND DUTIES OF THE COMMITTEE

3.1. **Powers and Duties**. The Committee shall examine opportunities to coordinate the programs and activities contained in the plan developed under section 16-245n(c) of the General Statutes with the programs and activities contained in the plan developed under section 16-245m(d)(1) of the General Statutes and to provide financing to increase the benefits of programs funded by the plan developed under section 16-245m(d)(1) of the General Statutes so as to reduce the long-term cost, environmental impacts and security risks of energy in the state.

ARTICLE IV COMMITTEE MEETINGS

- 4.1. **Regular Meetings**. Regular meetings of the Committee for the transaction of any lawful business of the Committee shall be held in accordance with a schedule of meetings established by the Committee, provided that the Committee shall meet at least four (4) times per calendar year.
- 4.2. **Special Meetings**. The Chairperson may, when the Chairperson deems it expedient, call a special meeting of the Committee for the purpose of transacting any business designated in the notice of such meeting.
- 4.3. Legal Requirements. All meetings of the Committee shall be noticed and conducted in accordance with the applicable requirements of the Connecticut Freedom of Information Act, including without limitation applicable requirements relating to the filing with the Secretary of the State of any schedule of regular meetings and notices of special meetings, meeting notices to Committee members, public meeting requirements, the filing and public availability of meeting agenda, the recording of votes and the posting or filing of minutes, the addition of agenda items at any regular meeting, and the holding of any executive session.
- 4.4. **Order of Business.** The order of business of any meeting of the Committee shall be as set forth in the agenda for such meeting, provided that the Committee may vary the order of business in its discretion.
- 4.5. **Organization**. At each meeting of the Committee, the Committee Chairperson, or in the absence of the Committee Chair, the Vice Chairperson, shall act as Presiding Officer. The Presiding Officer shall prepare or direct the preparation of a record of the business transacted at such meeting. Such record when adopted by a majority of the Committee

- members in attendance at the next meeting and signed by the Committee Chairperson shall be the official minutes of the Committee meeting.
- 4.6. **Attendance**. Any member of a Committee may participate in a meeting of the Committee by means of teleconference, videoconference, or similar communications equipment enabling all Committee members participating in the meeting to hear one another, and participation in a meeting pursuant to this Section shall constitute presence in person at such a meeting.
- 4.7. **Quorum**. A quorum of the Committee shall consist of a minimum of at least three (3) voting members.
- 4.8. **Enactment**. When a quorum is present, an affirmative vote of a majority of voting members attending the Committee meeting shall be sufficient for action, including the passage of any resolution, except as may otherwise be required by these Bylaws or applicable law.
- 4.9. **Parliamentary Authority**. Robert's Rules of Order, current revised edition, shall govern the proceedings of the Committee when not in conflict with these Bylaws.

ARTICLE V COMMITTEE STAFF

5.1. Committee Staff. The Committee may from time to time and upon a majority vote of the voting members request that employees and contractors from either the Connecticut Green Bank or the Energy Conservation Management Board assist the Committee with its work. Said assistance may include but not be limited to taking minutes of Committee meetings, conducting research or analyzing information.

ARTICLE VI AMENDMENT

6.1. **Amendment or Repeal**. These Bylaws may be amended or repealed or new Bylaws may be adopted by the affirmative vote of not less than four (4) voting members of the Committee.

ARTICLE VII DEFINITIONS

Definitions. Unless the context shall otherwise require, the following words and terms shall have the following meanings:

- 7.1.1. "Chairperson" means the Chairperson of the Committee appointed pursuant to these Bylaws.
- 7.1.2. "Committee" means the Joint Committee of the Energy Conservation

 Management Board and the Board of Directors of the Connecticut Green Bank.
- 7.1.3. "Connecticut Freedom of Information Act" means the Connecticut Freedom of Information Act, Connecticut General Statutes § 1-200 *et seq.*, as amended.
- 7.1.4. "General Statutes" means the Connecticut General Statutes, as amended.
- 7.1.5. "Majority", whether capitalized or lowercase, means one more than half.
- 7.1.6. "Presiding Officer" has the meaning attributed to that term in Article IV, Section 4.5 of these Bylaws.
- 7.1.7. "Secretary" means the Secretary of the Committee elected pursuant to these Bylaws.

- 7.1.8. "Statute" means Connecticut General Statutes § 16-245m(d)(2), as amended.
- 7.1.9. "Vice Chairperson" means the Vice Chairperson of the Committee elected pursuant to these Bylaws.

CONNECTICUT GREEN BANK

OPERATING PROCEDURES

PURSUANT TO

Section 16-245n of the Connecticut General Statutes

Adopted December 16, 2016 Revised January 24, 2020

I. <u>DEFINITIONS</u>

Definitions of terms used in these Operating Procedures are as stated in the Green Bank's Bylaws or in Section 16-245n of the General Statutes.

Clean Energy Project: An activity that (i) promotes investment in clean energy; (ii) fosters the growth, development, and commercialization of clean energy sources and related enterprises; (iii) stimulates demand for clean energy and deployment of clean energy sources that serve end use customers in this state; or (iv) supports the development of advanced technologies that reduce energy use from traditional sources. For purposes of this definition, "clean energy" has the meaning as provided in Connecticut General Statutes § 16-245n(a), as may be amended from time to time.

II. GENERAL PURPOSES

The general purposes of the Connecticut Green Bank shall be as prescribed in Section 16-245n of the General Statutes, and in a resolution of purposes adopted by the Board pursuant to Section 16-245n(d)(1) of the Connecticut General Statutes, including implementation of the Comprehensive Plan (all together referred to in these Operating Procedures as "the purposes of the Green Bank").

III. GOVERNANCE

The Green Bank, a quasi-public authority of the State of Connecticut, shall be governed by a Board of Directors comprised of a number and appointed in a manner as prescribed in Section

16-245n(e) of the General Statutes. The affairs of the Board shall be conducted in accordance with applicable law, the Green Bank's Bylaws, and such policies with respect to corporate governance as may be adopted by the Board.

IV. <u>ADMINISTRATION</u>

The affairs of the Green Bank shall be administered in accordance with applicable law, the Bylaws, these Operating Procedures and other administrative policies as may be adopted by the President in consultation with the Board. The Board shall appoint a President and such other officers as provided in the Bylaws. Under the direction of the Board, such officers shall conduct the business of the Green Bank and shall have such authority as is conferred by applicable law, the Bylaws, these Operating Procedures, and the Board. References in these Operating Procedures to approval by the Board shall mean and include approval by the Board or by any duly constituted committee thereof authorized to act on behalf of the Board pursuant to the Bylaws of the Green Bank.

V. ADOPTION OF ANNUAL OPERATING BUDGET AND PLAN OF OPERATION

Sixty (60) days prior to the close of each fiscal year, the President shall cause to be prepared a suggested Annual Operating Budget for the forthcoming fiscal year, which shall also comprise the Annual Plan of Operation. The suggested Annual Operating Budget for the forthcoming fiscal year shall be considered by the Board prior the close of the then current fiscal year, modified if deemed necessary, and adopted to be effective beginning the first day of the forthcoming fiscal year.

Any expenditure that exceeds the amount annually budgeted for a specific line item in the Annual Operating Budget by an amount greater than ten thousand dollars (\$10,000) shall require the approval of the Board.

The Annual Operating Budget shall incorporate the Green Bank's Annual Plan of Operation by specifying operating, programmatic, investment, and other expenses for the forthcoming fiscal year.

VI. COMMUNITY DEVELOPMENT FINANCIAL INSTITUTION

The Green Bank or an affiliate may seek to qualify as a Community Development Financial Institution under Section 4702 of the United States Code. If approved as a Community Development Financial Institution, then the Green Bank would be treated as a qualified community development entity for purposes of Section 45D and Section 1400N(m) of the Internal Revenue Code.

VII. PERSONNEL POLICIES

All employees shall be exempt from the classified service and shall have all rights and benefits provided by applicable law. Grade classifications for each job title shall be established by the President, subject to Board approval.

<u>Hiring & Promotions</u>: The President shall, in accordance with the Green Bank's Bylaws, establish a schedule of positions and total staffing levels for the Green Bank. The schedule of positions shall describe the signature authority, if any, of each position. The President, acting on

behalf of the Board, may from time to time fill any position on such schedule of positions and within such total staffing levels, except as may otherwise be provided in the Bylaws or any applicable resolution of the Board. The creation of any new Director-level position shall require the separate approval of the Board. For these purposes, "Director-level" means a Green Bank staff position one level under the officers in the Green Bank's staff organizational chart.

Whenever possible, the Green Bank shall maintain an identifiable career path for each class of positions on the schedule of positions approved by the Board. If the President determines it to be appropriate, then a current employee's position may be reclassified to another position within said career path. New positions approved by the Board and existing positions that become available as a result of a current employee vacating such position shall be posted internally and, if the President determines it to be appropriate, then publicly advertised in a manner reasonably designed to reach a range of possible applicants. A current employee shall be eligible for reclassification or promotion to an existing or new position only if such employee has at least six (6) months of service with the Green Bank and meets the minimum qualifications for such position.

Notwithstanding any other provision of this section or any employee handbook or other personnel policies of the Green Bank, the position of the President, the manner of the conduct of any search for qualified applicants for such position, and the terms and conditions of employment in such position, including matters of compensation, dismissal, and severance, shall be in the discretion and subject to the approval of the Board. Hiring and promotion shall in all cases be in accordance with the Green Bank's Affirmative Action Plan and applicable statutes.

Compensation and Benefits: The Board shall establish and may from time to time modify reasonable compensation plans and employee benefits programs and policies as the Board determines to be necessary or appropriate to attract and retain qualified employees and carry out the Green Bank's statutory mission, including:

- (a) A compensation plan, which shall consist of sufficient salary grades to provide such compensation rates as may be determined to be necessary or desirable for all job classifications within the Green Bank, and which may include an incentive compensation program for all jobs classifications;
- (b) An employee benefits program, which may include, but is not limited to, vacation days, holidays, sick days, group health, life, and disability insurance, tuition reimbursement, length of service awards and other benefits, including eligibility criteria and benefit levels;
- (c) A performance evaluation system, which may be used to determine merit increases in salary and incentive compensation levels;
- (d) Policies with respect to compensatory time, flex-time, and telecommuting;
- (e) Policies with respect to severance pay and benefits;
- (f) Policies with respect to business and travel reimbursement; and
- (g) Other reasonable compensation and employee benefits programs and policies as the Board determines to be necessary and appropriate to attract and retain qualified employees.

The President shall be empowered to administer the Green Bank's compensation plan and employee benefit programs and policies as approved by the Board, and shall have the authority to approve performance evaluations, determine merit increases and incentive compensation payments, and carry out such other duties and responsibilities as appropriate within the overall salary and employee benefits administration plan, except that performance evaluations and determination of merit or other salary increases and bonus payments for the position of President shall be reserved to the Board or the committee of the Board with responsibility for matters of compensation. The President has the authority to establish and modify certain employee policies involving workplace flexibility that do not in the aggregate have an adverse financial impact on the Green Bank. The Board shall review the Green Bank's compensation plan and employee benefit programs a part of its annual review of the Green Bank's Operating Budget and Plan of Operation.

<u>Dismissal</u>: Employment with the Green Bank is at-will, which means that either the employee or the Green Bank may terminate the relationship at any time and for any reason, with or without cause. The President may impose any level of disciplinary action, including termination, based upon the severity of the offense requiring discipline and the employee's past work record. This in no way alters the at-will employment policy.

VIII. PURCHASE, LEASE, ACQUISITION POLICY FOR REAL AND PERSONAL PROPERTY

The Green Bank, acting through the President or another duly authorized officer, shall have the authority to invest in, acquire, lease, purchase, own, manage, hold, and dispose of real and personal property, and to lease, convey, or deal in or enter into agreements with respect to such real and personal property, on any terms necessary or incidental to the carrying out of the purposes of the Green Bank.

Procurement Procedures: The Green Bank may purchase, lease, or acquire real and personal property on a bid, negotiated, or open-market basis, including through a sole-source procurement or in such other manner as the President determines to be appropriate and in the best interests of the Green Bank in the circumstances, provided that in the case of any contract or agreement for the purchase, lease, or acquisition of real or personal property requiring an expenditure by the Green Bank in excess of seventy-five thousand dollars (\$75,000), wherever possible bids or proposals shall be solicited from at least three (3) qualified parties. The requirements of this subsection shall not be applicable to transactions entered into by the Green Bank primarily for the purpose of providing financial assistance pursuant to Articles XII, XIII and XIV of these Operating Procedures.

IX. CONTRACTING FOR PROFESSIONAL SERVICES

The Green Bank, acting through the President or another duly authorized officer, shall have the authority to engage accountants, attorneys, appraisers, financial advisers, investment advisors, underwriters, investment managers, investment bankers, brokers, architects, construction

managers, engineers, and other consultants and professionals on any terms necessary or incidental to the carrying out of the purposes of the Green Bank.

Procurement Procedures: Contracts for professional services shall be awarded by the Green Bank in such manner, including on the basis of a sole-source procurement, as the Board determines to be appropriate and in the best interests of the Green Bank in the circumstances, provided that (i) for such contracts requiring an expenditure by the Green Bank up to and including seventy-five thousand dollars (\$75,000) over a period of one (1) fiscal year, the President has sole approval authority; (ii) for such contracts requiring an expenditure by the Green Bank over seventy-five thousand dollars (\$75,000) and up to and including one hundred fifty thousand dollars (\$150,000) over a period of one (1) fiscal year, the President and the Chairperson must both approve the expenditure; and (iii) for such contracts requiring an expenditure by the Green Bank of over one hundred fifty thousand dollars (\$150,000), such contract shall, whenever possible, be awarded on the basis of a process of competitive negotiation where proposals are solicited from at least three (3) qualified parties. The provisions of Section 1-127 of the General Statutes shall apply to the engagement of auditors by the Green Bank.

X. <u>STATE CONTRACTING REQUIREMENTS</u>

Any solicitation of bids or proposals by the Green Bank, and any award of a contract by the Green Bank, shall be subject to all state procurement and contracting requirements applicable to the Green Bank as a quasi public agency of the state

XI. <u>FUNDING SOURCES AND PROCEDURES OF</u> GENERAL APPLICABILITY TO FINANCIAL ASSISTANCE

<u>Funding Sources</u>: Funding sources specifically authorized by the Statute include, but are not limited to:

- (a) Funds repurposed from existing programs providing financing support for clean energy projects, provided any transfer of funds from such existing programs shall be subject to approval by the General Assembly and shall be used for expenses of financing, grants, and loans;
- (b) Any federal funds that can be used for the purposes specified in Section 16-245n(c) of the General Statutes;
- (c) Charitable gifts, grants, and contributions, as well as loans from individuals, corporations, university endowments, and philanthropic foundations;
- (d) Earnings and interest derived from financing support activities for clean energy projects backed by the Green Bank;
- (e) If and to the extent that the Green Bank or an affiliate qualifies as a Community

 Development Financing Institution under Section 4702 of the United States Code, then
 funding from the Community Development Financing Institution Fund administered by
 the United States Department of Treasury, as well as loans from and investments by
 depository institutions seeking to comply with their obligations under the United States
 Community Reinvestment Act of 1977; and
- (f) The Green Bank may enter into contracts with private sources to raise capital. The average rate of return on such debt or equity shall be set by the Board.

Procedures of General Applicability to Financial Assistance:

- (a) For clean energy projects, the amount to be financed by the Green Bank and other nonequity financing sources cannot exceed eighty per cent (80%) of the cost of developing and deploying such projects.
- (b) For energy efficiency projects the amount to be financed by the Green Bank and other nonequity financing sources cannot exceed one hundred per cent (100%) of the cost of financing such projects.
- (c) The Green Bank may assess reasonable fees on its financing activities to cover its reasonable costs and expenses, as determined by the Board.
- (d) The Green Bank shall make information regarding the rates, terms, and conditions for all of its financing support transactions available to the public for inspection, including formal annual reviews by both a private auditor conducted pursuant to Section 16-245n(f)(2) of the General Statutes and the Comptroller, and providing details to the public on the Green Bank's Web site; provided that public disclosure shall be restricted for patentable ideas, trade secrets, proprietary or confidential commercial or financial information, disclosure of which may cause commercial harm to a nongovernmental recipient of such financing support and for other information exempt from public records disclosure pursuant to Section 1-210 of the General Statutes.
- (e) Any entity that receives financing for a clean energy project from the Clean Energy Fund
 (Fund) shall provide the board an annual statement during the time period that funds are
 dispersed, certified as correct by the chief financial officer of the recipient of such

financing, setting forth all sources and uses of funds for such project in such detail as may be required by the Green Bank. The Green Bank shall maintain any such audits for not less than five (5) years. Residential projects for buildings with one to four dwelling units are exempt from this and any other annual auditing requirements, except that residential projects may be required to grant their utility companies' permission to release their usage data to the Green Bank.

XII. <u>FINANCIAL ASSISTANCE—GRANTS, LOANS OR LOAN GUARANTEES,</u> <u>DEBT AND EQUITY INVESTMENTS</u>

The procedures in this section are generally applicable to the award of grants, loans or loan guarantees, and debt and equity investments for clean energy projects when the Board determines that one of the following methods be used in the selection and award process: (i) competitive selection and award; (ii) programmatic selection and award; or (iii) strategic selection and award. The factors to be considered in choosing the appropriate selection and award method, and the general procedures to be followed in each such case are set forth below.

Competitive Selection and Award

Applicability: Competitive selection and award shall be the preferred method when the Board determines that it is appropriate in the circumstances to invite and consider proposals for a particular clean energy project or projects in a competitive process under an established schedule and pursuant to formal qualification and selection criteria so that proposers and proposals may be evaluated fairly and thoroughly on a comparative basis.

Issuance of RFP: A request for proposals (RFP) shall be published or distributed in a manner that the Green Bank determines will promote broad participation in the competitive process. Deadlines for particular stages in the competitive selection process will be set forth in the RFP. Notice of the RFP shall be posted on the Web site of the Green Bank, may be published in one or more major daily newspapers published in the State, and may also be posted on the Web site of the Connecticut Department of Administrative Services. The RFP itself shall also be posted on the Web site of the Green Bank and shall be mailed to or otherwise made available to interested parties in a reasonable manner.

Eligibility: Each RFP shall be issued pursuant to guidelines established by the Green Bank consistent with the Green Bank's Comprehensive Plan and Annual Operating Budget. Such guidelines shall at a minimum set forth: (i) proposer qualification requirements; (ii) project eligibility criteria; (iii) the nature and amount of financial assistance available from the Green Bank under the program; (iv) the principal selection criteria; (v) any mandatory terms and conditions under which such funding is available; (vi) applicable application, processing, or other program fees; and (vii) the process by which proposals will be considered and acted upon. Such guidelines may be modified, in whole or in part, from time to time and at any time by the Green Bank, consistent with the authorizing resolution of the Board.

<u>Selection Criteria</u>: Selection criteria shall include, as applicable, (i) the eligibility of the proposer; (ii) the proposer's qualifications and experience; (iii) the financial feasibility of the project, including the availability and firmness of required financing; (iv) the cost-effectiveness of the project; (v) the technological characteristics of the project, including

the potential for technological improvements and advancements; the project's operational feasibility and commercial applicability; (vi) the jobs created by the project; (vii) the environmental benefits stemming from the project; and (viii) the contributions to be made by the project toward the statutory purposes of the Green Bank and the furtherance of the Comprehensive Plan. Other selection criteria may be established for any RFP, and any weighting of selection criteria shall be in the discretion of the Green Bank as provided in such RFP. If appropriate in the circumstances, then an RFP may be first issued as a request for qualifications, following which those respondents found to be qualified are invited to respond to a final RFP.

Selection Process: The selection process shall be designed to provide for a fair and thorough evaluation of each eligible and qualified proposal, and shall be described in the RFP. The selection process may include the use of a review or scoring team, which may include members of any advisory committee, members of the staff of the Green Bank, and independent members with relevant industry, academic, or governmental experience. No member of any such review or scoring team shall have any financial or other personal interest in any proposed project. Any such review or scoring team shall act in an advisory capacity only and shall not constitute a committee or subcommittee of the Board, and the members of any such review or scoring team shall not be deemed to be public officials as a result of their service thereon. If the Green Bank determines that the responses to the RFP have been insufficient in number or quality to achieve the objectives of a competitive selection and award process or otherwise determines it to be in the best interest of the Green Bank, then the RFP may be extended, withdrawn and reissued, or cancelled at any time.

Selection Decision: One or more proposers may be selected for the purpose of entering into negotiations, if applicable, with respect to a project. Such selection shall be made by the Green Bank after taking into account the established selection criteria, any report or recommendation by staff of the Green Bank, the report of any review or scoring team, and the results of any review and recommendation by any advisory committee to the Board, applied on an equitable basis. If more than one proposal is selected, then they may be ranked in order of preference, which ranking may be based on the recommendation of staff of the Green Bank, such advisory committee, or the review or scoring team.

Notification to Proposers; Effect of Selection: All proposers shall be promptly notified of the results of the selection process. Such results may also be posted on the Web site of the Green Bank. Any such selection and notification is solely for the purpose of qualification for possible negotiation and does not constitute a financing commitment or the award of a contract.

Negotiation: The Green Bank may enter into good faith negotiations with one or more of the selected proposers at such time and in such order as the Green Bank may determine in its discretion consistent with the terms of the RFP. The commencement of such negotiations does not signify a commitment to provide financial assistance or to enter into a contract with a proposer. Either the proposer or the Green Bank may terminate such negotiations at any time for any reason. The Green Bank reserves the right to enter into negotiations with any other proposer at any time. Such negotiations shall not be limited to the scope or terms of the proposal but may include such other matters or different terms as the Green Bank may determine to be in the best interests of the Green Bank.

<u>Award</u>: Upon mutual agreement regarding the terms and conditions of the financial assistance, the Green Bank and the selected proposer may enter into a contract which memorializes the agreed-upon terms and conditions subject to all necessary Green Bank approvals, including the Board or a duly authorized committee of the Board.

<u>Fees and Expenses</u>: The Green Bank may impose reasonable application, processing, or similar fees in connection with the submission and processing of proposals, and may require, as a condition of negotiation with any selected proposer, that such proposer agree to pay costs incurred by the Green Bank, including fees and disbursements of the Green Bank's counsel, consultants, and other professional advisors. Any pre-established application, processing, or other program fees shall be set forth in the RFP.

<u>State Contracting Requirements</u>: Any RFP shall be subject to, and any definitive financing or contracting documents shall include, such provisions as may be required by applicable laws or executive orders, including with respect to non-discrimination and affirmative action.

Other Terms and Conditions: Any RFP may be subject to and include such other terms and conditions, not inconsistent with the requirements of these procedures, as the Green Bank may determine in its discretion to be appropriate and in the best interests of the Green Bank.

Programmatic Selection and Award

<u>Applicability</u>: Programmatic selection and award shall be the preferred method when the Board determines that it is appropriate in the circumstances to invite applications on a

continuing or periodic basis for clean energy projects with identified characteristics and to consider such applications under pre-established program-based qualification, eligibility, and selection criteria, but that it is not necessary or appropriate to evaluate such applications on a comparative basis as part of a competitive RFP process. Any such program may be discontinued, suspended, extended, or expanded at any time by the Board based on its determination of what is appropriate and in the best interests of the Green Bank.

Program Guidelines: Each such program shall be authorized by resolution of the Board and operated and administered by the Green Bank pursuant to program guidelines established by the Green Bank consistent with such Board authorization, which shall at a minimum set forth: (i) applicant qualification requirements; (ii) project eligibility criteria; (iii) the nature and amount of financial assistance available from the Green Bank under the program; (iv) the principal selection criteria; (v) any mandatory terms and conditions under which such funding is available; (vi) the application process, including a standard application form; (vii) applicable application, processing, or other program fees; and (viii) the process by which applications will be considered and acted upon. Such program guidelines may be modified, in whole or in part, from time to time and at any time by the Green Bank, consistent with the authorizing resolution of the Board. A general description of each such program, including the applicable program guidelines, and all such modifications, if any, shall be posted on the Web site of the Green Bank.

Approval; Terms and Conditions of Award: Applications shall be subject to the approval of the Board, or of the President or other officer of the Green Bank if and to the extent so authorized in the authorizing resolution of the Board, after taking into account any report

or recommendations of the staff of the Green Bank or an advisory committee, if applicable. Financial support for a project under any such program shall be in such amount, and shall be subject to such project-specific terms, conditions, and requirements, as may be determined by the Green Bank within the limits established by the authorizing resolution of the Board and consistent with the program guidelines.

<u>Fees and Expenses</u>: The Green Bank may impose reasonable application, processing, or similar fees in connection with the submission and processing of proposals, and may require, as a condition of negotiation with any selected proposer, that such proposer agree to pay costs incurred by the Green Bank, including fees and disbursements of the Green Bank's counsel, consultants, and other professional advisors. Any pre-established application, processing, or other program fees shall be set forth in the applicable program guidelines.

Strategic Selection and Award

Applicability: While the utilization of an open and public process, either competitive or programmatic, for awards from the Green Bank is anticipated most often to be in the best interest of the Green Bank and is to be strongly preferred, there are nevertheless recognized to be certain circumstances in which, based on special capabilities, uniqueness of the opportunity, urgency of need, cost, and similar factors, the public interest and the strategic mission of the Green Bank is best served by direct participation by the Green Bank in, and funding of, a particular clean energy project outside of an existing program and absent a competitive process of selection and award. Such strategic

selection and award method may be utilized upon an affirmative resolution, adopted by a two-thirds majority of the members of the Board present at a meeting of the Board, determining that the advantages of strategic selection and award clearly outweigh the general public interest in an open and public process based on a finding that at least three (3) of the following characteristics are present and are of predominant importance to the Green Bank:

- (a) <u>Special Capabilities</u>: The opportunity is presented by a party with exceptional experience, expertise, or availability, or holding patent or other proprietary rights of special value to the Green Bank.
- (b) <u>Uniqueness</u>: The opportunity is one-of-a-kind by virtue of location, high visibility, and leverage with other already committed public or private funding or similar unique attributes.
- (c) <u>Strategic Importance</u>: The opportunity has exceptionally strong compatibility with the mission of the Green Bank, including the jobs created by the project or the environmental benefits stemming from the project, or offers the Green Bank an organizational role, participation in governance, a formative or other key role in the industry, high funding leverage potential, broad market reach, exceptional educational or public relations value, or similar special strategic advantages important to the Green Bank.
- (d) <u>Urgency and Timeliness</u>: There is an urgent need to act on the opportunity as a result of public exigency or emergency, or a strategically important opportunity would become unavailable as a result of delay, or it would

- take an unacceptable length of time for a similar opportunity to reach the same level of readiness.
- (e) <u>Multiphase Project; Follow-on Investment</u>: The opportunity relates to the next phase of a multiphase proposal or the expenditure is necessary to support or protect an existing the Green Bank investment or initiative.

Other Requirements: Awards made by strategic selection and award shall to the extent applicable be otherwise subject to the same (i) Board of Director or Deployment Committee approval requirements and (ii) procedures set forth with respect to competitive selection and award under the headings "Negotiation", "Award", "Fees and Expenses", "State Contracting Requirements", and "Other Terms and Conditions".

If the Board of Directors approves of an open competitive process of selection and award with established criteria to encourage the investment and deployment of clean energy sources in Connecticut, such award will not be considered a strategic selection and the additional requirements for a strategic selection shall not be required.

XIII. <u>ISSUING AND RETIRING BONDS, BOND ANTICIPATION NOTES, AND</u> <u>OTHER OBLIGATIONS OF THE GREEN BANK</u>

The Board shall approve the issuance and retirement of all bonds, bond anticipation notes, and other obligations of the Green Bank. Such approval may include, but not be limited to, their form, denominations, maturities, rates, prices, public or private sales, and other provisions important or necessary for their issuance or retirement, including the payment of all expenses, premiums, and commissions in connection therewith.

XIV. SURPLUS FUNDS

Surplus funds generated through the sale of bonds, bond anticipation notes, or other obligations of the Green Bank, to the extent not needed for the payment of interest and principal due on any payment of said bonds, bond anticipation notes, or other obligations, if any accrued by the Green Bank, shall be withdrawn and transferred to the Green Bank's Operating Account at such times as is permitted under applicable resolutions for the bonds, bond anticipation notes, or other obligations to be used for any lawful purposes of the Green Bank.

XV. PERIODIC REVIEW; AMENDMENT OF PROCEDURES

At least annually, the Audit, Compliance, and Governance Committee of the Board shall meet to review and discuss the matters addressed by these Procedures and, if deemed necessary, to make recommendations for amendment of these Procedures to Board. Amendments to these Procedures shall be effective only upon adoption of such amendments by a two-thirds vote of the Board.

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CONNECTIUCT GREEN BANK ETHICS STATEMENT

The Connecticut Green Bank ("Green Bank") was created in 2011 by the State legislature as a quasi-public agency of the State of Connecticut. Its purpose is to ensure Connecticut's security and prosperity by realizing its energy, environmental and economic opportunities through clean energy finance and investments.

Ethical conduct is a core value of Green Bank and all employees and officials of Green Bank are expected to maintain the highest professional standards in the conduct of their duties as prescribed by the Code of Ethics for Public Officials and State Employees (see CGS §§ 1-79 through 1-89) found here. Green Bank maintains both a Board of Directors Ethical Conduct Policy and a staff Ethical Conduct Policy. Both policies may be found on the Green Bank web site found here.

Green Bank is committed to maintaining the highest standards in the conduct of their duties in order to maintain public trust and confidence, and to establishing the highest standards of honesty, integrity and quality of performance by recognizing the need for compliance with all relevant statutes, executive orders, rules and regulations.

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CONNECTICUT GREEN BANK

BOARD OF DIRECTORS AND ADVISORY COMMITTEE MEMBERS ETHICAL CONDUCT POLICY

Section 1. Purpose

Ethical conduct and transparency in the conduct of its business are core values of the Connecticut Green Bank ("Green Bank"). The directors of the Green Bank are expected to maintain the highest standards in the conduct of their duties to maintain public trust and confidence in the Green Bank. It is the purpose of this Ethics Policy to establish the highest standards of honesty, integrity and quality of performance for all Green Bank directors, recognizing the need for compliance with all relevant statutes, executive orders, rules and regulations to avoid even the appearance of impropriety in the performance of Green Bank's statutory mandate.

In particular, each director is responsible for his or her conduct, and should become familiar with, the Code of Ethics for Public Officials. A copy of the *Guide to the Code of Ethics for Public Officials and State Employees* may be found by clicking <u>here</u>.

This Ethics Policy is intended to be a general guide for Green Bank directors in determining what conduct is prohibited so that it may be avoided.

Section 2. Values

In performance of their duties, Green Bank directors shall:

- Maintain ethical standards beyond strict compliance with relevant statutes and regulations;
- Fulfill the statutory mandate of the Green Bank in fostering the growth, development and commercialization of clean energy sources and related enterprises and in stimulating demand for clean energy and in the deployment of clean energy resources which serve end use customers in the State of Connecticut;
- Make all decisions strictly on a public purpose and financial basis, without regard to political affiliation or personal interest;
- Fulfill their obligation to applicants, the public, ratepayers, the Executive Branch of the State of Connecticut, the Connecticut General Assembly and all other stakeholders in the Green Bank;

- Maintain transparency and honesty in all operations of the Green Bank;
- Act as a responsible stewardship of all the Green Bank assets;
- Provide for the timely distribution of all public information to any interested party; and
- Maintain the public trust by strict adherence to the public purpose for which the Green Bank was created.

Section 3. Applicability

This Ethics Policy is applicable to all directors of the Green Bank and, to the extent required by law, all non-director voting members of any advisory committees formed by the Green Bank.

Section 4. Enforcement

Any questions or concerns regarding violations or suspected violations of either the Code of Ethics for Public Officials or this Ethics Policy shall be brought to the attention of the Chairperson or Vice-Chairperson of the Board of Directors in writing who shall then transmit such questions or concerns to the Board of Directors. Persons subject to this Ethics Policy may also seek advice from the Office of State Ethics at 860-566-4472 regarding known or suspected violations of the Code of Ethics. Further, persons subject to this Ethics Policy may seek advice from the Office of State Ethics should any questions arise concerning his or her conduct.

Intentional violations of either the Code of Ethics for Public Officials or this Ethics Policy will not be tolerated and will be reported to the Board and the Office of State Ethics which could result in disciplinary action such as probation or an ethics hearing and, if applicable, referral to the appropriate federal and state agencies.

Section 5. Code of Ethics Compliance

As public officials of the State of Connecticut, Green Bank directors are subject to all relevant ethics statutes, regulations, and the like of the State of Connecticut. Key provisions of the Code of Ethics for Public Officials include:

- GIFTS In general, public officials are prohibited from accepting gifts from anyone doing business with, seeking to do business with, or directly regulated by the official's agency or department or from persons known to be a registered lobbyist or lobbyist's representative. There are also restrictions on gifts between public officials in certain circumstances. (See the Guide to the Code of Ethics for Public Officials and State Employees, and Selected Statutory References, Sections 1-79(e) and 1-84(m) found therein.)
- FINANCIAL BENEFIT A public official is prohibited from using his/her office or

non-public information obtained in state service for the financial benefit of the individual, certain family members, or that of an associated business. (See Selected Statutory References, Section 1-84(c))

- FINANCIAL DISCLOSURE All Green Bank directors are required to file a
 financial disclosure statement with the Office of State Ethics. Some or all of the
 information contained in the financial disclosure statement may be considered
 public information. (See the Guide to the Code of Ethics for Public Officials and
 State Employees and Selected Statutory References, Sections 1-79(e) and 1-84(m))
- RECUSAL OR REPORTING IN CASE OF POTENTIAL CONFLICTS The Code of Ethics requires that public officials avoid potential conflicts of interest. If a director would be required to take official action that would affect a financial interest of such director, certain family members or a business with which they are associated, they must excuse themselves from participating in deliberations, voting or otherwise taking affirmative action on the matter. (See Selected Statutory References, Section 1-86(a) and the Green Bank's Bylaws, Article VII, found by clicking here. Additionally the Green Bank has prepared a written Ethics Statement (as noted in sec. 1-86 (a) of the statutes and Article VII of the Bylaws) which can be found on the Green Bank web site here.

The foregoing items are not an exhaustive list of prohibited activities, and each director should familiarize himself or herself with the Code of Ethics for Public Officials.

Section 6. Outside Business Interests

Because of the statutory qualifications for membership on the Green Bank Board of Directors, it is expected that some directors will have outside business or professional interests related to energy resources or policy. Such outside interests are not considered to create a conflict of interest, provided that a director shall not participate in any deliberation or vote, and shall not take any other affirmative action as a director, with respect to a matter in which the director has an interest which is in substantial conflict with the proper discharge of the director's duties and responsibilities as a director of the Green Bank. Determination of whether a "substantial conflict" exists is made in the manner provided in Section 1-85 of the Connecticut General Statutes. (See Selected Statutory References, Section 1-85 and Green Bank Bylaws, Article VII)

Section 7. Additional Green Bank Policies

Given that the Green Bank is partially funded through a surcharge on consumers of electric services in the State of Connecticut and the Green Bank's statutory mandate is to foster the growth, development, and commercialization of clean energy resources, and to stimulate demand for clean energy, among other things, the Green Bank expects that, in

addition to complying with the Code of Ethics for Public Officials and State Employees, that its directors will:

- Protect the confidential information to which Green Bank directors have access
- Avoid actual or potential conflicts of interest
- Neither interfere with nor solicit contracts on behalf of any person
- Submit the Statement of Financial Interests disclosure documents to the Office of State Ethics in a timely manner.

Section 8. Post-State Employment Restrictions

Green Bank directors are required to comply with the Code of Ethics provisions pertaining to post-state employment, which are commonly known as the "revolving door" provisions. For example, there are restrictions on accepting employment with a party to certain contracts (which would include contracts relating to investments or other financial assistance) if the director was involved in the negotiation or award of the contract, restrictions on representing other parties before the Green Bank during a one-year period following departure from state service, and restrictions on accepting employment as a lobbyist or acting as a registrant if the director were convicted of any felony involving corrupt practices, abuse of office or breach of the public trust.

Directors should familiarize themselves with the statutes pertaining to post-state employment generally, which can be found at Connecticut General Statutes Sections 1-84a and 1-84b. (See Selected Statutory References). You may access these statutes <a href="https://example.com/here-the-base

Section 9. GREEN BANK Staff

Directors understand that Green Bank employees are subject to the Green Bank Ethical Conduct Policy. Known or suspected breaches of the Green Bank Ethical Conduct Policy by such employees may require reporting to the Green Bank's General Counsel acting as the Green Bank's Ethics Compliance Officer and may require disciplinary action as provided by the Green Bank's employment policies, in addition to sanctions provided by state law.

It is the responsibility of each Green Bank employee to inquire of the Green Bank's Ethics Compliance Officer or the Office of State Ethics at 860-566-4472 should any question arise concerning his or her conduct.

Approved by the Connecticut Green Bank Board: April 24, 2020.

Director Acknowledgment Form

| Committee Members Ethical Conduct Poread and comply with this policy and an | cut Green Bank Board of Directors and licy and understand that it is my responsy revisions made to it. Should the content by be required to provide a written acknowled hange(s). | sibility to |
|---|---|-------------|
| Director's Signature | Date | |
| Print Director Name | | |

845 Brook Street, Rocky Hill, CT 06067 T 860.563.0015 ctgreenbank.com



CONNECTICUT GREEN BANK ETHICAL CONDUCT POLICY

Ethical conduct is a core value of the Connecticut Green Bank ("Green Bank") and all employees and officials of Green Bank are expected to maintain the highest professional standards in the conduct of their duties. In particular, each person is responsible for, and should become familiar with, the Code of Ethics for Public Officials. A copy of the "Guide to the Code of Ethics for Public Officials" is found here. You may access the Code on the Office of State Ethics website by clicking here.

Principal provisions of the Code of Ethics for Public Officials include:

- **GIFTS** In general, state employees are prohibited from accepting gifts from anyone doing business with, seeking to do business with, or directly regulated by the state employee's agency or department or from persons known to be a registered lobbyist or lobbyist's representative. (See statutory references below)
- FINANCIAL BENEFIT A state employee is prohibited from using his/her office for the financial benefit of the individual, certain family members, or that of an associated business.
- OUTSIDE EMPLOYMENT A state employee may not accept outside employment
 which will impair his/her independence of judgment as to official state duties or which
 would induce the disclosure of confidential information. Generally, outside employment
 is barred if the private employer can benefit from the state employee's official actions.
- FINANCIAL DISCLOSURE Certain state employees are required to file a financial disclosure statement with the Office of State Ethics. This statement will be considered public information.
- POST-STATE EMPLOYMENT State employees are required to comply with the Code of Ethics provisions pertaining to post-state employment, which are commonly known as "revolving door" prohibitions. For example, there are restrictions on accepting employment with a party to certain contracts if you were involved in the negotiation or award of the contract; for one year after leaving state service, you may not represent anyone for compensation before your former agency; certain designated individuals in the State's regulatory agencies may not, for one year after leaving state service, accept employment with any business subject to regulation by their former agency.

Employees leaving Green Bank are required to comply with the Code of Ethics provisions pertaining to post-employment. Employees should familiarize themselves with the statutes pertaining to post-employment. They can be found at C.G.S. Section 1-

84a and 1-84b. You may access these statutes here. A summary of these requirements is included in the "Guide to the Code of Ethics for Public Officials and State Employees" found above.

Before an employee leaves the employment of Green Bank, an exit interview will be conducted by our Ethics Compliance Officer. The purpose of this exit interview will be to individually review potential issues relating to post-Green Bank employment.

Given the nature of Green Bank's role as a public body investing and promoting the investment in clean energy companies, Green Bank expects that, in addition to complying with all provisions of the Code of Ethics for Public officials, employees and officials will:

- Maintain the confidential information to which Green Bank has access;
- Avoid actual or potential conflicts of interest;
- Neither interfere with nor solicit contracts on behalf of any person;
- Avoid, in the case of employees, outside employment which may compromise or interfere with the ability to perform duties for Green Bank; and
- For those employees subject to the requirements of C.G.S. 1-83(a), submit the Statement of Financial Interests disclosure documents to the Office of State Ethics in a timely manner.

The rules of conduct in these matters may be covered in more detail in the Green Bank Employee Handbook.

The board of Green Bank continues to have well justified faith in the integrity of and ethical conduct of employees and officials of Green Bank. It is understood however, that breaches of this ethics policy may require disciplinary action, including but not limited to dismissal from Green Bank, in addition to sanctions provided by state law. Such sanctions are to be applied as appropriate with the approval of the Green Bank Board of Directors.

It is the responsibility of each employee and official to inquire of the Green Bank Ethics Compliance Officer or the Office of State Ethics at 860.566.4472 should any question arise concerning his or her conduct.

Statutory References

Sec. 1-79. Definitions. The following terms, when used in this part, shall have the following meanings unless the context otherwise requires:

(e) "Gift" means anything of value, which is directly and personally received, unless consideration of equal or greater value is given in return. "Gift" **shall not include**:

- 1) A political contribution otherwise reported as required by law or a donation or payment as described in section 9-601a;
- (2) Services provided by persons volunteering their time, if provided to aid or promote the success or defeat of any political party, any candidate or candidates for public office or the position of convention delegate or town committee member or any referendum question;
- (3) A commercially reasonable loan made on terms not more favorable than loans made in the ordinary course of business;
- (4) A gift received from (A) an individual's spouse, fiancé or fiancée, (B) the parent, brother or sister of such spouse or such individual, or (C) the child of such individual or the spouse of such child:
- (5) Goods or services (A) which are provided to the state (i) for use on state property, or (ii) to support an event or the participation by a public official or state employee at an event, and (B) which facilitate state action or functions. As used in this subdivision, "state property" means (i) property owned by the state, or (ii) property leased to an agency in the Executive or Judicial Department of the state;
- (6) A certificate, plaque or other ceremonial award costing less than one hundred dollars;
- (7) A rebate, discount or promotional item available to the general public;
- (8) Printed or recorded informational material germane to state action or functions;
- (9) Food or beverage or both, costing less than fifty dollars in the aggregate per recipient in a calendar year, and consumed on an occasion or occasions at which the person paying, directly or indirectly, for the food or beverage, or his representative, is in attendance;
- (10) Food or beverage or both, costing less than fifty dollars per person and consumed at a publicly noticed legislative reception to which all members of the General Assembly are invited and which is hosted not more than once in any calendar year by a lobbyist or business organization. For the purposes of such limit, (A) a reception hosted by a lobbyist who is an individual shall be deemed to have also been hosted by the business organization which he owns or is employed by, and (B) a reception hosted by a business organization shall be deemed to have also been hosted by all owners and employees of the business organization who are lobbyists. In making the calculation for the purposes of such fifty-dollar limit, the donor shall divide the amount spent on food and beverage by the number of persons whom the donor reasonably expects to attend the reception;
- (11) Food or beverage or both, costing less than fifty dollars per person and consumed at a publicly noticed reception to which all members of the General Assembly from a region of the state are invited and which is hosted not more than once in any calendar year by a lobbyist or business organization. For the purposes of such limit, (A) a reception hosted by a lobbyist who is an individual shall be deemed to have also been hosted by the business organization which he owns or is employed by, and (B) a reception hosted by a business organization shall be

deemed to have also been hosted by all owners and employees of the business organization who are lobbyists. In making the calculation for the purposes of such fifty-dollar limit, the donor shall divide the amount spent on food and beverage by the number of persons whom the donor reasonably expects to attend the reception. As used in this subdivision, "region of the state" means the established geographic service area of the organization hosting the reception;

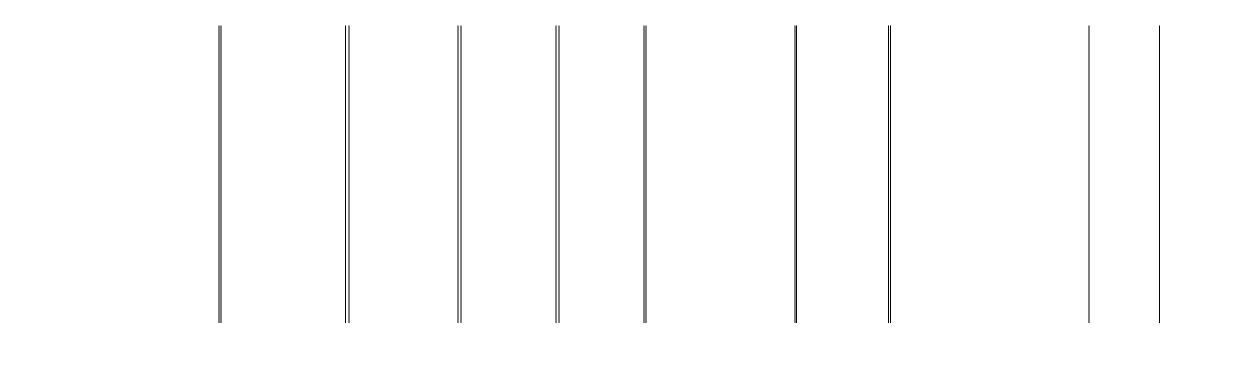
- (12) A gift, including but not limited to, food or beverage or both, provided by an individual for the celebration of a major life event;
- (13) Gifts costing less than one hundred dollars in the aggregate or food or beverage provided at a hospitality suite at a meeting or conference of an interstate legislative association, by a person who is not a registrant or is not doing business with the state of Connecticut;
- (14) Admission to a charitable or civic event, including food and beverage provided at such event, but excluding lodging or travel expenses, at which a public official or state employee participates in his official capacity, provided such admission is provided by the primary sponsoring entity;
- (15) Anything of value provided by an employer of (A) a public official, (B) a state employee, or (C) a spouse of a public official or state employee, to such official, employee or spouse, provided such benefits are customarily and ordinarily provided to others in similar circumstances; or
- (16) Anything having a value of not more than ten dollars, provided the aggregate value of all things provided by a donor to a recipient under this subdivision in any calendar year shall not exceed fifty dollars.
- (17) Training that is provided by a vendor for a product purchased by a state or quasi-public agency which is offered to all customers of such vendor; or
- (18) Travel expenses, lodging, food, beverage and other benefits customarily provided by a prospective employer, when provided to a student at a public institution of higher education whose employment is derived from such student's status as a student at such institution, in connection with bona fide employment discussions.

Section 1-84 Prohibited Activities

(m) No public official or state employee shall knowingly accept, directly or indirectly, any gift, as defined in subsection (e) of section 1-79, from any person the official or employee knows or has reason to know: (1) Is doing business with or seeking to do business with the department or agency in which the official or employee is employed; (2) is engaged in activities which are directly regulated by such department or agency; or (3) is prequalified under section 4a-100. No person shall knowingly give, directly or indirectly, any gift or gifts in violation of this provision. For the purposes of this subsection, the exclusion to the term "gift" in subdivision (12) of subsection (e) of section 1-79 for a gift for the celebration of a major life event shall not apply. Any person prohibited from making a gift under this subsection shall report to the Office of State Ethics any solicitation of a gift from such person by a state employee or public official.

Checklist of Statutorily Required Reports

| | | orny Kequir | | | | | | | | | | | | | | | | | | | | | | | OpenCT Checkbook D | ta |
|-------------|---------|-------------------------|------------------------|--------------------|---------------------|------------------|-------------------|--------------------|------------|-------------------|--------------------------|------------|------------------|----------------------|-------------|----------------------------|-----------------------------|----------------------|--------|----------------------------|---------------------|--------------------|----------------------|--------------------|---------------------|------------------------|
| | | | arterly Cash F | | | | | erly Human Re | | | Sec. 1-123 | | | EEEFA Bonding | | SCRF Not | *** | SIP | | Annual Report | | | /leetings | | to Comptroller | Board Diversity |
| Fiscal Year | Quarter | Beginning | Ending | Due | Submitted | Early/Late | Quarter End | Submitted | Early/Late | Due 4 (4 (2045 | Submitted | Early/Late | | Submitted Ear | rly/Late Re | eason Required | Due 4 /4 /2044 | Submitted Early/Late | Due | Submitted Early/Late | Held | Туре | Held | Туре | Requested by Delive | |
| | 1 | 7/1/2013 | 0/30/2013 | 12/21/12 | 3/14/14 | 73 | 10/1/13 1/1/14 | 6/17/14 6/17/14 | 259 167 | | 12/30/2014 12/31/2015 | -2 -1 | 1/1/13 1/1/14 | 2/8/13 1/15/14 | 14 | CSCU deal CSCU, Meriden | 1/1/2014 1/1/2017 | - 1/30/2017 29 | | 12/30/14 -2 12/31/15 -1 | 12/16/15 1/15/16 | | | | 2/1/20 1/31, | 19 10/1/2019 9/25/2019 |
| | 2 | 10/1/2013 1 | | | 3/14/14 | -17 | 4/1/14 | 6/17/14 | 77 | | 12/29/2016 | -3 | 1/1/15 | | | CSCU, Meriden | 1/1/2019 | 1/11/2019 10 | | 10/17/16 -76 | 2/26/16 | special | | regular | 2/1/20 1/51 | |
| 2014 | 3 | 1/1/2014 | | 6/30/14 | 4/21/15 | 295 | 7/1/14 | 8/5/14 | 35 | | 12/27/2017 | -5 | | 12/23/15 | | | Program Sunset 1/1/2021 | | | 12/1/17 -31 | 3/3/16 | special | 4/27/18 | | | |
| | 4 | | 6/30/2014 | 9/30/14 | 4/21/15 | 203 | 10/1/14 | 10/2/14 | 1 | | 12/31/2018 | -1 | | | -17 | | | | | 1/11/19 10 | 4/22/16 | regular | 5/25/18 | | | |
| | 1 | | 9/30/2014 | | 6/16/16 | 533 | 1/1/15 | 1/12/15 | 11 | 1/1/2020 | 12/31/2019 | -1 | | | -31 | | | | 1/1/20 | 12/27/19 -5 | 6/17/16 | regular | 6/13/18 | | | |
| 2015 | 2 | 10/1/2014 1 1/1/2015 | | 3/31/15 6/30/15 | 6/16/16 6/16/16 | 443 352 | 4/1/15 7/1/15 | 4/12/15 7/9/15 | 11 8 | | | | | 12/31/18 12/30/19 | -1 -2 | | | | | | 7/6/16 7/22/16 | special regular | | | | |
| | 4 | 4/1/2015 | | 9/30/15 | 6/16/16 | 260 | 10/1/15 | 10/9/15 | 8 | | | | 1/1/20 | 12/30/13 | -2 | | | | | | 10/21/16 | regular | 8/21/18 | | | |
| | 1 | 7/1/2015 | | 12/31/15 | 5/31/16 | 152 | 1/1/16 | 1/8/16 | 7 | | | | | | | | | | | | 12/16/16 | regular | | | | |
| 2016 | 2 | 10/1/2015 1 | | | 5/31/16 | 61 | 4/1/16 | 3/31/16 | -1 | | | | | | | | | | | | 1/5/17 | | | | | |
| | 3 | | 3/31/2016 | 6/30/16 | 5/31/16 | -30 | 7/1/16 | 7/5/16 | 4 | | | | | | | | | | | | 1/20/17 | regular | 12/14/18 | | | |
| | 4 | | 6/30/2016 | 9/30/16 | 8/10/16 | -51 -53 | 10/1/16 | 10/5/16 | 4 | | | | | | | | | | | | 3/10/17 4/28/17 | special | | | | |
| | 2 | 7/1/2016 10/1/2016 | | | 11/8/16 2/23/17 | -36 | 1/1/17 4/1/17 | 2/21/17 4/10/17 | 51 9 | | | | | | | | | | | | 6/9/17 | regular special | 3/29/19 4/26/19 | | | |
| 2017 | 3 | 1/1/2017 | | | 5/10/17 | -51 | 7/1/17 | 7/17/17 | 16 | | | | | | | | | | | | 6/23/17 | | | | | |
| | 4 | 4/1/2017 | | | 8/9/17 | -52 | 10/1/17 | 10/6/17 | 5 | | | | | | | | | | | | | regular | | | | |
| | 1 | 7/1/2017 | | | 12/21/17 | -10 | 1/1/18 | 1/9/18 | 8 | | | | | | | | | | | | 9/28/17 | | 9/12/19 | | | |
| 2018 | 2 | 10/1/2017 1 1/1/2018 | | 3/31/18 6/30/18 | 2/28/18 5/17/18 | -31 -44 | 4/1/18 7/1/18 | 4/2/18 7/5/18 | 1 4 | | | | | | | | | | | | 10/3/17 10/20/17 | | 10/25/19 11/20/19 | | | |
| | 4 | 4/1/2018 | | 9/30/18 | 9/5/18 | -25 | 10/1/18 | 10/3/18 | 2 | | | | | | | | | | | | 11/6/17 | special | 12/20/19 | | | |
| | 1 | 7/1/2018 | | 12/31/18 | 11/28/18 | -33 | 1/1/19 | 1/3/19 | 2 | | | | | | | | | | | | 11/13/17 | special | 1/24/20 | | | |
| 2019 | 2 | 10/1/2018 1 | | 3/31/19 | 7/11/19 | 102 | 4/1/19 | 4/1/19 | 0 | | | | | | | | | | | | 12/1/17 | special | 3/25/20 | | | |
| | 3 | | 3/31/2019 | 6/30/19 | 9/23/19 | 85 | 7/1/19 | 7/1/19 | 0 | | | | | | | | | | | | 12/15/17 | regular | 4/24/20 | | | |
| | 4 | | 6/30/2019 9/30/2019 | 9/30/19 | 9/23/19 12/27/19 | -7 -4 | 10/1/19 1/1/20 | 10/1/19 1/3/20 | 0 2 | | | | | | | | | | | | | | | regular regular | | |
| 2020 | 2 | 10/1/2019 1 | | | 3/26/20 | -5 | 4/1/20 | 4/3/20 | 2 | | | | | | | | | | | | | | | special | | |
| 2020 | 3 | | | | 6/22/20 | -8 | 7/1/20 | 7/7/20 | 6 | | | | | | | | | | | | | | | | | |
| | 4 | | 6/30/2020 | 9/30/20 | 9/28/20 | -2 | 10/1/20 | 10/9/20 | 8 | | | | | | | | | | | | | | | | | |
| | 1 | 7/1/2020 | | | | -44196 -44286 | | | | | | | | | | | | | | | | | | | | |
| 2021 | 2 | 10/1/2020 1 | | | | -44286 -44377 | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4/1/2021 | | | | -44469 | | | | | | | | | | | | | | | | | | | | |
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| | | | | FY 2014 | | 139 | | | 135 | | | | | | | | | | | | | | | | | |
| | | | | FY 2015 | | 397 | | | 70 | | | | | | | | | | | | | | | | | |
| | | | | FY 2016 | | 33 | | | 31 | | | | | | | | | | | | | | | | | |
| | | | | FY 2017 | | -48 | | | 15 | | | | | | | | | | | | | | | | | |
| | | | | FY 2018 FY 2019 | | -28 | | | 8 10 | | | | | | | | | | | | | | | | | |
| | | | | FY 2019 FY 2020 | | -5 | | | 10 | | | | | | | | | | | | | | | | | |
| | | | | FY 2021 | | -44332 | | | | | | | | | | | | | | | | | | | | |
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CONNECTICUT GREEN BANK

Audit, Compliance and Governance Committee

Presentation

Audit of the fiscal year ended June 30, 2020

blum shapiro

step forward →

Agenda

» Engagement Scope and Reporting

» Financial Highlights

» Required Auditors' Communications

» Closing

» Audit Team Contact Information



Engagement Scope & Reporting

- » The audit was performed under the following standards:
 - Auditing Standards Generally Accepted in the United States of America (GAAS).
 - The standards applicable to financial audits contained on Government Auditing Standards, issued by the Comptroller General of the Unites States (GAGAS).

Engagement Scope & Reporting

- » Reporting Results in the Financial Statements:
 - Reporting under GAAS:
 - Unmodified audit opinion.
 - Reporting under GAGAS:
 - Reporting on Internal Control and Compliance at the Financial Statement Level

Under Internal Control

No material weaknesses or significant deficiencies were identified.

Under Compliance

No instances of noncompliance were identified.



Statement of Net Assets (in thousands)

Assets and Deferred Outflows:

- Total assets of the Green Bank increased to \$213MM during 2020, an increase of \$2.3MM. Program loans increased by \$17.1MM due to increases in the low and moderate income lending of \$5MM, commercial solar PV asset sale financing of \$4.1MM, multifamily lending of \$2.7MM, fuel cell financing of \$2.3MM and CPACE lending of \$1.8MM. This was offset by a decrease in cash and cash equivalents which was driven by disbursements to contractors for construction of CSCU solar PV systems.
- Overall, current assets decreased by \$9.1MM while noncurrent assets increased by \$11.4MM. The current assets were affected mostly by decreases in cash. Noncurrent assets were affected primarily by program loan additions.

| | 2020 | 2019 | Increase (Decrease) |
|--|---------|-----------|------------------------|
| Cash and cash equivalents-unrestricted | 8,156 | \$ 18,947 | \$ (10,791) |
| Cash and cash equivalents-restricted | 14,910 | 16,668 | (1,758) |
| Bonds receivable | 3,031 | 3,289 | (258) |
| Solar lease notes | 4,948 | 6,303 | (1,355) |
| Promissary notes | 2,518 | 3,508 | (990) |
| Program loans Program loans | 85,682 | 68,557 | 17,125 |
| Capital assets, net | 79,972 | 80,523 | (551) |
| Other assets | 14,080 | 13,233 | 847_ |
| Total Assets | 213,297 | 211,028 | 2,269 |
| Deferred Outflows of Resources | | | |
| Deferred amount for pensions | 6,266 | 7,756 | (1,490) |
| Deferred amount for OPEB | 5,189 | 1,732 | 3,457 |
| Deferred amount for asset retirement obligations | 2,658 | 2,828 | (170) |
| Total deferred outflows of resources | 14,113 | 12,316 | 1,797 |

Statement of Net Assets (in thousands)

Liabilities and Deferred Inflows:

- Total liabilities increased \$1.9MM due to the line of credit increase of \$6.1MM for SHREC Warehouse 1, increase in OPEB liability \$4.5MM which were both offset by decreases in long-term debt.
- Total Net Position of \$76.7MM was consistent to the prior year net position of \$76.3MM.
- The liquidity of the balance sheet (current assets/current liabilities) decreased from 192.7% to 110.6% for the year ended June 30, 2020.

| | 2020 | 2019 | Increase (Decrease) |
|---|--------------|-----------|------------------------|
| Current liabilities | 21,815 | 16,837 | 4,978 |
| Unearned revenue | 801 | 880 | (79) |
| Pension liabilities | 25,174 | 25,805 | (631) |
| OPEB liabilities | 28,485 | 24,000 | 4,485 |
| Other long term liabilities | 4,108 | 4,012 | 96 |
| Fair value of interest rate swap | 1,164 | 523 | 641 |
| Long term debt, less current maturities | 65,405 | 73,029 | (7,624) |
| Total liabilities | 146,952 | 145,086 | 1,866 |
| Deferred Inflows of Resources | | | |
| Deferred amount for pensions | 1,380 | 81 | 1,299 |
| Deferred amount for OPEB | 2,336 | 1,895 | 441 |
| Total deferred outflows of resources | 3,716 | 1,976 | 1,740 |
| Invested in capital assets Restricted Net Position: | 4,529 | 3,794 | 735 |
| Non-expendable | 64,388 | 66,902 | (2,514) |
| Restricted - energy programs | 10,585 | 11,537 | (2,314) (952) |
| Unrestricted - energy programs | (2,760) | (5,951) | 3,191 |
| Total Net Position | \$ 76,742 \$ | 76,282 \$ | 460 |

Statement of Changes in Net Position (in thousands)

- The Green Bank had operating revenues of approximately \$53MM for the year ended June 30, 2020 which was an increase from the prior year of approximately \$7.5MM. This was mainly due to an increase in REC sales of \$2.8MM, RGGI auctions revenue of \$2.5MM, and sales of energy systems of \$1.2MM.
- Total operating expenses increased approximately \$5MM during 2020, due mainly to the increase in pension and OPEB expense of \$1.4MM and an increase in the provision for loan losses of \$2.8MM.

| | 2020 | 2019 | Increase (Decrease) |
|---|-----------|-----------|------------------------|
| Revenues | | | |
| Utility remittances | \$ 24,854 | \$ 26,095 | \$ (1,241) |
| Interest income-promissory note | 5,930 | 3,910 | 2,020 |
| Energy system sales | 4,006 | 2,796 | 1,210 |
| REC sales | 9,256 | 6,490 | 2,766 |
| Other revenues | 9,101 | 6,343 | 2,758 |
| Total revenues | 53,147 | 45,634 | 7,513 |
| Operating Expenses | | | |
| Cost of goods sold - energy systems | 4,006 | 2,877 | 1,129 |
| Provision for loan loss | 4,962 | 2,909 | 2,053 |
| Grants and incentive programs | 16,344 | 14,672 | 1,672 |
| Program administration expenses | 16,461 | 17,496 | (1,035) |
| General and administrative expenses | 6,936 | 5,723 | 1,213 |
| Total operating expenses | 48,709 | 43,677 | 5,032 |
| Operating Income | 4,438 | 1,957 | 2,481 |
| Non-Operating Revenues (Expenses) | | | |
| Interest earned | 341 | 416 | (75) |
| Interest expense | (3,395) | (1,984) | (1,411) |
| Investment loss | (120) | (104) | (16) |
| Debt issuance costs | (19) | (1,739) | 1,720 |
| Unrealized gain (loss) on interest rate swa | p (641) | (695) | 54 |
| Capital contribution | 453 | 1,696 | (1,243) |
| Distribution to member | (597) | (590) | , , , |
| Payments to State of Connecticut | | (14,000) | ` ' |
| Net Change | 460 | (15,043) | 15,503 |
| Net Position Beginning of Year | 76,282 | 91,325 | (15,043) |
| Net Position at End of Year | \$ 76,742 | \$ 76,282 | \$ 460 |

Statement of Changes in Net Position (in thousands)

Net Non-Operating Revenues
 (Expenses) were approximately
 (\$3.9MM) net expenses in FY20
 versus (\$17MM) net expense in
 FY19. The decrease from the
 prior year is mostly attributable to
 the \$14MM payment to the State
 of Connecticut.

| | | 2020 | | 2019 | Increase (Decrease) |
|---|----|---------|----|-----------|------------------------|
| Revenues | | | | | |
| Utility remittances | \$ | 24,854 | \$ | 26,095 \$ | (1,241) |
| Interest income-promissory note | | 5,930 | | 3,910 | 2,020 |
| Energy system sales | | 4,006 | | 2,796 | 1,210 |
| REC sales | | 9,256 | | 6,490 | 2,766 |
| Other revenues | | 9,101 | | 6,343 | 2,758 |
| Total revenues | | 53,147 | _ | 45,634 | 7,513 |
| Operating Expenses | | | | | |
| Cost of goods sold - energy systems | | 4,006 | | 2,877 | 1,129 |
| Provision for loan loss | | 4,962 | | 2,909 | 2,053 |
| Grants and incentive programs | | 16,344 | | 14,672 | 1,672 |
| Program administration expenses | | 16,461 | | 17,496 | (1,035) |
| General and administrative expenses | | 6,936 | | 5,723 | 1,213 |
| Total operating expenses | | 48,709 | _ | 43,677 | 5,032 |
| Operating Income | | 4,438 | | 1,957 | 2,481 |
| Non-Operating Revenues (Expenses) | | | | | |
| Interest earned | | 341 | | 416 | (75) |
| Interest expense | | (3,395) | | (1,984) | (1,411) |
| Investment loss | | (120) | | (104) | (16) |
| Debt issuance costs | | (19) | | (1,739) | 1,720 |
| Unrealized gain (loss) on interest rate swa | ар | (641) | | (695) | 54 |
| Capital contribution | | 453 | | 1,696 | (1,243) |
| Distribution to member | | (597) | | (590) | (7) |
| Payments to State of Connecticut | | | | (14,000) | 14,000 |
| Net Change | | 460 | | (15,043) | 15,503 |
| Net Position Beginning of Year | | 76,282 | | 91,325 | (15,043) |
| Net Position at End of Year | \$ | 76,742 | \$ | 76,282 \$ | 460 |

» Qualitative Aspects of Accounting Practices

- » Management is responsible for the selection and use of appropriate accounting policies.
 - We noted no transactions entered into the Green Bank during the year for which there is a lack of authoritative guidance or consensus.
 - All significant transactions have been recognized in the financial statements in the proper period.

- » Qualitative Aspects of Accounting Practices (continued).
- Accounting Estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. The most sensitive estimates affecting the financial statements were as follows:
 - Loan Loss Reserves Managements estimate is based on certain historical data and currently known information related to amounts written off or deemed uncollectable.
 - SWAP Fair Value Calculation Managements estimate is based on a third party valuation performed by
 - Net Pension & OPEB Liability Management's estimate of the net pension and net OPEB liabilities are based on an actuarial valuation utilizing various assumptions and estimates approved by management and/or the State of Connecticut.
 - Asset Retirement Obligation- Management's estimate of the asset retirement obligation is based upon amounts calculated by management.



» Qualitative Aspects of Accounting Practices (continued).

- -We evaluated the key factors and assumptions used to develop the sensitive estimates in determining that they are reasonable in relation to the financial statements taken as a whole.
- -The financial statement disclosures are neutral, consistent and clear. There were no sensitive disclosures affecting the financial statements.

- » Difficulties Encountered in Performing the Audit Professional standards require us to communicate any significant difficulties encountered with management encountered during the performance of our audit.
 - We encountered no significant difficulties in dealing with management in performing and completing our audit.
- Corrected and Uncorrected Misstatements Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are trivial, and communicate them to the appropriate level of management.
 - No uncorrected misstatement were identified in connection with our audit of the financial statements for the fiscal year ended June 30, 2020.



- » Disagreements with Management— Professional standards require us to communicate any disagreement(s) with management regarding financial accounting, reporting or auditing matter, whether or not resolved to our satisfaction that could be significant to the financial statements or the auditors' report.
 - We encountered no significant difficulties in dealing with management in performing and completing our audit.
- » Management Representations
 - Management representations will be obtained prior to final issuance.

- » Management Consultations with Other Independent Accountants.
 - In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the governmental unit's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts.
 - To our knowledge no such consultations occurred.
- » Audit discussion related to GAAP, GAAS and other matters.
 - We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the governmental unit's auditors.
 - Any such discussion that occurred took place in the normal course of our professional relationship and our responses were not a condition to our retention.



» Other Matters

- With respect to the supplementary information accompanying the financial statements, we made certain inquiries of management and evaluated the form, content and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements.
 - We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

» Restriction of Use

 This information is intended solely for the information and use of the Audit Compliance and Governance Committee and management of Connecticut Green Bank, and is not intended to be and should not be used by anyone other than these specified parties.

» Closing

BlumShapiro would like to thank the professional staff of Connecticut Green Bank that participated
with us in the performance of the audit. CGB's staff was very responsive and helpful to our inquiries
and requests which allowed both BlumShapiro and management to meet the financial reporting
deadlines that had been established.



Contact Information

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Thank You

(A COMPONENT UNIT OF THE STATE OF CONNECTICUT)

COMPREHENSIVE ANNUAL FINANCIAL REPORT

FISCAL YEAR ENDED JUNE 30, 2020 (With Summarized Totals as of and for Fiscal Year Ended June 30, 2019)

Department of Finance and Administration 845 Brook Street Rocky Hill, Connecticut

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INTRODUCTORY SECTION



CONNECTICUT GREEN BANK

845 Brook Street, Rocky Hill, CT 06067 T 860.563.0015 ctgreenbank.com

October 28, 2020

We are pleased to present a Comprehensive Annual Financial Report (CAFR) of the Connecticut Green Bank (Green Bank) for the fiscal year ending June 30, 2020 accompanied by summarized totals as of and for the fiscal year ended June 30, 2019.

Management assumes full responsibility for the completeness and reliability of the information contained in this report based upon a comprehensive framework of internal controls that it has established for this purpose. To provide a reasonable basis for making these representations, the management of Green Bank has established a comprehensive internal control framework that is designed both to protect the entity's assets from loss, theft, or misuse, and to compile sufficient reliable information for the preparation of Green Bank's financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP). Because the cost of internal controls should not outweigh the benefits, Green Bank's comprehensive framework of internal controls has been designed to provide reasonable, rather than absolute assurance that the financial statements will be free from material misstatement. As such, management asserts that this financial report is complete and reliable in all material respects to the best of managements' knowledge and belief.

Blum, Shapiro & Company, P.C., has issued an unmodified opinion on the Green Bank's financial statements for the fiscal year ending June 30, 2020. The independent auditors' report is presented in the financial section of this report. This letter of transmittal is designed to complement the Management's Discussion and Analysis (MD&A) and should be read in conjunction with it. The Green Bank's MD&A can be found immediately following the report of the independent auditors. Kestrel Verifiers has issued an independent opinion that the metrics, data collection, calculation methodologies, and transparency for the social benefits supported by the Green Bank are sound and represent best practice. The independent opinion is presented in the non-financial statistics section of this report.

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Connecticut Green Bank for its comprehensive annual report for the fiscal years ending June 30, 2014 through June 30, 2019. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

Profile of the Connecticut Green Bank

The Green Bank¹ was established in a bipartisan manner by the Governor and Connecticut's General Assembly on July 1, 2011 through Public Act 11-80 as a quasi-public agency that supersedes the former Connecticut Clean Energy Fund. As the nation's first state green bank, the Connecticut Green Bank makes green energy more accessible and affordable for all Connecticut citizens and businesses by creating a thriving marketplace to accelerate the growth of green energy. We facilitate green energy deployment by leveraging a public-private financing model that uses limited public dollars to attract private capital investments. By partnering with the private sector, we create solutions that result in long-term, affordable financing to increase the number of green energy projects statewide.

As outlined in its Comprehensive Plan: Green Bonds Us,² the Green Bank's vision is a world empowered by the renewable energy of community. The Green Bank's mission is to confront climate change and provide all of society a healthier and more prosperous future by increasing and accelerating the flow of private capital into markets that energize the green economy.

To achieve its vision and mission, the Green Bank has established the following three goals:

- 1. To leverage limited public resources to scale-up and mobilize private capital investment in the green economy of Connecticut.
- 2. To strengthen Connecticut's communities by making the benefits of the green economy inclusive and accessible to all individuals, families, and businesses.
- 3. To pursue investment strategies that advance market transformation in green investing while supporting the organization's pursuit of financial sustainability.

These goals support the implementation of Connecticut's clean energy policies be they statutory (e.g., Public Act 11-80, Public Act 13-298, Public Act 15-194), planning (e.g., Comprehensive Energy Strategy, Integrated Resources Plan), or regulatory (e.g., Docket No. 17-12-03) in nature. The powers of the Green Bank are vested in and exercised by a Board of Directors that is comprised of eleven voting and one non-voting members each with knowledge and expertise in matters related to the purpose of the organization. The Board of Directors and Staff are governed through the statute, as well as an Ethics Statement and Ethical Conduct Policy, Resolutions of Purposes, Bylaws, and Comprehensive Plan.

ii

¹ Public Act 11-80 repurposed the Connecticut Clean Energy Fund (CCEF) administered by Connecticut Innovations, into a separate quasipublic organization called the Clean Energy Finance and Investment Authority (CEFIA). Per Public Act 14-94, CEFIA was renamed to the Connecticut Green Bank.

https://ctgreenbank.com/wp-content/uploads/2020/07/Green-Bank Revised-Comprehensive-Plan 062620a.pdf

Initiatives and Results

Accelerate the Growth of Green Energy

The Green Bank makes green energy more accessible and affordable for all Connecticut citizens and businesses by creating a thriving marketplace to accelerate the growth of green energy. As a result of the efforts undertaken over the past nine years, we are deploying more green energy in our state than ever before (see Table 1).

Table 1. Project Investments between FY 2012 through FY 2020³

| | FY | FY | Total |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | Total |
| Total Investment (\$MM) | 312.5 | 337.4 | 231.6 | 190.9 | 323.0 | 322.8 | 107.1 | 111.1 | 9.9 | 1,946.3 |
| Green Bank Investment \$(MM) | 36.8 | 40.3 | 33.1 | 33.1 | 40.0 | 57.6 | 31.8 | 18.5 | 3.4 | 394.2 |
| Leverage Ratio | 8.5 | 8.4 | 7.1 | 5.8 | 8.1 | 5.6 | 3.4 | 6.0 | 2.9 | 6.6 |
| % of Funding as Grants | 45% | 40% | 39% | 38% | 50% | 57% | 65% | 67% | 100% | 44% |
| Installed Capacity (MW) | 81.6 | 68.4 | 56.9 | 50.2 | 66.1 | 62.4 | 23.4 | 23.5 | 1.9 | 434.3 |

By using \$394.2 million of ratepayer funds, we have helped attract \$1,552.1 million of private investment in green energy for a total investment of \$1.9 billion in Connecticut's economy. In addition, \$96.7 million in estimated tax revenues have been generated from this investment. This is supporting the deployment of 434.3 MW of renewable energy, producing and saving an estimated 59.4 million MMBtu and 18.5 million MWh of green energy and reducing an estimated 9.0 million tons of CO₂ emissions over the life of the projects, while creating over 20,000 job-years, and improving public health benefits by \$232.7 to \$525.4 million as a result of cleaner air.

Responsible Public Investment in Green Energy

The Green Bank receives funding through a number of sources, including a Systems Benefit Charge (i.e., Clean Energy Fund), allowance proceeds from the Regional Greenhouse Gas Initiative (RGGI), renewable energy certificate (REC) sales, interest income from its loans, and the federal government. The Green Bank's predecessor organization's programs were all structured as grants, which meant the funds were spent with no expectation of return. This model put the organization at the mercy of these funding streams which, while reliable, are largely determined by activities outside of our control such as levels of state electricity use and RGGI allowance prices. With the transition to a new financing model, the Green Bank is able to invest its funds in activities that earn a return and begin to build revenue streams that can be reinvested in green energy in Connecticut while strengthening the financing position of the organization.

_

³ Includes dosed transactions approved by the Board of Directors consistent with its Comprehensive Plan and Budget.

Acknowledgements

First and foremost, we would like to thank the Staff of the Connecticut Green Bank. Through their hard work, commitment and innovation, we are making progress towards \$2 billion of investment into Connecticut's economy and have built a model that is delivering results for our state and serving as a model across the country and around the world.

We are grateful to our independent auditors, Blum Shapiro & Company and Kestrel Verifiers, for their assistance and advice during the course of this audit and review, and for supporting our interests in continuing to disclose not only our financial position, but also the public benefits to society resulting from our public-private investments.

Finally, we thank the Board of Directors, Connecticut General Assembly, and the Governor for their continued leadership and guidance as we continue to prove that there is a new model for how government is able to play a part in deploying more green energy at a faster pace while using public resources responsibly.

Respectfully submitted,

Bryan T. Garcia President and CEO

Jane J. Murphy Vice President - Finance Fina

Board of Directors

Connecticut Green Bank

| Position | Status | Voting | Name | Organization |
|---|------------|--------|--|---|
| State Treasurer (or designee) | Ex Officio | Yes | Bettina Bronisz Steven Meier⁴ | Treasurer's Office |
| Commissioner of DEEP ⁵ (or designee) | Ex Officio | Yes | Mary Sotos Michael Li ^s | DEEP |
| Commissioner of DECD ⁷ (or designee) | Ex Officio | Yes | Binu Chandy | DECD |
| Residential or Low-Income Group | Appointed | Yes | Betsy Crum Brenda Watson ⁸ | Town of Snowmass Village Operation Fuel |
| Investment Fund Management | Appointed | Yes | (unfilled) | (unfilled) |
| Environmental Organization | Appointed | Yes | Matthew Ranelli ⁹ | Shipman & Goodwin |
| Finance or Deployment | Appointed | Yes | Thomas Flynn | Alvarez & Marsal |
| Finance of Renewable Energy | Appointed | Yes | Eric Brown ¹⁰ | Connecticut Business and Industry Association |
| Finance of Renewable Energy | Appointed | Yes | Kevin Walsh | GE Energy Financial Services |
| Labor Organization | Appointed | Yes | John Harrity ¹¹ | IAM Connecticut |
| R&D or Manufacturing | Appointed | Yes | Lonnie Reed ¹² | Former Chair of E&T Committee |
| President of the Green Bank | Ex Officio | No | Bryan Garcia | Connecticut Green Bank |

Discretely Presented Component Units

| | Position | Name | | |
|-------|--------------------------|----------------|--|--|
| | President | Bryan Garcia | | |
| | Treasurer | Jane Murphy | | |
| | Secretary | Brian Farnen | | |
| | Chief Investment Officer | Roberto Hunter | | |
| FORDI | | | | |

⁴ Steven Meier replaced Bettina Bronisz as of 5/1/20

⁵ Department of Energy and Environmental Protection

⁶ Michael Li replaced Mary Sotos as of 10/21/19

⁷ Department of Economic and Community Development

⁸ Brenda Watson was appointed on 2/9/20 by the Speaker of the House after Betsy Crum resigned on 2/8/20

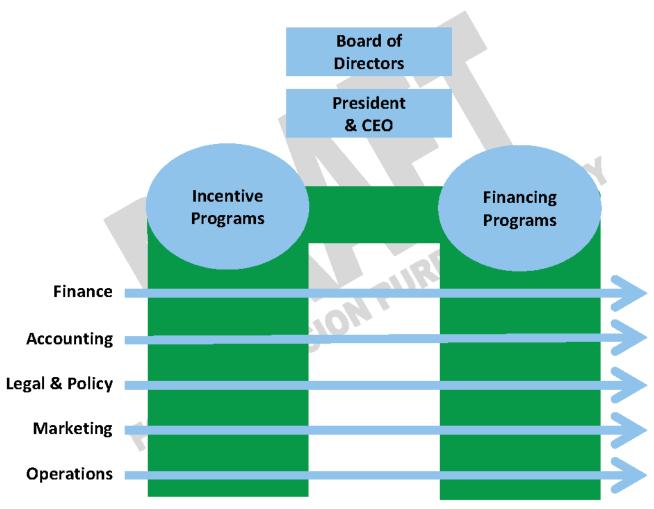
⁹ Secretary of the Board of Directors and Chairperson of the Audit, Compliance and Governance Committee

¹⁰ Chairperson of the joint committee of the EEO and CGB

¹¹ Chairperson of the Budget and Operations Committee

¹² Appointed by Governor Lamont and designated as Chair on 10/10/19

Organizational Chart





Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

Connecticut Green Bank

For its Comprehensive Annual Financial Report For the Fiscal Year Ended

June 30, 2019

Executive Director/CEO

Christophu P. Morrill

FINANCIAL SECTION



Independent Auditors' Report

To the Board of Directors Connecticut Green Bank Rocky Hill, Connecticut

Report on the Financial Statements

We have audited the accompanying consolidating financial statements of the business-type activities and discretely presented component units of the Connecticut Green Bank (a component unit of the State of Connecticut) as of and for the fiscal year ended June 30, 2020, and the related notes to the consolidating financial statements, which collectively comprise the Green Bank's basic financial statements, as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these consolidating financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidating financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these consolidating financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidating financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidating financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the consolidating financial statements whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and presentation of the consolidating financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidating financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the consolidating financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and the discretely presented component units of the Connecticut Green Bank as of June 30, 2020, and the respective changes in financial position and cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, and the pension and OPEB schedules, as listed In the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the financial statements, is required by the Governmental Accounting Standards Board, which considers it to be an essential part of financial reporting for placing the financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the consolidating financial statements, and other knowledge we obtained during our audit of the consolidating financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the consolidating financial statements that collectively comprise Connecticut Green Bank's basic financial statements. The introductory section, financial statistical section and other statistical section are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The introductory section, financial statistical section and other statistical section have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

We also previously audited, in accordance with auditing standards generally accepted in the United States of America, the consolidating financial statements of the Connecticut Green Bank as of and for the year ended June 30, 2019 (not presented herein), and have issued our report thereon dated October 31, 2019, in which we expressed unmodified opinions on the respective consolidating financial statements of the business-type activities and the discretely presented component units. That audit was conducted for the purpose of forming an opinion on the consolidating financial statements as a whole. The accompanying summarized comparative information as of and for the year ended June 30, 2019 is presented for purposes of additional analysis and is not a required part of the consolidating financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the 2019 consolidating financial statements. The accompanying summarized comparative information has been subjected to the auditing procedures applied in the audit of the 2019 and 2020 consolidating financial statements and certain additional procedures including comparing and reconciling such information directly to the underlying accounting and other records used to prepare those consolidating financial statements or to those consolidating financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the summarized comparative information as of and for the year ended June 30, 2019 is fairly stated in all material respects in relation to the consolidating financial statements from which it has been derived.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 31, 2020 on our consideration of the Connecticut Green Bank's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Connecticut Green Bank's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Connecticut Green Bank's internal control over financial reporting and compliance.

West Hartford, Connecticut October 31, 2020

CONNECTICUT GREEN BANK

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following Management's Discussion and Analysis (MD&A) provides an overview of the financial performance of the Connecticut Green Bank (the Green Bank), formerly known as the Clean Energy Finance and Investment Authority, (a component unit of the State of Connecticut) for the fiscal year ended June 30, 2020. The information contained in this MD&A should be considered in conjunction with the information contained in the financial statements and notes to the financial statements included in the "Basic Financial Statements" section of this report.

The Green Bank as a reporting entity is comprised of the primary government and three discretely presented component units as defined under Government Auditing Standards Board Statement ('GASB') No. 61: The Financial Reporting Entity: Omnibus and Amendment of GASB Statements No. 14 and No. 34.

This MD&A discusses financial performance of both the primary government, the Green Bank, and its discretely presented component units, CT Solar Lease 2 LLC, CT Solar Lease 3 LLC and CEFIA Solar Services Inc. We are including the performance of these component units in the consolidated data tables included in this analysis because they play an integral part in assisting the Green Bank in achieving its goal to deploy renewable energy in the State of Connecticut and to omit them from the analysis would not provide a complete picture of the Green Bank's activities. Where possible we have distinguished activity pertaining solely to a component unit or the primary government in the discussion that follows.

FINANCIAL STATEMENTS PRESENTED IN THIS REPORT

On June 6, 2014, Public Act 14-94 of the State of Connecticut changed the name of the Clean Energy Finance and Investment Authority to the Connecticut Green Bank.

The Green Bank is a quasi-public agency of the State of Connecticut established on July 1, 2011 by Section 16-245n of the Connecticut General Statutes ('CGS'), created for the purposes of, but not limited to: (1) implementing the Comprehensive Plan developed by the Green Bank pursuant to Section 16-245n(c) of the CGS, as amended; (2) developing programs to finance and otherwise support clean energy investment in residential, municipal, small business and larger commercial projects, and such others as the Green Bank may determine; (3) supporting financing or other expenditures that promote investment in clean energy sources to foster the growth, development and commercialization of clean energy resources and related enterprises; and (4) stimulating demand for clean energy and the deployment of clean energy sources within the state that serve end-use customers in the State. The Green Bank constitutes the successor agency to Connecticut Innovations for the purposes of administering the Connecticut Clean Energy Fund in accordance with section 4-38d of the CGS and therefore the net position of such fund was transferred to the newly created the Green Bank as of July 1, 2011.

The basic financial statements include: Statement of Net Position, Statement of Revenues, Expenses and Changes in Net Position, and the Statement of Cash Flows. The Statement of Net Position provides a measure of the Green Bank's economic resources. The Statement of Revenues, Expenses and Changes in Net Position measures the transactions for the periods presented and the impact of those transactions on the resources of the Green Bank. The Statement of Cash Flows reconciles the changes in cash and cash equivalents with the activities of the Green Bank for the period presented. The activities are classified as to operating, noncapital financing, capital and related financing, and investing activities.

Notes to the basic financial statements provide additional detailed information to supplement the basis for reporting and nature of key assets and liabilities.

MANAGEMENT'S DISCUSSION AND ANALYSIS

FINANCIAL HIGHLIGHTS OF FISCAL 2020

NET POSITION

The Green Bank's net position, which is reflective of the reporting entity's overall financial position. increased year over year. Net position as of June 30, 2020 and 2019 was \$76,7 million and \$76,3 million. respectively, an increase of \$0.5 million. Unrestricted net position increased to \$(2.8) million as of June 30, 2020 as compared to \$(6.0) million as of June 30, 2019, an increase of \$3.2 million. Contributing to this increase was a \$3.2 million increase in SHREC AB1 1 LLC's net position due to lower bond obligations of \$2.2 million and a \$1.0 million increase in unrestricted cash from residual funds received after quarterly bond payments were satisfied. Nonexpendable restricted net position decreased to \$64.4 million as of June 30, 2020 as compared to \$66.9 million as of June 30, 2019, a decrease of \$2.5 million. Contributing to this decrease was a reduction in CT Solar Lease 2 LLC's tax equity partner's capital account of \$2.1 million driven by current year non-cash program losses. Net position restricted for energy programs decreased to \$10.6 million as of June 30, 2020 as compared to \$11.5 million as of June 30, 2019, a decrease of \$0.9 million. Contributing to this decrease was a reduction in the Green Bank's restricted cash due to payments from Clean Renewable Energy Bond proceeds of \$1.7 million to construct solar PV facilities on campuses in the State of Connecticut's system of colleges and universities ('CSCU') and a reduction of \$1.0 million for the transfer of the Kresge Foundation loan to a strategic partner. These decreases were partially offset by a \$2.0 million increase in SHREC receipts held in SHREC Warehouse 1 LLC as collateral for a Line of Credit. Note 18 Restricted Net Position provides a breakout by dollar amount of cash balances restricted for these programs.

Green Bank assets increased \$2.3 million in fiscal year 2020 to \$213.3 million. As of June 30, 2019, assets totaled \$211.0 million. Program Loans increased by \$17.1 million due to increases in Low- and Moderate-income lending of \$5.0 million, Commercial solar PV asset sale financing of \$4.1 million, Multifamily lending of \$2.7 million, Fuel Cell financing of \$2.3 million, CPACE lending facilities of \$1.8 million, CPACE benefit assessment financing of \$0.6 million and hydropower financing of \$0.6 million.

Unrestricted cash and cash equivalents decreased \$10.7 million to \$8.2 million as of June 30, 2020 compared to \$18.9 million as of June 30, 2019 and restricted cash and cash equivalents decreased \$1.7 million to \$15.0 million as of June 30, 2020 from \$16.7 million as of June 30, 2019. The net decrease in unrestricted cash was primarily the result of normal operating activities. The net decrease in restricted cash was driven by disbursements to contractors for construction of CSCU solar PV systems and the transfer of the \$1.0 million Kresge Loan to a strategic partner.

Investments in capital assets net of depreciation decreased \$0.5 million to \$80.0 million as of June 30, 2020 from \$80.5 million as of June 30, 2019. This decrease was due depreciation expense for the total reporting entity of \$3.1 million, partially offset by an increase to capital assets of \$2.6 million due to energizing the final CSCU solar PV system.

Green Bank liabilities increased by \$1.8 million in fiscal year 2020 to \$146.9 million as of June 30, 2020 from \$145.1 million as of June 30, 2019. Current liabilities, comprised of current maturities of long-term debt, accounts payable and accrued expenses, line of credit and custodial liabilities increased \$5.0 million to \$21.8 million as of June 30, 2020 compared to \$16.8 million as of June 30, 2019. Lines of credit increased by \$6.1 million due to draws on the \$14.0 million SHREC Warehouse 1 LLC Line of Credit with Webster Bank and Liberty Bank. Custodial liabilities decreased by \$1.0 million to \$1.7 million as of June 30, 2020 from \$2.7 million as of June 30, 2019 due to recognition of deferred payments to contractors for construction of the CSCU solar PV systems.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The Green Bank's allocation of the State of Connecticut State Employee Retirement System unfunded pension liability, as calculated under GASB statement 68 decreased \$0.6 million in to \$25.2 million as of June 30, 2020 compared to \$25.8 million as of June 30, 2019. The related Deferred Outflows of Resources, which represents timing differences in plan earnings, assumptions and Green Bank pension contributions decreased \$1.5 million to \$6.3 million as of June 30, 2020 compared to \$7.8 million as of June 30, 2019. Note 16 provides further detail regarding the pension plan. The primary government is responsible for this pension obligation.

The Green Bank's allocation of the State of Connecticut State Employee Retirement System unfunded retiree healthcare (OPEB) liability, as calculated under GASB statement 75 increased \$4.5 million to \$28.5 million as of June 30, 2020 compared to \$24.0 million as of June 30, 2019. The related Deferred Outflows of Resources, which represents timing differences in plan earnings, assumptions and Green Bank OPEB contributions increased \$3.5 million to \$5.2 million as of June 30, 2020 compared to \$1.7 million as of June 30, 2019. Note 17 provides further detail regarding the OPEB plan. The primary government is responsible for this OPEB obligation.

Long term debt decreased \$7.6 million to \$65.4 million as of June 30, 2020 as compared to \$73.0 million as of June 30, 2019. The decrease is due to Green Bank principal payments of \$2.2 million against the \$38.6 million SHREC Collateralized Notes issued during 2019, transfer of the \$1.0 million Kresge loan to a strategic partner, payoff of the Reinvestment Fund and Solar Mosaic notes totaling \$1.5 million and principal payments of \$0.6 million on the Meriden Hydro and CSCU Clean Renewable Energy Bonds ('CREBs'). An additional \$2.3 million decrease resulted from repayments of principal by CT Solar Lease 2 LLC of funds borrowed under its credit facility with Key Bank and Webster Bank.

As of June 30, 2020, the Green Bank's unfunded contingent grant and loan commitments, which are obligations of the primary government, the majority of which represent Performance Based Incentive ('PBI') payments to third party owners of solar facilities as described in Note 15, totaled \$64.2 million. These grant and loan commitments are expected to be funded over the next one to six years from current and future unrestricted cash balances.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following table summarizes the net position of the reporting entity at June 30, 2020 and 2019:

| | | Discretely Presented | | | | | Discretely Presented | | | | | Discretely Presented | | |
|--|-----------------------|-------------------------|------------------------|---------|-----|----------------------|-------------------------|------------------------|---------|-----|-----------------------|-------------------------|------------------------|------------------------|
| | Primary Government | Component Units | Eliminating Entries | 2020 | g | Primary overnment | Component Units | Eliminating Entries | 2019 | 9 | Primary Sovernment | Component Units | Eliminating Entries | Increase (Decrease) |
| Cash and cash equivalents-unrestricted | \$ 5,473 \$ | 2,683 \$ | - \$ | 8,156 | \$ | 17,054 \$ | 1,893 \$ | - \$ | 18,947 | \$ | (11,581) \$ | 790 \$ | - \$ | (10,791) |
| Cash and cash equivalents-restricted | 10,857 | 4,053 | - | 14,910 | | 11,925 | 4,7 43 | _ | 16,668 | | (1,068) | (690) | - | (1,758) |
| Bonds receivable | 3,031 | | - | 3,031 | | 3,289 | | _ | 3,289 | | (258) | | - | (258) |
| Solar lease notes | 4,948 | | - | 4,948 | | 6,303 | | - | 6,303 | | (1,355) | | - | (1,355) |
| Promissory notes | 2,518 | | - | 2,518 | | 3,508 | | | 3,508 | | (990) | | - | (990) |
| Program loans | 85,682 | | | 85,682 | | 68,557 | | | 68,557 | | 17, 125 | | | 17, 125 |
| Capital assets, net | 14, 169 | 74,780 | (8,977) | 79,972 | | 12,496 | 77,346 | (9,319) | 80,523 | | 1,673 | (2,566) | 342 | (551) |
| Other assets | 48,780 | 44,643 | (79,342) | 14,081 | - | 47,705 | 45,196 | (79,668) | 13,233 | - | 1,075 | (553) | 326 | 848 |
| Total Assets | 175,458 | 126, 158 | (88,319) | 213,297 | _ | 170,837 | 129,178 | (88,987) | 211,028 | 4 | 4,621 | (3,020) | 668 | 2,269 |
| Deferred Outflows of Resources | | | | | | | | | | | | | | |
| Deferred amount for pensions | 6,266 | _ | _ | 6,266 | | 7,756 | | | 7,756 | | (1,490) | | _ | (1,490) |
| Deferred amount for OPEB | 5,189 | _ | - | 5,189 | - 4 | 1,732 | | | 1,732 | | 3,457 | | _ | 3,457 |
| Deferred amount for asset retirement obligations | _ | 2,658 | _ | 2,658 | 1 | _ | 2,828 | | 2,828 | | - | (170) | _ | (170) |
| Deferred payments to State of Connecticut | | | | | _ | | | | | | _ | | | |
| Total deferred outflows of resources | 11,455 | 2,658 | | 14,113 | _ | 9,488 | 2,828 | | 12,316 | - | 1,967 | (170) | | 1,797 |
| Current liabilities | 18,204 | 51,688 | (48,078) | 21,814 | | 13,598 | 51,642 | (48, 404) | 16,836 | | 4,606 | 46 | 326 | 4,978 |
| Uneamed revenue | _ | 801 | | 801 | | _ | 880 | | 880 | | _ | (79) | _ | (79) |
| Pension liabilities | 25,174 | _ | \ - | 25,174 | | 25,805 | - L | _ | 25,805 | | (631) | | _ | (631) |
| OPEB liabilities | 28,485 | - | - | 28,485 | | 24,000 | | | 24,000 | | 4,485 | | _ | 4,485 |
| Other long term liabilities | _ | 4,108 | - | 4,108 | | - ' | 4,012 | - | 4,012 | | - | 96 | _ | 96 |
| Fairvalue of interest rate swap | | 1,164 | 4 | 1,164 | | _ | 523 | - | 523 | | - | 641 | - | 641 |
| Long term debt, less current maturities | 44,689 | 20,716 | <u> </u> | 65,405 | - | 49,989 | 23,060 | | 73,029 | _ | (5,280) | (2,344) | | (7,624) |
| Total liabilities | 116,552 | 78,477 | (48,078) | 146,951 | _ | 113,372 | 80,117 | (48, 404) | 145,085 | _ | 3,180 | (1,640) | 326 | 1,866 |
| Deferred Inflows of Resources | | | 1 | | | | | | | | | | - 4 | |
| Deferred amount for pensions | 1,380 | | - | 1,380 | | 81 | - 4 | | 81 | | 1,299 | | | 1,299 |
| Deferred amount for OPEB | 2,336 | | | 2,336 | N | 1,895 | | | 1,895 | | 441 | | | 441 |
| Total deferred outflows of resources | 3,716 | | _ | 3,7 16 | N= | 1,976 | | | 1,976 | | 1,740 | | | 1,740 |
| Not investment in capital assets Restricted Not Position: | 2,894 | 1,798 | (163) | 4,529 | | 2,512 | 1,451 | (189) | 3,794 | | 382 | 347 | 6 | 735 |
| Non-expendable | _ | 73,202 | (8,814) | 64,388 | | _ | 76,052 | (9, 150) | 66,902 | | | (2,850) | 336 | (2,514) |
| Restricted - energy programs | 10,462 | 123 | / - | 10,585 | | 11,408 | 129 | \ \= | 11,537 | | (946) | (6) | - | (952) |
| Unrestricted | 53,288 | (24,784) | (31,264) | (2,760) | - | 51,057 | (25,744) | (31,264) | (5,951) | 4 | 2,231 | 960 | | 3, 191 |
| Total NetPosition | \$ 66,644 \$ | 50,339 \$ | (40,241)\$ | 76,742 | \$_ | 64,977 \$ | 51,888_\$ | (40,583) \$ | 76,282 | \$_ | 1,667 \$ | (1,549)\$ | 342 \$ | 460 |

CHANGES IN NET POSITION

Operating revenues increased by \$5.8 million to \$53.1 million as of June 30, 2020 as compared to \$47.4 million as of June 30, 2019. Remittances to the primary government from utility companies representing the one mil per kilowatt hour charge to each end use customer of electric services in the State of Connecticut decreased \$1.2 million to \$24.9 million for the fiscal year ended June 30, 2020 as compared to \$26.1 million for the fiscal year ending June 30, 2019. Sales of Renewable Energy Credits (RECs) increased \$2.8 million to \$9.3 million in 2020 compared to \$6.5 million in 2019 primarily as a result of the inclusion of sales of RECs for Tranche 3 systems to the two public utility companies in Connecticut. Fiscal year 2019 only included sales of RECs for Tranche 1 and 2 systems. Proceeds received by the primary government from quarterly Regional Greenhouse Gas Initiative (RGGI) auctions increased \$2.5 million year over year with proceeds of \$4.6 million in fiscal year 2020 compared to proceeds of \$2.1 million in fiscal year 2019. The increase in proceeds is due to diversion of \$2.3 million in proceeds earmarked for the Green Bank into the State of Connecticut's general fund to meet projected budget shortfalls during fiscal year 2019. Sales of energy systems increased \$1.2 million to \$4.0 million in 2020 compared to \$2.8 million in 2019. The increase is due to sales of commercial Power Purchase Agreements ('PPA') projects to third-party renewable energy companies.

Total payments of grants and incentives to commercial, not for profit, municipal and residential owners by the primary government to install either solar PV systems or energy efficiency measures increased \$1.7 million to \$16.3 million in fiscal year 2020 compared to \$14.7 million for the fiscal year 2019. The increase is primarily due to higher PBI and Expected Performance-Based Buydown ('EPBB') solar PV payments under the Residential Solar Investment Program. PBI payments comprised the largest component of incentives paid out in both these fiscal years.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Program administration expenses decreased \$1.0 million to \$16.5 million in fiscal 2020 from \$17.5 million in fiscal 2019, a 6% decrease. General and administrative costs increased by \$1.2 million to \$6.9 million in fiscal year 2020 from \$5.7 million in fiscal year 2019, a 21% increase. Included in general and administrative costs for 2020 and 2019 is \$3.6 million and \$2.8 million respectively for the non-cash GASB 68 pension expense and GASB 75 OPEB expense allocated to the Green Bank by the State of Connecticut which is not an expense that is controllable by Green Bank management. General and Administrative expense excluding these non-cash charges for 2020 and 2019 were \$3.3 million and \$2.9 million, respectively. Provision for loan losses increased \$2.1 million to \$4.9 million in fiscal 2020 from \$2.9 million in fiscal 2019. The increase is due to higher reserves being provided for a larger program loan portfolio, as well as reserve increases due to anticipated loan payment deferrals as a result of COVID-19.

Interest earned on program investments and bank deposits increased \$1.9 million in fiscal 2020 to \$6.2 million compared to \$4.3 million in fiscal 2019 as a result of increased program loans and CPACE loans originated in the Green Bank's investment portfolio. Interest as a revenue source is expected to continue to increase in future years as the Green Bank expands its investment portfolio. Interest expense increased \$1.4 million to \$3.4 million from \$2.0 million due to interest on the SHREC Collateralized Notes. Debt issuance costs decreased \$1.7 million due to delay in issuing the Green Liberty Bonds due to COVID-19, see Note 21. Capital contributions decreased \$1.2 million to \$0.5 million from \$1.7 million due to final true-up contributions for the Solar Lease 3 program occurring in fiscal 2020. During fiscal 2019 a \$14.0 million payment was made to the State of Connecticut's general fund as a result of legislation enacted to meet projected budget shortfalls. No such payment was required to be made in fiscal 2020.

The following table summarizes the changes in net position between June 30, 2020 and 2019:

| | Primary <u>Governmen</u> t | | Eliminating Entries | 2020 | Primary Governmen | | Eliminating Entries | 2019 | Primary Governmen | Discretely Presented Component t Units | Eliminating Entries | Increase (Decrease) |
|--|-------------------------------|--------------|------------------------|---------|----------------------|-------------|------------------------|----------|----------------------|--|------------------------|------------------------|
| Revenues | | | | - 4 | | | | | | | | |
| Utility remittances | \$ 24,854 | \$ - 9 | - \$ | 24,854 | \$ 26,095 | \$ - 5 | 5 - \$ | 26,095 | \$ (1,241) | \$ - | \$ - 9 | (1,241) |
| Interest in come-promiss ory note | 5,929 | 0 | - | 5,930 | 3,908 | 1,736 | - | 5,644 | 2,021 | (1,736) | - | 286 |
| Energy system sales | 4,373 | | (367) | 4,006 | 4,834 | - | (2,038) | 2,796 | (461) | | 1,671 | 1,210 |
| RECsales | 7,975 | 1,281 | 4 100 | 9,256 | 5,349 | 1,141 | | 6,490 | 2,626 | 140 | - | 2,766 |
| Other revenues | 6,267 | 3,943 | (1,109) | 9,101 | 3,651 | 3,754 | (1,062) | 6,343 | 2,616 | 189 | (47) | 2,758 |
| Total revenues | 49,400 | 5,224 | (1,476) | 53,148 | 43,837 | 6,631 | (3,100) | 47,368 | 5,563 | (1,407) | 1,624 | 5,780 |
| Operating Expenses | | | | | | | | | | | | |
| Cost of goods sold - energy systems | 4,37 1 | | (365) | 4,006 | 4,601 | - | (1,724) | 2,877 | (230) | - | 1,359 | 1,129 |
| Provision for loan losses | 4,982 | - L | - | 4.962 | 2,909 | _ | | 2,909 | 2,053 | _ | - | 2,053 |
| Grants and incentive programs | 17,314 | | (970) | 16,344 | 15,598 | _ | (926) | 14,672 | 1,716 | - | (44) | 1,672 |
| Program administration expenses | 12,334 | 4,472 | (345) | 16,461 | 13,586 | 4,254 | (344) | 17,496 | (1,252) | 218 | (1) | (1,035) |
| General and administrative expenses | 6,702 | 37.4 | (139) | 6,936 | 5,485 | 37 4 | (136) | 5,723 | 1,217 | (0) | (3) | 1,213 |
| Total operating expenses | 45,683 | 4,846 | (1,819) | 48,709 | 42,179 | 4,628 | (3,130) | 43,677 | 3,504 | 218 | 1,311 | 5,032 |
| Operating Income | 3,717 | 378 | 343 | 4,438 | 1,658 | 2,003 | 30 | 3,691 | 9,066 | (1,189) | 2,935 | 10,812 |
| Non-Operating Revenues (Expenses) | | | | | | | | | | | | |
| Interest earned | 403 | 55 | (116) | 342 | 465 | (1,670) | (113) | (1,318) | (62) | 1,725 | (3) | 1,660 |
| Interest expense | (2,327) | (1,184) | 116 | (3,395) | (773) | (1,324) | 113 | (1,984) | (1,554) | 140 | 3 | (1,411) |
| Investment loss | (107) | (13) | - | (120) | (104) | - | - | (104) | (3) | (13) | - | (16) |
| Debt is suance costs | (19) | - | - | (19) | (1,739) | - | - | (1,739) | 1,720 | - | - | 1,720 |
| Unrealized gain (loss) on interest rate swap | - | (641) | - | (641) | - | (695) | - | (695) | - | 54 | - | 54 |
| Capital contribution | - | 453 | - | 453 | - | 2,855 | (1,159) | 1,696 | - | (2,402) | 1,159 | (1,243) |
| Distribution to member | - | (597) | - | (597) | (1) | (589) | - | (590) | 1 | (8) | - | (7) |
| Payments to State of Connecticut | | | <u> </u> | | (14,000) | | <u> </u> | (14,000) | 14,000 | | | 14,000 |
| Net Change | 1,667 | (1,550) | 343 | 460 | (14,494) | 580 | (1,129) | (15,043) | 23,168 | (1,695) | 4,094 | 25,567 |
| Net Position Beginning of Year | 64,977 | 51,889 | (40,584) | 76,282 | 79,471 | 51,309 | (39,455) | 91,325 | (14,494) | 580 | (1,129) | (15,043) |
| Net Position at End of Year | \$ 66,644 | \$ 50.339 \$ | (40.241) \$ | 76.742 | \$ 64.977 | \$ 51.889 5 | £ (40.584) \$ | 76282 | \$ 8.674 | \$ (1.115) | \$ 2,965 3 | 10524 |

MANAGEMENT'S DISCUSSION AND ANALYSIS

FINANCIAL HIGHLIGHTS OF FISCAL 2019

NET POSITION

The Green Bank's net position, which is reflective of the reporting entity's overall financial position. decreased year over year. Net position as of June 30, 2019 and 2018 was \$76.3 and \$91.3 million. respectively, a decrease of \$15 million. The Green Bank's net position as of June 30, 2018 was restated from \$89.4 million to \$91.3 million, an increase of \$1.9 million, to adjust net position for the proper reporting of prepaid warranty expenses in CT Solar Lease 2 LLC. The components of net position show that unrestricted net position decreased to (\$6.0) million as of June 30, 2019 as compared to \$3.3 million as of June 30, 2018, restated for warranty expenses, a decrease of \$9.3 million. Contributing to this decrease in unrestricted net position was a transfer of a portion of the primary government's available unrestricted cash balances into restricted cash balances to support the maintenance of loan loss reserves, interest rate buydowns, contractual obligations under the Clean Renewable Energy Bond and contractual obligations to maintain collateral accounts to support loan guarantees. This transfer is reflected in the component of net position designated as net position restricted for energy programs, which decreased \$7.7 million from \$19.3 million as of June 30, 2018 to \$11.5 million as of June 30, 2019. Restricted net position energy programs as of June 30, 2018 included \$9.1 million in proceeds received from the issuance of CREBs of which \$7.2 million was used in fiscal 2019 to construct solar PV facilities on campuses in the State of Connecticut's system of universities and colleges ('CSCU'). Restricted net position energy programs as of June 30, 2019 decreased by \$7.7 million due to construction payments issued for the CSCU Facilities. Note 18 Restricted Net Position provides a breakout by dollar amount of cash balances restricted for these programs. Also contributing to the decrease in unrestricted net position was payment of \$14 million to the State of Connecticut in fiscal 2019.

Green Bank assets increased \$25.0 million in fiscal year 2019 to \$211.0 million. As of June 30, 2018, assets totaled \$185.4 million. This was primarily the result of a \$18.0 million increase in CPACE loans, which includes \$14.4 million repurchase of assets previously sold to Hannon Armstrong, \$5.9 million in program loans made by the primary government to support renewable energy installations and energy efficiency upgrades for both residential and commercial property owners in Connecticut, and a \$3.5 million for purchases of SBEA promissory notes (see Note 8, SBEA Notes Receivable). These increases were partially offset by a \$1.7 decrease in CPACE sell down notes which were cancelled as a result of the Hannon Armstrong asset repurchase.

Investments in capital assets net of depreciation increased from \$73.4 million as of June 30, 2018 to \$80.5 million as of June 30, 2019, an increase of \$7.1 million. This increase was primarily due to energizing seven of the eight CSCU solar PV systems recorded on the Green Bank's books. The electricity generated by these facilities has been sold through power purchase agreements with CSCU. Revenues support payments of the CSCU CREBs bond.

Unrestricted cash and cash equivalents decreased \$0.9 million to \$18.9 million as of June 30, 2019 compared to \$19.8 million as of June 30, 2018 and restricted cash and cash equivalents decreased \$7.7 million to \$16.7 million as of June 30, 2019 from \$24.4 million as of June 30, 2018. The net decrease in unrestricted cash was primarily the result of normal operating activities. The net decrease in restricted cash was primarily the result of disbursements to contractors for construction of the CSCU solar PV systems.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Green Bank liabilities increased by \$23.4 million in fiscal year 2019 to \$145.1 million as of June 30, 2019 from \$121.7 million as of June 30, 2018. Current liabilities, comprised of current maturities of long-term debt, accounts payable and accrued expenses increased \$5.9 million to \$16.8 million as of June 30, 2019 compared to \$11 million as of June 30, 2018. Accounts payable and accrued expenses increased \$1.3 million from \$6.5 million in 2018 to \$7.8 million in 2019 primarily as a result of an increase in accrued performance-based incentives payable by the primary government to third party owners of PV systems at each respective year-end. The remaining increase of \$4.4 million resulted from an increase in the amount recorded for the current portion of long term debt maturing within a year in 2019 compared to 2018 primarily pertaining to SHREC Collateralized Notes, CT Solar Lease 2 LLC's debt facility used to finance its acquisition of Solar PV projects, and the CSCU CREBs bonds.

The Green Bank's allocation of the State of Connecticut State Employee Retirement System unfunded pension liability, as calculated under Government Accounting Standard Board (GASB) statement 68 increased \$1.2 million in fiscal year 2019 to \$25.8 million as of June 30, 2019 compared to \$24.6 million as of June 30, 2018. The related Deferred Outflows of Resources, which represents timing differences in plan earnings, assumptions and Green Bank pension contributions decreased \$1.0 million to \$7.8 million as of June 30, 2019 compared to \$8.8 million as of June 30, 2018. Note 16 provides further detail regarding the pension plan. The primary government is responsible for this pension obligation.

The Green Bank's allocation of the State of Connecticut State Employee Retirement System unfunded retiree healthcare (OPEB) liability, as calculated under Government Accounting Standard Board (GASB) statement 75 decreased \$0.9 million in fiscal year 2019 to \$24.0 million as of June 30, 2019 compared to \$24.9 million as of June 30, 2018. The related Deferred Outflows of Resources, which represents timing differences in plan earnings, assumptions and Green Bank OPEB contributions decreased \$0.3 million to \$1.7 million as of June 30, 2019 compared to \$2.0 million as of June 30, 2018. Note 17 provides further detail regarding the OPEB plan. The primary government is responsible for this OPEB obligation.

Long term debt increased \$34.5 million in fiscal year 2019 to \$73 million as of June 30, 2019 when compared to \$38.5 million as of June 30, 2018. During fiscal year 2019, the Green Bank issued \$38.6 million in SHREC Collateralized Notes, \$36.2 million of which is classified as long-term debt, and a \$1.0 million draw on the \$3.0 million Kresge loan facility. These increases in long term debt are partially offset by repayments of principal by CT Solar Lease 2 LLC of funds borrowed under its credit facility with KeyBank and Webster Bank, and reclassifications to current maturities of long-term debt for the Meriden Hydro and CSCU CREBs bonds.

As of June 30, 2019, the Green Bank's unfunded contingent grant and loan commitments, which are obligations of the primary government, the majority of which represent PBI payments to third party owners of solar facilities as described in Note 13, totaled \$76.6 million. These grant and loan commitments are expected to be funded over the next one to six years from current and future unrestricted cash balances.

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following table summarizes the net position of the reporting entity at June 30, 2019 and 2018:

| | Primary Government | Discretely Presented Component Units | Eliminating Entries | 2019 | Primary Governme | | Eliminating Entries | 2018 | Primary Government | Discretely Presented Component Units | Eliminating Entries | Increase (Decrease) |
|--|-----------------------|---|------------------------|-----------------|---------------------|----------------|------------------------|--------------|-----------------------|---|------------------------|------------------------|
| | 17,054 \$ | | - \$ | 18,947 | \$ 17,12 | | - \$ | 19,830 | \$ (72) | | - \$ | (883) |
| Cash and cash equivalents-restricted | 11,925 | 4,743 | - | 16,668 | 19,85 | | - | 24,368 | (7,932) | 232 | - | (7,700) |
| Bonds receivable | 3,289 | - | - | 3,289 | 3,32 | | - | 3,329 | (40) | | - | (40) |
| Fairvalue of interest rate swaps Solar lease notes | 6.303 | - | - | 6.303 | 7.26 | 171 | - | 171 7.267 | (964) | (17.1) | - | (171) |
| Promissory notes | 3,508 | - | - | 3,508 | 7,26 | - | - 1 | 7,207 | 3,508 | - | - | (964) 3,508 |
| Program loans | 3,00s 68,557 | - | | 3,506 68,557 | 45.66 | - | | 45.664 | 22.893 | - | - | 22,898 |
| Capital assets, net | 12,496 | 77,346 | (9.319) | 80,523 | 3,86 | | (9.350) | 73,417 | 8,628 | (1,553) | 31 | 7,106 |
| Other assets | 47,705 | 45.198 | (9,519) (79,668) | 13,233 | 3, 3. 47.27 | | (79,408) | 11.925 | 432 | 1.141 | (265) | 1,308 |
| Other Massets | 47,700 | 90,180 | (1.9,000) | 10,200 | - 47,21 | 3 44,000 | (19,400) | 11,920 | 402 | 1,141 | (200) | 1,506 |
| Total Assets | 17 0, 837 | 129, 178 | (88,987) | 211,028 | 144,38 | 130,340 | (88,753) | 185,971 | 26,453 | (1,162) | (234) | 25,057 |
| Deferred Outflows of Resources | | | | | | | | | | | | |
| Deferred amount for pensions | 7.756 | _ | _ | 7.756 | 8.77 | 9 - | - 1 | 8,779 | (1,023) | _ | _ | (1,023) |
| Deferred amount for OPEB | 1,732 | - | - | 1,732 | 1,99 | 9 - | _ | 1,999 | (267) | - | - | (267) |
| Deferred amount for as set retirement obligations | - | 2,828 | - | 2,828 | - L | 2,927 | - | 2,927 | | (99) | - | (99) |
| Deferred payments to State of Connecticut | - | | | | 14,00 | 0 - | - | 14,000 | (14,000) | | - | (14,000) |
| Total deferred outflows of resources | 9,488 | 2,828 | | 12,316 | 24,77 | 8 2,927 | | 27,705 | (15,290) | (99) | | (15,389) |
| | | | | | | | | | | | | |
| Current liabilities | 13,598 | 51,642 | (48, 404) | 16,836 | 9,66 | | (49,298) | 10,975 | 3,983 | 1,034 | 894 | 5,861 |
| Uneamedrevenue | - | 880 | - | 880 | 2,19 | | - | 3,144 | (2,190) | (7.4) | - | (2,264) |
| Pension liabilities | 25,805 | - | | 25,805 | 24,63 | | - | 24,636 | 1,169 | | - | 1,169 |
| OPEB liabilities | 24,000 | | | 24,000 | 24,87 | | - | 24,876 | (876) | - | - | (876) |
| Payment to State of Connecticut | | - | | 7 | 14,00 | | - | 14,000 | (14,000) | - | - | (14,000) |
| Other long term liabilities | | 4,012 | | 4,012 | - | 5,516 | - | 5,516 | - | (1,504) | - | (1,504) |
| Fairvalue of interest rate swap | | 523 | - 1 | 523 | | | - | - | | 523 | - | 523 |
| Long term debt, less current maturities | 49,989 | 23,080 | <u> </u> | 73,029 | 13,65 | 1 24,881 | <u> </u> | 38,532 | 36,318 | (1,821) | | 34,497 |
| Total liabilities | 113,372 | 80,117 | (48,404) | 145,085 | 89,01 | 8 81,959 | (49,298) | 121,679 | 24,354 | (1,842) | 894 | 23,406 |
| Deferred Inflows of Resources | | | | | | | | | | | | |
| Deferred amount for pensions | 81 | - | - | 81 | 4 | 7 - | - | 47 | 34 | | | 34 |
| Deferred amount for OPEB | 1,895 | | | 1,895 | 62 | 5 | | 625 | 1,270 | | | 1,270 |
| Total deferred outflows of resources | 1,976 | $\overline{}$ | _ | 1,976 | 67 | 2 - | | 672 | 1,304 | | - | 1,304 |
| Net investment in capital assets Restricted Net Position: | 2,512 | 1,451 | (169) | 3,794 | 98 | 4 1,459 | (172) | 2,251 | 1,548 | (8) | 3 | 1,543 |
| Non-expenidable | | 76,052 | (9,150) | 66,902 | | 6 75,578 | (9, 178) | 66,496 | (96) | 474 | 28 | 406 |
| Restricted - energy programs | 11,408 | 129 | - | 11,537 | 19,20 | | - 1 | 19,250 | (7,797) | 84 | - | (7,713) |
| Unrestricted | 5 1,057 | (25,744) | (31,264) | (5,951) | 59,20 | (25,774) | (30,105) | 3,328 | (8, 150) | 30 | (1,159) | (9,27.9) |
| Total Net Position | 64,977 \$ | 51,888 \$ | (40,583) \$ | 76,282 | \$ 79,47 | 2 \$ 51,308 \$ | (39,455)\$ | 91,325 | \$ (14,495) | 580 <u></u> | (1,128)\$ | (15,043) |

CHANGES IN NET POSITION

Operating revenues increased by \$5.6 million to \$47.4 million as of June 30, 2019 as compared to \$41.8 million as of June 30, 2018. Remittances to the primary government from utility companies representing the one mil per kilowatt hour charge to each end use customer of electric services in the State of Connecticut increased \$151,501 to \$26.1 million for the fiscal year ended June 30, 2019 as compared to \$25.9 million for the fiscal year ending June 30, 2018. Sales of Renewable Energy Credits (RECs) increased \$2.8 million to \$6.5 million in 2019 compared to \$3.7 million in 2018 primarily as a result of the inclusion of sales of RECs for Tranche 2 systems to the two public utility companies in Connecticut. Fiscal year 2018 only included sales of RECs for Tranche 1 systems. Proceeds received by the primary government from quarterly Regional Greenhouse Gas Initiative (RGGI) auctions increased \$0.9 million year over year with proceeds of \$2.1 million in fiscal year 2019 compared to proceeds of \$1.3 million in fiscal year 2018. The increase in proceeds can primarily be attributed to increasing auction clearing prices, despite the continued diversion of proceeds earmarked for the Green Bank into the State of Connecticut's general fund to meet projected budget shortfalls. Other income increased \$1.0 million to \$4.2 million in 2019 compared to \$3.2 million in 2018 primarily due to commencing of PPA billings for CSCU solar PV systems as well as one-time development fees paid by a third-party system purchaser. Provision for loan losses increased \$2.5 million to \$2.9 million in fiscal 2019 from \$0.4 million in fiscal 2018. The increase is due to a larger CPACE reserve required as a result of a larger portfolio, which includes the Hannon Armstrong repurchase, as well as increased program loan investments.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Total payments of grants and incentives to commercial, not for profit, municipal and residential owners by the primary government to install either solar PV systems or energy efficiency measures decreased \$3.2 million to \$14.7 million in fiscal year 2019 compared to \$17.9 million for the fiscal year 2018. The decrease is primarily due to lower interest rate buy downs related to the termination of the Smart-E buy down program. PBI payments comprised the largest component of incentives paid out in both these years.

Program administration expenses increased \$613 thousand to \$17.5 million in fiscal 2019 from \$16.9 million in fiscal 2018, a 1% increase. General and administrative costs increased by \$91,000 to \$5.7 million in fiscal year 2019 from \$5.6 million in fiscal year 2018, a 1.6% increase. Included in general and administrative costs for 2019 and 2018 is \$2.8 million and \$2.2 million respectively for the non-cash GASB 68 pension expense and GASB 75 OPEB expense allocated to the Green Bank by the State of Connecticut which is not an expense that is controllable by Green Bank management. General and Administrative expense excluding these non-cash charges for 2019 and 2018 were \$2.9 million and \$3.4 million, respectively.

Interest earned on program investments and bank deposits increased \$693,940 in fiscal 2019 to \$4.3 million compared to \$3.6 million in fiscal 2018 as a result of increased loans made in the Green Bank's investment portfolio, including interest from the repurchase of the Hannon Armstrong portfolio. Interest as a revenue source is expected to continue to increase in future years as the Green Bank expands its investment portfolio. Interest expense increased \$595,060 to \$2.0 million from \$1.4 million due to interest on the SHREC Collateralized Notes as well as the CREBs bonds. Unrealized gain / (loss) on interest rate swaps decreased \$1.4 million to \$(0.7) million in fiscal 2019 from \$0.7 million in fiscal 2018 due to fluctuations in interest rates.

The following table summarizes the changes in net position between June 30, 2019 and 2018:

| | Primary Government | | Eliminating Entries | 2019 | Primary Government | Discretely Presented Component Units | Eliminating Entries | 2018 | Primary Governme | | Eliminating Entries | Increase (Decrease) |
|--|-----------------------|---------------------|------------------------|----------|-----------------------|---|------------------------|----------|---------------------|-----------|------------------------|------------------------|
| Revenues | | | | | | | | | | | | |
| Utility remittances | \$ 26,095 | 5 - 9 | - \$ | 26,095 | \$ 25,943 | \$ -: | 5 - \$ | 25,943 | \$ 150 | 2\$ - | \$ - 9 | 152 |
| Interest income-promissory note | 3,908 | 1,736 | النظامة - | 5,644 | 3,292 | 1,637 | - | 4,929 | 61 | 3 99 | - | 715 |
| Energy system sales | 4,834 | | (2,038) | 2,796 | 13,559 | - | (10,777) | 2,782 | (8,72) | 5) - | 8,739 | 14 |
| REC sales | 5,349 | 1,141 | | 6,490 | 2,828 | 832 | - | 3,660 | 2,52 | 1 309 | - | 2,830 |
| Other revenues | 3,651 | 3,754 | (1,062) | 6,343 | 2,151 | 3,481 | (1,135) | 4,497 | 1,50 | 273 | 73 | 1,846 |
| Total revenues | 43,837 | 6,631 | (3,100) | 47,368 | 47,773 | 5,950 | (11,912) | 41,811 | (3,93 | 5) 681 | 8,812 | 5,557 |
| | | | | | | | | | | | | |
| Operating Expenses | | | | | | | | | | | | |
| Cost of goods sold - energy systems | 4,601 | | (1,724) | 2,877 | 12,980 | - | (9,982) | 2,998 | (8,37) | 9) - | 8,258 | (121) |
| Provision for loan loss | 2,909 | | - | 2,909 | 362 | - | - | 362 | 2,54 | - | - | 2,547 |
| Grants and incentive programs | 15,598 | - | (926) | 14,672 | 18,933 | - | (1,003) | 17,930 | (3,33) | 5) - | 77 | (3,258) |
| Program administration expenses | 13,586 | 4,254 | (344) | 17,496 | 13,206 | 4,003 | (326) | 16,883 | 38 | 251 | (18) | 613 |
| General and administrative expenses | 5,485 | 374 | (136) | 5,723 | 5,432 | 331 | (132) | 5,631 | 5 | 343_ | (4) | 92 |
| Total operating expenses | 42,179 | 4,628 | (3,130) | 43,677 | 50,913 | 4,334 | (11,443) | 43,804 | (8,73 | 4) 294 | 8,313 | (127) |
| | | | | | | | | | | | | |
| Operating Income | 1,658 | 2,003 | 30 | 3,691 | (3,140) | 1,616 | (489) | (1,993) | 4,79 | 3 387 | 499 | 5,684 |
| Non-Operating Revenues (Expenses) | | | | | | | | | | | | |
| Interest earned | 465 | (1,670) | (113) | (1,318) | 374 | (1,561) | (110) | (1,297) | 9 | 1 (109) | (3) | (21) |
| Interest expense | (773) | (1,324) | 113 | (1,984) | (173) | (1,326) | 110 | (1,389) | (60 | 0) 2 | 3 | (595) |
| Investment loss | (104) | | - | (104) | (510) | | - | (510) | 40 | s - | - | 406 |
| Debt issuance costs | (1,739) | - | - | (1,739) | | - | - | | (1,73 | 9) - | - | (1,739) |
| Unrealized gain (loss) on interest rate swap | | (695) | - | (695) | - | 7 12 | - | 7 12 | | - (1,407) | - | (1,407) |
| Capital contribution | _ | 2,855 | (1,159) | 1,696 | - | 9,599 | (7,423) | 2,176 | | - (6,744) | 6,264 | (480) |
| Distribution to member | (1) | (589) | | (590) | - | (540) | | (540) | (| 1) (49) | | (50) |
| Payments to State of Connecticut | (14,000) | | - | (14,000) | (14,000) | | - | (14,000) | | | - | |
| • | | | | | | | | | | | | |
| NetChange | (14,494) | 580 | (1,129) | (15,043) | (17,449) | 8,500 | (7,892) | (16,841) | 2,95 | 5 (7,920) | 6,763 | 1,798 |
| Net Position Beginning of Year | 79,471 | 51,309 | (39,455) | 91,325 | 96,919 | 42,810 | (31,563) | 108,166 | (17,44 | 8,499 | (7,892) | (16,841) |
| NetPosition at End of Year | \$64,977_: | \$ <u>51,889</u> \$ | (40,584) \$ | 76,282 | \$ 79,470 | \$51,310_: | \$ (39,455) \$ | 91,325 | \$(14,49 | 3) \$ 579 | \$ (1,129) \$ | (15,043) |

BASIC FINANCIAL STATEMENTS



| | | Discretely I | Presented Compo | on en t Units | | | |
|---|---|-------------------------|-------------------------------|-------------------------|------------------------|--------------------------------|--------------------------------|
| | Total Primary Government | CT Solar Lease 2 LLC | CEFIA Solar Services, Inc. | CT Solar Lease 3 LLC | Eliminating Entries | 2020 Total Reporting Entity | 2019 Total Reporting Entity |
| Assets | | | | | | | |
| Current Assets | | | | | | | |
| Cash and cash equivalents | \$ 5,473,330 \$ | 1,390,691 \$ | | | | \$ 8,1 56,09 3 \$ | |
| Accounts receivable | 3,127, 09 3 | 90,264 | 1,059 | 32,352 | | 3,250,768 | 1,774,990 |
| Utility remittance receivable | 2,214,775 | 532.185 | 2,600 | 313,254 | | 2,214,775 | 1,893,965 |
| Other receivables Due from component units | 1,449,996 40,099,971 | 305,079 | 7,672,744 | 313,204 | (48,077,794) | 2,298,035 | 3,004,780 |
| Prepaid expenses and other assets | 1,481,244 | 423,858 | 1,012,144 | 20,020 | (10,011,101) | 1,925,122 | 1,846,104 |
| Current maturities of prepaid warranty management | .,, | 259,148 | | | | 259,148 | 259,148 |
| Current portion of solar lease notes | 967,530 | | | | | 967,530 | 942,056 |
| Current partion of SBEA promissory notes | 1,549,492 | | | | | 1,549,492 | 1,709,491 |
| Current portion of program loans | 4,396,615 | 0.004.005 | | 1501171 | 140 077 700 | 4,396,615 | 3,756,932 |
| Total current assets | 60,760,046 | 3,001,225 | 7,799,930 | 1,534,171 | (48,077,794) | 25,017,578 | 34,134,680 |
| Noncurrent Assets | | | | | | | |
| Portfdio investments | 1 | , | | | | 1 | 1 |
| Bonds receivable | 3,031,134 | | | | | 3,031,134 | 3,288, 656 |
| Prepaid warranty management, less current portion | | 3,725,735 | | | | 3,725,735 | 3,984,883 |
| Solar lease notes, less current portion | 3,979,704 | | | | | 3,979,704 | 5,361,206 |
| SBEA promissory notes, less current portion Program loans, less current portion | 968, 60 8 81,285,2 0 6 | | | | | 968,608 81,285,206 | 1,799,007 64.800.014 |
| Renewable energy credits | 407,360 | | | | | 407,360 | 468,736 |
| Investment in component units | 100 | | 31,264,299 | | (31,264,399) | | |
| Capital assets, net of depreciation and | | | | | | | - 4 |
| amortization | 14,168,597 | 62,740,931 | 353,521 | 11,685,603 | (8,976,656) | 79,971,996 | 80,523,040 |
| Restricted assets: | ``` | | | | | | |
| Cash and cash equivalents | 10,856,841 | 3,969,667 | 83,000 | 44 805 880 | 140 544 055 | 14,909,508 | 16,667,797 |
| Total noncurrent assets | 114,697,551 | 70,436,333 | 31,700,820 | 11,685,603 | (40,241,055) | 188,279,252 | 176,893,340 |
| Total Assets | 175,457,597 | 73,437,558 | 39,500,750 | 13,219,774 | (88,318,849) | 213,296,830 | 211,028,020 |
| Deferred Outflows of Resources | | | | | | | |
| Deferred amount for pensions | 6,265,821 | | | | | 6,265,821 | 7,756,235 |
| Deferred amount for OPEB | 5,189,388 | | | | | 5,189,388 | 1,732,147 |
| Deferred amount for asset retirement obligations | \rightarrow | 2,111,306 | | 546,837 | | 2,658,143 | 2,828,461 |
| Total Deferred Outflows of Resources | 11,455,209 | 2,111,306 | | 546,837 | | 14,113,352 | 12,316,843 |
| Total Deferred Outflows of Resources | | | | 9 | | | |
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| | | Discretely F | Presented Compo | nent Units | | | |
|--|-----------------------------|-------------------------|-------------------------------|-------------------------|------------------------|--------------------------------|--------------------------------|
| | Total Primary Government | CT Solar Lease 2 LLC | CEFIA Solar Services, Inc. | CT Solar Lease 3 LLC | Eliminating Entries | 2020 Total Reporting Entity | 2019 Total Reporting Entity |
| Liabilities and Net Position | | | | | | | |
| Liabilities | | | | | | | |
| Current maturities of long-term debt | \$ 2,775,916 \$ | 1,600,000 \$ | 94,788 \$ | : 1 | 5 \$ | 4,470,704 \$ | 4,598,103 |
| Current maturities of warranty management | | 1,669,539 | | | | 1,669,539 | 1,669,539 |
| Accounts payable and accrued expenses | 7,349,085 | 388,959 | 126,508 | 32,835 | | 7,897,387 | 7,873, 645 |
| Due to component units | 302,575 | 10,411,419 | 37,3 60,662 | 3,138 | (48,077,794) | - | - |
| Line of credit Custodial liability | 6,100,000 1,676,674 | | | | | 6,100,000 1,676,674 | 2,695,326 |
| Unearned revenue | 1,070,074 | 722, 56 3 | | 78,698 | | 801,261 | 2,050,520 879,512 |
| Total current liabilities | 18,204,250 | 14,792,480 | 37,581,958 | 114,671 | (48,077,794) | 22,615,565 | 17,716,125 |
| | | | | | | | |
| Asset retirement obligation | | 3,244,106 | | 675,882 | | 3,919,988 | 3,824,355 |
| Long-term debt, less current maturities | 44,689,065 | 19,254,240 | 1,461,353 | | | 65,404,658 | 73,028,810 |
| Warranty management, less current maturities Fair value of interest rate swap | | 187,934 1,164,356 | | | | 187,934 1,164,356 | 187,934 5 23,224 |
| Pension liability | 25,174,453 | 1,104,550 | | | | 25,174,453 | 25,805,346 |
| OPEB liability | 28,484,971 | | | | | 28,484,971 | 24,000,448 |
| Total noncurrent liabilities | 98,348,489 | 23,850,636 | 1,461,353 | 675,882 | - | 124,336,360 | 127,370,117 |
| | | | | | | | |
| Total Liabilities | 116,552,739 | 38,643,116 | 39,043,311 | 790,553 | (48,077,794) | 146,951,925 | 145,086,242 |
| Deferred Inflows of Resources | | | | | | | |
| Deferred amount for pensions | 1,380,337 | | | | 1 | 1,380,337 | 80,906 |
| Deferred amount for OPEB | 2,336,216 | | | | | 2,336,216 | 1,895,599 |
| Total deferred inflows of resources | 3,716,553 | | | | | 3,716,553 | 1,976,505 |
| | | | | | | | |
| NetPosition | Table 1 | | | | | | |
| Net investment in capital assets | 2,893,556 | 1,327,817 | 353,521 | 116,856 | (162,823) | 4,528,927 | 3,794,400 |
| Restricted net position: | | E7 D4D 7E7 | | 4E 0E0 4.04 | 40.04.2.022 | C4 200 D0E | 22 004 240 |
| Nonexpendable Restricted for energy programs | 10,462,456 | 57,242,757 39,697 | 83,000 | 15,959,161 | (8,813,833) | 64,388,085 10,585,153 | 66,901,619 11,537,185 |
| Unrestricted (deficit) | 53,287,502 | (21,704,523) | 20,918 | (3,099,959) | (31,264,399) | (2,760,461) | (5,951,088) |
| | | | | | | 1-11-11-17 | ,-,, |
| Total Net Position | \$ 66,643,514 \$ | 36,905,748 \$ | 457,439 \$ | 12,976,058 | (40,241,055) | 76,741,704 | 76,282,116 |
| Restricted for energy programs Unrestricted (deficit) Total Net Position | cus | 310 | N PI | | | | |

(with summarized totals for the year ended June 30, 2019)

| | | Discretely | Presented Comp | onent Units | | | |
|--|-----------------------------|-------------------------|-------------------------------|-----------------------------|-----------------------|--------------------------------|--------------------------------|
| | Total Primary Government | CT Solar Lease 2 LLC | CEFIA Solar Services, Inc. | CT Solar Lease 3 LLC | Eliminations | 2020 Total Reporting Entity | 2019 Total Reporting Entity |
| Operating Revenues | | | | | | | |
| Utility remittances | 24,854,150 | \$ | \$ | \$ | \$ | \$ 24,854,150 | \$ 26,094,682 |
| Interest income - promissary notes | 5,929,332 | 323 | | | | 5,929,655 | 3,909,495 |
| Grant revenue | 76,402 | | | | | 76,402 | 200,779 |
| RGGI auction proceeds | 4,581,628 | | | | | 4,581,628 | 2,130,255 |
| Energy system sales | 4,373,424 | 748 784 | | E04 000 d | (367,029) | 4,006,395 | 2,795,336 |
| REC sales | 7,975,361 | 746,721 | 250 245 | 534,086 | (4.400.050) | 9,256,168 | 6,489,479 |
| Other income Total operating revenues | 1,609,430 49,399,727 | 3,293,950 4,040,994 | 258,245 258,245 | 390,667 924,7 5 3 | (1,109,050) | 4,443,242 53,147,640 | 4,012,334 45,632,360 |
| ratal operating revenues | 43,333,727 | 4,040,994 | 200,240 | 324,703 | (1,470,079) | 55,147,040 | 40,602,300 |
| Operating Expenses | | | | | | | |
| Cost of goods sold - energy systems | 4,371,059 | | | | (364,665) | 4,006,394 | 2,877,040 |
| Provision for loan losses | 4,962,343 | | | | | 4,962,343 | 2,908,974 |
| Grants and incentive programs | 17,313,711 | , | | | (969,887) | 16,343,824 | 14,671,750 |
| Program administration expenses | 12,333,764 | 3,599,905 | 321,005 | 551,135 | (345,053) | 16,460,756 | 17,505,206 |
| General and administrative expenses | 6,701,666 | 253,880 | 4,552 | 115,190 | (139,163) | 6,936,125 | 5,722,397 |
| Total operating expenses | 45,682,543 | 3,853,785 | 325,557 | 666,325 | (1,818,768) | 48,709,442 | 43,685,367 |
| Operating Income (Loss) | 3,717,184 | 187,209 | (67,312) | 258,428 | 342,689 | 4,438,198 | 1,946,993 |
| Nonoperating Revenue (Expenses) | | | | | | | |
| Interest income - short-term cash deposits | 336,463 | 4,454 | 133 | 478 | | 341,528 | 416,258 |
| Interest expense long-term debt | (2,327,387) | (1,027,865) | (39,990) | | | (3, 395, 242) | (1,983,502) |
| Interest income - component units | 66, 327 | | 49,469 | | (115,796) | - | |
| Interest expense - component units | | (115,796) | | | 115,796 | | (429) |
| Debt issuance costs | (18,800) | | | | | (18,800) | (1,738,746) |
| Payments to State of Connecticut | | 1510.510 | | 100.404 | | - | (14,000,000) |
| Distributions to member Distributions to former member | | (510,910) | | (86,494) | | (597,404) | (588,663) |
| Realized and unrealized loss on investments | (106,957) | (13,156) | | | | (120,113) | (1,000) (104,466) |
| Unrealized gain (loss) on interest rate swap | (100,307) | (641,133) | | | | (641,133) | (694,702) |
| Total nonoperating revenue (expenses) | (2,050,354) | (2,304,406) | 9,612 | (86,016) | | (4,431,164) | (18,695,250) |
| | | | | | | | |
| Change in Net Position before | 4.000.000 | | | | 2.0 | 7.004 | |
| Capital Contributions | 1,666,830 | (2,117,197) | (57,700) | 172,412 | 342,689 | 7, 0 34 | (16,748,257) |
| Capital Contributions | | | | 452,554 | | 452,554 | 1,695,722 |
| Change in Net Position | 1,666,830 | (2,117,197) | (57,700) | 624,966 | 342,689 | 459,588 | (15,052,535) |
| Net Position - Beginning of Year | 64,976,684 | 39,022,945 | 515,139 | 12,351,092 | (40,583,744) | 76,282,116 | 91,334,651 |
| Net Position - End of Year | 66,643,514 | \$ 36,905,748 | \$ 457,439 | \$12,976,058 | \$ (40,241,055) | \$ 76,741,704 | \$ 76,282,116 |
| NETPORIUM-EMUNITER | 110 | 3430,740 | 407,439 | ψ <u>12,976,008</u> | ψ <u>(40,241,000)</u> | 0 (0,741,704 | Ψ <u> 76,262.110</u> |

| | | Discretely I | Presented Compo | onent Units | t Units | | | | | |
|--|--------------------------------------|-------------------------|-------------------------------|-------------------------|------------------------|---|-------------------------------------|--|--|--|
| | Total Primary Government | CT Solar Lease 2 LLC | CEFIA Solar Services, Inc. | CT Solar Lease 3 LLC | Eliminating Entries | 2020 Total Reporting Entity | 2019 Total Reporting Entity | | | |
| Cash Flows from Operating Activities | | | | | | | | | | |
| | \$ 4,514,823 | \$ 5 | 5 \$ | ; | \$ (143,765) | \$ 4,371,058 | | | | |
| Sales of Renewable Energy Credits | 7,33 0,760 | 734, 721 | 2,883 | 439,446 | | 8,507,810 | 6,344,856 | | | |
| Utility company remittances Grants disbursed | 24,533,339 | | | | | 24,533,339 | 26,577,782 | | | |
| RGGI auction proceeds | 59,221 4,595,579 | | | | | 59,221 4,595,579 | (1,316, 000) 1,188,912 | | | |
| Other income | 1,556,052 | 2,112,929 | 251,703 | 379,606 | (1,305,214) | 2,995,076 | 2,282,175 | | | |
| Lease payments received | - | 1,307,661 | | | | 1,307,661 | 1,455,778 | | | |
| Interest income on promissory notes | 5,929,331 | 323 | | | | 5,929,654 | 3,909,495 | | | |
| Program administrative expenses Grants, incentives and credit enhancements | (11,858,752) | (240, 974) | (309,862) | (78,550) | 4.400.054 | (12,488,138) | (14,967,677) | | | |
| Purchases of energy equipment | (17,442,801) (4,371, 0 59) | | | | 1,166,051 | (16,276,750) (4,371,059) | (18,640,964) (4,027,221) | | | |
| General and administrative expenditures | (2,749,895) | (423, 623) | (4,550) | (54,698) | 139,163 | (3,093,603) | (3,150,977) | | | |
| Net cash provided by (used in) operating activities | 12,096,598 | 3,491,037 | (59,826) | 685,804 | (143,765) | 16,069,848 | 2,451,495 | | | |
| Cash Flows from Noncapital Financing Activities | | | | | | | | | | |
| Payments to State of Connecticut | | | | | | - | (14,000,000) | | | |
| Funds received (disbursed) from escrow and custodial accounts | (217,771) | (180, 493) | 500.014 | (61,744) | | (460,008) | (1,3 0 6,548) | | | |
| Advances (repayments) to/from CGB component units Advances repaid (disbursed) to third-party capital providers | (199,322) 501,616 | (301,083) | 500,211 | 194 | | 501,616 | (1,542,548) | | | |
| Net cash provided by (used in) noncapital financing activities | 84,523 | (481, 576) | 500,211 | (61,550) | - | 41,608 | (16,849,096) | | | |
| ·· , , , , , , | | 1,11,11,12 | | 1=11==2 | | | | | | |
| Cash Flows from Capital and Related Financing Activities | | | | | | | | | | |
| Purchase of capital assets | (3,080,891) | 46.000 | (358,282) | (143,765) | 143,765 | (3,43,9,173) | (7, 404, 070) | | | |
| Disposals of capital assets Proceeds from short-term debt | 374 11,000,000 | 16,038 | | | | 16,412 11,000,000 | 3,112 | | | |
| Repayment of short-term debt | (4,900,000) | | | | | (4,900,000) | - | | | |
| Proceeds from long-term debt | - Y | | | | | | 39,528,757 | | | |
| Repayment of long-term debt | (5,532,263) | (2,129,679) | (94,791) | | | (7,756,733) | (2, 281, 727) | | | |
| Debt issuance costs Interest expense | (18,800) | (1,127,858) | 14,224 | | | (18,8 00) (3,467,58 0) | (1,738,746) (1,823,15 0) | | | |
| Capital contributions from Firstar Development, LLC | (2,353,946) | (1,127,000) | 14,224 | 452,554 | | 452,554 | 1,695,722 | | | |
| Return of capital to Connecticut Innovations | | | | 132,331 | | .52,55 | (1,000) | | | |
| Return of capital to Firstar Development, LLC | | (510,910) | \rightarrow | (84,237) | | (595,147) | (580,208) | | | |
| Net cash provided by (used in) capital and related financing activities | (4,885,526) | (3,752,409) | (438,849) | 224,552 | 143,765 | (8,708,467) | 27,398,690 | | | |
| Cash Flows from Investing Activities | | | | | | | | | | |
| Gains and losses on investments | | (13,156) | | | | (13,156) | _ | | | |
| Loan losses | (31,412) | , , , | | | | (31,412) | 78,925 | | | |
| Return of principal on WC & program loans | 6,877,267 | | | | | 6,877,267 | (78,791) | | | |
| Interest on short-term investments, cash, solar lease notes and loans, net | (257,056) | 4, 454 | 133 | 478 | | (251,991) | (664,515) | | | |
| Purchase of SBEA loan portfolios CPACE program loan disbursements | (1,011,807) (5,525,600) | | | | | (1,011,807) (5,525,600) | (3,048,996) (4,486,084) | | | |
| Grid Tied program loan disbursements | (0,020,000) | | | av | | (0,020,000) | (110,493) | | | |
| Commercial Solar Loan program disbursements | (4,688,408) | | | | | (4,688,408) | (987,960) | | | |
| Residential Solar Loan program disbursements | (15,307,292) | | | | | (15,307,292) | (12,286,451) | | | |
| Net cash provided by (used in) investing activities | (19,944,308) | (8, 702) | 133 | 478 | | (19,952,399) | (21,584,365) | | | |
| Net Increase (Decrease) in Cash and Cash Equivalents | (12,648,713) | (751, 650) | 1,669 | 849,284 | - | (12,549,410) | (8,583,276) | | | |
| Cash and Cash Equivalents - Beginning of Year | 28,978,884 | 6,112,008 | 204,858 | 319,261 | | 35,615,011 | 44,198,287 | | | |
| Cash and Cash Equivalents - End of Year | \$ 16,330,171 | \$ 5,360,358 \$ | 206,527_\$ | 1,168,545 | \$ | \$23,065,601_5 | 35,615,011 | | | |
| | 7 | | | | | | | | | |
| A 1 | | | | | | | | | | |
| Reconciliation of Operating Income (Loss) to Net Cash | | | | | | | | | | |
| Provided by (Used in) Operating Activities: Operating income (loss) | \$ 3,717,184 | ¢ 107.000.5 | . (67940) ¢ | 2 050400 | ¢ 240.000 | ¢ 4450400 5 | 1 046 009 | | | |
| Adjustments to reconcile operating income (loss) | Ψ 3,/1/,104 | \$ 187,209 \$ | (67,312) \$ | 258,428 | \$ 342,689 | \$ 4,438,198 \$ | 1,946,993 | | | |
| to net cash provided by (used in) operating activities: | | | | | | | | | | |
| Depreciation | 512,725 | 2,478,364 | 11,143 | 427,342 | | 3,429,574 | 3,218,624 | | | |
| Accretion | | 138,850 | • | 47,976 | | 186,826 | 187,475 | | | |
| Deferred lease revenue | - | (50, 967) | | (27,284) | | (78,251) | (1,574,396) | | | |
| Pension expense adjustment | 2,158,952 | | | | | 2,158,952 | 2,225,531 | | | |
| OPEB expense adjustment | 1,467,899 | | | | | 1,467,899 | 662,072 | | | |
| Changes in operating assets and liabilities: | | _ | | | | | _ | | | |
| (Increase) decrease in operating assets | 4,187,744 | 561,062 | (3,657) | (16,712) | (680, 253) | 4,048,184 | (3,071,257) | | | |
| (Decrease) increase in operating liabilities | 52,094 | 176,519 | | (3,946) | 193,799 | 418,466 | (1,143,547) | | | |
| Net Cash Provided by (Used in) Operating Activities | \$ 12,096,598 | \$ 3,491,037 \$ | (59,826) \$ | 685,804 | \$ (143,765) | \$ 16,069,848 | 2,451,495 | | | |
| | | | | | | | | | | |

Nature of Operations

The Connecticut Green Bank (the Green Bank) was established in July 2011 under Title 16, Sec. 16-245n of the General Statutes of the State of Connecticut as the successor entity of the Connecticut Clean Energy Fund. The Green Bank, a component unit of the State of Connecticut, was created to promote energy efficiency and investment in renewable energy sources in accordance with a comprehensive plan developed by it to foster the growth, development and commercialization of renewable energy sources and related enterprises and stimulate demand for renewable energy and deployment of renewable energy sources which serve end-use customers in the State. The Green Bank constitutes the successor agency to Connecticut Innovations Incorporated (CI), a quasi-public agency of the State of Connecticut, for the purposes of administering the Clean Energy Fund in accordance with section 4-38d of the Connecticut General Statutes and therefore the net position of such fund was transferred to the newly created Green Bank as of July 1, 2011.

On June 6, 2014, Public Act 14-94 of the State of Connecticut changed the name of the Clean Energy Finance and Investment Authority to the Connecticut Green Bank.

Prior Period Summarized Financial Information

The basic financial statements include certain prior year summarized comparative information in total but not at the level of detail required for a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the Green Bank's financial statements for the year ended June 30, 2019, from which the summarized information was derived.

Principal Revenue Sources

The Public Utility Regulatory Authority (PURA) assesses a charge per kilowatt-hour to each end-use customer of electric services provided by utility companies (excluding municipally owned entities) in the state, which is paid to the Green Bank and is the principal source of the Green Bank's revenue. The Green Bank may deploy the funds for loans, direct or equity investments, contracts, grants or other actions that support energy efficiency projects and research, development, manufacture, commercialization, deployment and installation of renewable energy technologies.

The Green Bank also receives a portion, currently 23%, of proceeds the State of Connecticut receives from quarterly Regional Greenhouse Gas Initiative (RGGI) auctions. These proceeds finance renewable energy projects through the Green Bank's CPACE program. The Green Bank also earns both interest income and revenue from the sale of Solar Renewable Energy Credits (SREC's) generated by facilities it has financed.

Reporting Entity

The Green Bank, as the primary government, follows the reporting requirements of Governmental Accounting Standards Board (GASB) Statement No. 61 (The Financial Reporting Entity Omnibus - an Amendment of GASB Statements No. 14 and No. 34) (the Statement) regarding presentation of component units. The Statement modifies certain requirements for including component units in the reporting entity, either by blending (recording their amounts as part of the primary government), or discretely presenting them (showing their amounts separately in the reporting entity's financial statements). To qualify as a blended component unit, the unit must meet one of the following criteria: 1) have substantively the same governing body as that of the primary government, and either (A) a financial benefit or burden relationship exists between the unit and the primary government, or (B) management of the primary government (below the level of the governing body) has operational responsibility of the unit, 2) the unit provides services or benefits exclusively or almost exclusively to the primary government; or 3) the unit's total debt outstanding, including leases, is expected to be repaid by resources of the primary government. A unit which fails to meet the substantively the same governing requirement may still be included as a discretely presented component unit, if the primary government has appointed the voting majority of the component unit's governance or met other criteria specified in the Statement such as whether or not it would be misleading were the entity to be excluded.

The Green Bank, as of June 30, 2020, has established nine legally separate for-profit entities whose collective purpose is to administer the Green Bank's clean energy programs. The Green Bank believes to exclude any of the entities from these financial statements would be misleading. Each entity is listed below, along with whether it is included as a blended component unit (blended) or qualifies as a discretely presented component unit (discrete) within these financial statements based on the criteria previously described.

CEFIA Holdings LLC (blended)

A Connecticut limited liability company (LLC), wholly owned by the Green Bank, established to acquire and develop a portfolio of commercial and residential solar facilities and, through its CT Solar Lease 2 program, to enable investment in solar photovoltaic equipment for the benefit of Connecticut homeowners, businesses, not-for-profits and municipalities (the End Users). CEFIA Holdings LLC acquires the initial title to the solar assets and contracts with independent solar installers to complete the installation of the solar assets and arrange for the leasing of the solar assets (or sale of energy under power purchase agreements) to the End Users. CEFIA Holdings LLC is also responsible for procuring insurance for the solar assets, operation and maintenance services as well as warranty management services for the ultimate owner of the solar assets, CT Solar Lease 2 LLC or CT Solar Lease 3 LLC, to which CEFIA Holdings LLC sells the residential and commercial projects before the projects are placed in service. After acquiring the residential and commercial projects, CT Solar Lease 2 LLC or CT Solar Lease 3 LLC administers the portfolio of projects with the assistance of Renew Financial Corporation. The Green Bank's Board of Directors acts as the governing authority of CEFIA Holdings LLC. The Green Bank appoints its employees to manage the operations of CEFIA Holdings The Green Bank is also financially responsible (benefit/burden) for CEFIA Holdings LLC's LLC. activities.

CT Solar Loan LLC (blended)

A limited liability company, wholly owned by CEFIA Holdings LLC, CT Solar Loan I LLC was established to make loans to residential property owners for the purpose of purchasing and installing solar photovoltaic equipment. The Green Bank's Board of Directors acts as the governing authority of CT Solar Loan I LLC. The Green Bank appoints its employees to manage the operations of CT Solar Loan I LLC. The Green Bank is also financially responsible (benefit/burden) for CT Solar Loan I LLC's activities.

CEFIA Solar Services, Inc. (discrete)

A Connecticut corporation, 100% owned by CEFIA Holdings LLC, established to share in the ownership risks and benefits derived from the leasing of solar photovoltaic and the sale of energy under power purchase agreements as managing member of CT Solar Lease 2 LLC and CT Solar Lease 3 LLC. CEFIA Solar Services, Inc. (Solar Services) has a one percent ownership interest in CT Solar Lease 2 LLC and CT Solar Lease 3 LLC and is its managing member. Solar Services is responsible for performing all management and operational functions pursuant to the Operating Agreement of CT Solar Lease 2 LLC and of CT Solar Lease 3 LLC. The Green Bank through CEFIA Holdings LLC directly appoints the Board of Directors of Solar Services. The Board of Directors is comprised exclusively of Green Bank employees. The primary government's intent for owning a controlling interest in Solar Services is to enhance its ability to offer financing options to commercial entities and residents of Connecticut wishing to install renewable energy equipment. The Green Bank believes that to exclude Solar Services from these financial statements would be misleading.

CT Solar Lease 2 LLC (discrete)

A Connecticut limited liability company, CT Solar Lease 2 LLC acquires title to the residential and commercial solar projects from the developer, CEFIA Holdings LLC, using capital from its members along with non-recourse funding from participating banks. Repayment to participating banks is predicated upon the property owners' payment to CT Solar Lease 2 LLC of their obligations under leases and power purchase agreements, as well as revenue earned from production-based incentives. CT Solar Lease 2 LLC is owned ninety-nine percent (99%) by Firstar Development, LLC, a Delaware limited liability company, as the Investor Member and one percent (1%) by CEFIA Solar Services, Inc., as the Managing Member. The primary government's intent to provide management services through Solar Services is to directly enhance its ability to provide financing options to commercial entities and residents of Connecticut wishing to install renewable energy equipment. Although the Green Bank has a minority membership interest in CT Solar Lease 2 LLC, the Green Bank believes that to exclude it from these financial statements would be misleading.

As of June 30, 2017, CT Solar Lease 2 LLC has completed its acquisition of residential and commercial solar projects from the developer. All projects have been placed in service and are generating revenue. CT Solar Lease 2 LLC has also received all capital contributions required under its Operating Agreement from its members.

CT Solar Lease 3 LLC (discrete)

A Connecticut limited liability company, CT Solar Lease 3 LLC acquires title to commercial solar projects from the developer, CEFIA Holdings LLC, using capital from its members. CT Solar Lease 3 LLC's primary sources of revenue will be from the sale of electricity generated by its solar PV facilities to property owners through power purchase agreements and the sale of RECs generated from facility electrical production to third parties. CT Solar Lease 3 LLC is owned ninety-nine percent (99%) by Firstar Development, LLC, a Delaware limited liability company, as the Investor Member and one percent (1%) by CEFIA Solar Services Inc., as the Managing Member. The primary government's intent to provide management services through Solar Services is to directly enhance its ability to provide financing options to commercial entities and residents of Connecticut wishing to install renewable energy equipment. Although the Green Bank has a minority membership interest in CT Solar Lease 3 LLC, the Green Bank believes that to exclude it from these financial statements would be misleading.

As of December 17, 2019, CT Solar Lease 3 LLC has completed its acquisition of commercial solar projects from the developer. All projects have been placed in service and are generating revenue. CT Solar Lease 3 LLC has also received all capital contributions required under its Operating Agreement from its members.

CGB Meriden Hydro LLC (blended)

On August 31, 2017, the Green Bank, through its wholly owned component unit, CGB Meriden Hydro LLC (CGB Meriden), purchased a 195 kW hydroelectric facility located in Meriden, Connecticut, from the facility's developer, Hanover Pond Hydro LLC (Hanover Pond), pursuant to a sale and leaseback agreement dated January 1, 2017 for \$3,911,706. The Green Bank utilized the proceeds of the Clean Energy Renewable Bond (CREB), \$2,957,971 issued in fiscal year 2017, to finance a portion of the total purchase price.

Hanover Pond remits to CGB Meriden a monthly lease payment equal to the monthly payment made by the City of Meriden to Hanover Pond for the purchase of electricity generated by the hydroelectric facility under a power purchase agreement dated August 14, 2014, as amended. This lease commenced on the date commercial operations began and terminates on the 30th anniversary of said date. Commercial operations began on March 7, 2017. In addition to revenues earned through its lease with Hanover Pond, CGB Meriden also receives revenues from the sale of renewable energy credits generated by the facility and sold to the local utility company under a sale and purchase contract dated July 31, 2014 which was assigned to CGB Meriden on September 18, 2017.

CGB KFC LLC (blended)

A Connecticut corporation, single member LLC 100% owned by Connecticut Green Bank, established on November 7, 2017 to hold the loan liability resulting from draws made on a \$3,000,000 loan facility provided by the Kresge Foundation. On December 14, 2018 CGB KCF LLC received a disbursement of \$1,000,000 which was held by Connecticut Green Bank in a restricted cash account until January 23, 2020 when it was transferred to Inclusive Prosperity Capital, Inc. (IPC) with the agreement of the Kresge Foundation. IPC has assumed full responsibility for the loan and reporting to Kresge as of January 21, 2020. IPC is a not-for-profit strategic partner of the Connecticut Green Bank focused on increasing access to capital to low-to-moderate income communities, nonprofits, faith-based organizations, housing authorities, schools, and smaller businesses. As of the end of Fiscal Year 2020, CGB has no interest in this loan.

SHREC ABS 1 (blended)

A Delaware corporation, single member LLC 100% owned by Connecticut Green Bank, established on February 19, 2019 to be the issuer of \$38,600,000 of SHREC Collateralized Notes, Series 2019-1 (SHREC notes), \$36,800,000 Class A notes and \$1,800,000 Class B notes, with Bank of New York Mellon acting as trustee. The SHREC notes were sold to a single investor on April 2, 2019. The proceeds were used to retire Green Bank short-term debt, as well as to support Green Bank investment and operational activities. Quarterly payments of scheduled principal and interest for a period of 14 years are funded by billings to two Connecticut utilities for SHREC revenues generated by approximately 14,000 solar PV systems on residential rooftops. Advances between the Green Bank and SHREC ABS 1 LLC were involved in the establishment of the note, retirement of Green Bank short-term debt, as well as to pay certain organizational costs. Advances were eliminated in preparing the combining and reporting entity financial statements.

SHREC Warehouse 1 LLC (blended)

A Connecticut corporation, single member LLC 100% owned by Connecticut Green Bank, established on April 23, 2019 to collect payments due from Connecticut Light & Power (CL&P) and United Illuminating (UI) pursuant to the Master Purchase Agreement dated July 30, 2018 as amended for the purchase and sale of Solar Home Renewable Energy Credits (SHRECs). SHREC Warehouse 1 LLC acts as the sole borrower under a revolving loan facility provided by Liberty Bank and Webster Bank. Payments due from CL&P and UI are pledged as security for the loans. Loans drawn by SHREC Warehouse 1 LLC are advanced to CGB to be used for investment and operational activities. Advances were eliminated in preparing the combining and reporting entity financial statements.

CT Solar Lease 1 LLC (blended)

A Connecticut corporation, single member LLC 100% owned by Connecticut Green Bank, established on April 23, 2019 to hold collateral that supports a \$5,000,000 guaranty on a line of credit with Amalgamated Bank. On May 21, 2019, the Green Bank assigned its solar lease promissory note portfolio to CT Solar Lease 1 LLC. Solar Lease 1 LLC receives note payments and maintains a loan loss reserve for the portfolio. Advances between the Green Bank and Solar Lease 1 LLC were involved in the transfer of assets and loan loss reserves. Advances were eliminated in preparing the combining and reporting entity financial statements.

Advances between the primary government (the Green Bank) and its component units, or between the component units themselves, involved establishment of funds to provide for loan loss reserves as well as pay certain organizational costs. Advances were eliminated in preparing the combining and reporting entity financial statements.

Condensed combining information for the primary government (The Green Bank) and its seven blended component units (CGB Meriden Hydro LLC, CG KCF LLC, SHREC ABS 1 LLC, SHREC Warehouse 1 LLC, CT Solar Lease I LLC, CT Solar Loan I LLC and CEFIA Holdings LLC) is presented as of June 30, 2020 as follows:

Condensed, Combining Information - Statement of Net Position

| | | | | SHREC | | | | | |
|---|------------------------------|---------------|--------------------|--------------------|-------------|------------|---------------------------|------------------------|------------------------------|
| | CGB | CGB Meriden | SHREC ABS 1 LLC | Warehouse 1 LLC | CT Solar | CT Solar | CEFIA | Eliminating Entries | Total Primary |
| | | Hydro LLC | | | Lease ILLC | Loan I LLC | Holdings LLC | Enmes | Government |
| Assets | | | | | | | | | |
| Current Assets | | | | | | | | | |
| Cash and cash equivalents | \$ 3,400,382 ³ \$ | 12,522 | \$ 267,739 | \$ 350,045 | \$: | 448,774 | \$ 993,868 | \$ | 5,473,330 |
| Accounts receivable | 2,700,337 | | | | | | 426,756 | | 3,127,093 |
| Utility remittance receivable Other receivables | 2,214,775 231,331 | | | | 85,252 | 7,727 | 1,125,686 | | 2,214,775 1,449,996 |
| Due from component units | 51,414,597 | | 35,744,478 | 5,296,785 | 00,202 | 1,12 | 6,659,126 | (59,015,015) | 40,099,971 |
| Prepaid expenses and other assets | 1,210,807 | 102,510 | 41,667 | | | 10,570 | 115,690 | | 1,481,244 |
| Current maturities of prepaid warranty management Current portion of solar lease notes | | | | | 967,530 | | | | 967,530 |
| Current portion of SBEA promissory notes | | | | | ******* | | 1,549,492 | | 1,549,492 |
| Current portion of program loans | 3,973,024 | 445.000 | 00.050.004 | F 0 40 MO | 4.050.700 | 163,527 | 260,064 | FO DAE DAES | 4,396,615 |
| Total current assets | 65,145,253 | 115,032 | 36,053,884 | 5,646,830 | 1,052,782 | 630,598 | 11,130,002 | (59,015,015) | 60,760,046 |
| Noncurrent Assets | | | | | | | | | 0.31 |
| Portfolio investments Bonds receivable | 1 3,031,134 | | | | | | | | 1 3,031,134 |
| Prepaid warranty management, less current portion | 3,031,134 | | | | | | | | 3,001,104 |
| Solar lease notes, less current portion | | | | | 3,979,704 | | | | 3,979,704 |
| SBEA promissory notes, less current portion Program loans, less current portion | 75,465,156 | | | | | 1,729,352 | 968,608 4,090,698 | | 968,608 81,285,206 |
| Renewable energy credits | 407,360 | | | | | 1,120,002 | 4,000,000 | | 407,360 |
| Investment in component units | 100,100 | | | | | | 100 | (100, 100) | 100 |
| Capital assets, net of depreciation and amortization | 10,050,861 | 4,117,736 | | | | | | | 14,168,597 |
| Restricted assets: | | | | | | | | | |
| Cash and cash equivalents | 7,374,703 | 4 447 728 | 1,190,835 | 1,989,508 | 3,979,704 | 2,031,147 | 5,059,406 | (100, 100) | 10,856,841 |
| Total noncurrent assets | 96,429,315 | 4,117,736 | 1,190,000 | 1,908,000 | 3,919,104 | 2,031,147 | 5,059,400 | (100,100) | 114,087,001 |
| Total Assets | 161,574,568 | 4,232,768 | 37,244,719 | 7,636,338 | 5,032,486 | 2,661,745 | 16,190,088 | (59,115,115) | 175,457,597 |
| Deferred Outlows of Resources | | | | - 40 | | | | | |
| Defened amount for pensions | 6,265,821 | | | | | | | | 6,265,821 |
| Deferred amount for OPEB Deferred amount for asset retirement obligations | 5,189,388 | | | | | | | | 5,189,388 |
| Defended amount for asset retirement obligations | - | \rightarrow | | | | | | | |
| Total Deferred Outlows of Resources | 11,455,209 | | 467 | | - | - | - | - | 11,455,209 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | SHREC | | | | | |
| | | CGB Meriden | SHREC ABS 1 | Warehouse 1 | CTSolar | CTSolar | CEFIA | Eliminating | Total Primary |
| | CGB | Hydro LLC | LLC | LLC | Lease I LLC | Loan I LLC | HoldingsLLC | Entries | Government |
| Liabilities and Net Position | | | | | | | | | |
| | | | | | | | | | |
| Liabilities | 2 2520 | | | | | | | | |
| Current maturities of long-term debt Current maturities of warranty management | \$ 645,916 \$ | 1 | \$ 2,130,000 | 3 | \$ | \$ | \$ | \$ | \$ 2,775,916 |
| Accounts payable and accrued expenses | 7,205,709 | | 78,267 | 5,477 | | 21,206 | 38,426 | | 7,349,085 |
| Due to component units Line of credit | 41,3 43,837 100,000 | 5,181,401 | | 6,000,000 | 5,349,768 | 2,432,500 | 5,010,084 | (59,015,015) | 302,575 6,100,000 |
| Custodial liability | 394,386 | | | 0,000,000 | | | 1,282,288 | | 1,676,674 |
| Uneamed revenue | | | | | | | | | |
| Total current liabilities | 49,689,848 | 5,181,401 | 2,208,267 | 6,005,477 | 5,349,768 | 2,453,706 | 6,330,798 | (59,015,015) | 18,204,250 |
| Asset retirement obligation | | | | | | | | | |
| Long-term debt, less current maturities Warranty management, less current maturities | 10,629,127 | | 34,059,938 | | | | | | 44,689,065 |
| Fair value of interest rate swap | | | | | | | | | |
| Pension liability | 25, 17 4, 453 | | | | | | | | 25,174,453 |
| OPEB liability Total noncurrent liabilities | 28, 484,971 64, 288,551 | | 34,059,938 | | | | | | 28, 484, 971 98, 348, 489 |
| | | | | | | | | | |
| Total Liabilities | 113,978,399 | 5,181,401 | 36,268,205 | 6,005,477 | 5,349,768 | 2,453,706 | 6,330,798 | (59,015,015) | 116,552,739 |
| Deferred Inflows of Resources | | | | | | | | | |
| Deferred amount for pensions | 1,380,337 | | | | | | | | 1,380,337 |
| Deferred amount for OPEB Total deferred inflows of resources | 2,336,216 3,710,553 | | | | | | | | 2,336,216 |
| . Tal science mione or resoluce | 5,1 10,000 | | | | | | | | 0,1 10,000 |
| Net Position | 4 105 100 | 4 455 45- | | | | | | | D FF- |
| Net investment in capital assets Restricted net position: | 1,465,109 | 1,428,447 | | | | | | | 2,893,556 |
| Nonex pendable | | | | | | | | | |
| Restricted for energy programs | 6,980,318 | | 1,190,835 | 1,989,508 | | 301,795 | | | 10,462,456 |
| | | AD 0000 0000 | | | | | | | |
| Unrestricted (deficit) | 46,889,398 | (2,377,080) | (214,321) | Ģ58,647) | (317,282) | (93,756) | 9,859,290 | (100,100) | 53,287,502 |
| Total Net Position | | | | | | | 9,859,290 \$ 9,859,290 | | |
| | 46,889,398 | | | | | | | | |

Condensed, Combining Information - Statement of Revenues, Expenses and Changes in Net Position

| | _ | CGB | CGB Meriden Hydro LLC | SHREC ABS 1 | SHREC Warehouse 1 LLC | CT Solar Lease 1 LLC | CT Solar Loan I LLC | CEFIA HoldingsLLC | Eliminating Entries | Total Primary Government |
|--|-----|-------------|--------------------------|-------------|-----------------------------|----------------------------|------------------------|----------------------|------------------------|-----------------------------|
| Operating Revenues | | | | | | | | | | |
| Utility remittances | \$ | 24,854,150 | \$ | \$ | 4 | \$ | \$ | \$ 9 | ; | \$ 24,854,150 |
| Interest income - promissory notes | | 5,473,427 | | | | 3 15,001 | 140,904 | | | 5,929,332 |
| Grant revenue | | 76,402 | | | | | | | | 76,402 |
| RGGI auction proceeds | | 4,581,628 | | | | | | | | 4,581,628 |
| Energy system sales | | | | | | | | 4,373,424 | | 4,373,424 |
| REC sales | | 905,001 | | 5,179,976 | 1,890,384 | | | | | 7,975,361 |
| Other income | _ | 1,062,661 | | | | | 924 | 545,845 | | 1,609,430 |
| Total operating revenues | _ | 36,953,269 | | 5, 179,976 | 1,890,384 | 315,001 | 141,828 | 4,919,269 | | 49,399,727 |
| Operating Expenses | | | | | | - 4 | | | | |
| Cost of goods sold-energy systems | | | | | | | | 4,371,059 | | 4,371,059 |
| Provision for loan losses | | 3,999,439 | | | | 318,802 | 48,914 | 595, 188 | | 4,962,343 |
| Grants and incentive programs | | 17,313,711 | | | | | | | | 17,313,711 |
| Program administration expenses | | 11,273,193 | 47 1,732 | 80,000 | 132,139 | 320,360 | 40, 137 | 36,203 | | 12,333,764 |
| General and administrative expenses | | 6,678,242 | 3,976 | 3,626 | 1,514 | | 5,034 | 9,274 | | 6,701,666 |
| Total operating expenses | _ | 39,264,585 | 475,708 | 63,626 | 133,653 | 639,162 | 94,085 | 5,011,724 | <u> </u> | 45,682,543 |
| Operating Income (Loss) | _ | (2,311,316) | (475,708) | 5,116,350 | 1,756,731 | (324, 161) | 47,743 | (92,455) | <u> </u> | 3,717,184 |
| Nonoperating Revenue (Ex penses) | | | | | | | | | | |
| Interest income - short-term cash deposits | | 137,394 | | 17,185 | 92 | | 314 | 181,478 | | 336,463 |
| Interest expense long-term debt | | (168,682) | | (1,945,835) | (125,962) | | (86,908) | | | (2,327,387) |
| Interest income - component units | | 66,327 | | | | | | | | 66,327 |
| Interest expense - component units | | | | | | | | - TO 6 | | |
| Debt issuance costs | | (18,800) | | | | | | | | (18,800) |
| Payments to State of Connecticut Distributions to member | | | | | | | | - | | |
| Distributions to former member | | | | | | | | | | |
| Realized and unrealized loss on investments | | (106,957) | | | | | | | | (106,957) |
| Unrealized gain (loss) on interest rate swap | | (100,001) | | | | | | | | (100,401) |
| Total nonoperating revenue (expenses) | _ | (90,718) | | (1,928,650) | (125,870) | $\overline{}$ | (86,594) | 181,478 | | (2,050,354) |
| | | | | | -67 | | | | | |
| Change in Net Position before | | (2,402,034) | (475,708) | 3,187,700 | 1,630,861 | (324, 161) | (38,851) | 89,023 | | 1,666,830 |
| Capital Contributions | | (2,402,034) | (40,100) | 5,107,700 | 1,050,601 | (324, 101) | (30,601) | 66,025 | | 1,000,000 |
| Capital Contributions | _ | | | -01 | | | | | | |
| Change in Net Position | | (2,402,034) | (475,708) | 3,187,700 | 1,630,861 | (324, 161) | (38,851) | 89,023 | - | 1,666,830 |
| Net Position - Beginning of Year | - | 57,736,859 | (472,925) | (2,211,186) | | 6,879 | 246,890 | 9,770,267 | (100,100) | 64,976,684 |
| Net Position - End of Year | \$_ | 55,334,825 | \$ (948,633) | \$ 976,514 | 1,630,861 | \$ (3.17,282) | \$ 208,039 | \$ 9,859,290 \$ | (100,100) | 66,643,514 |
| Net Position - End of Year | 15 | 36 | | | | | | | | |

Condensed, Combining Information - Statement of Cash Flows

| | CGB | CGB Meriden Hydro LLC | SHREC ABS 1 | SHREC Warehouse 1 LLC | CTS olar Lease 1 LLC | CTS olar Loan I LLC | CEFIA Holdings LLC | Eliminating Entries | Total Primary Government |
|---|---------------------------|--------------------------|--------------------------|-----------------------------|-------------------------|------------------------|--------------------------|------------------------|-----------------------------|
| Cash Flows from Operating Activities | | | | | | | | | |
| Sales of energy systems Sales of Renewable Energy Credits | \$ 260,400 | \$ | \$ 5,179,976 | 1,890,384 | 3 | | \$ 4,514,823 | \$ | \$ 4,514,823 7,330,760 |
| Sales of Renewable Energy Credits Utility company remittances | 24,533,339 | | 5,179,976 | 1,890,384 | | | | | 24,533,339 |
| Grants disbursed | 59,221 | | | | | | | | 59,221 |
| RGGI auction proceeds | 4,595,579 | | | | | 20.0 | 450 405 | | 4,595,579 |
| Other income Lease payments received | 1,395,643 | | | | | 924 | 159,485 | | 1,556,052 |
| Interest income on promissory notes | 5,473,427 | | | | 315,000 | 140,904 | | | 5,929,331 |
| Program administrative expenses | (11,053,546) | (337,457) | (60,000) | (128,806) | (228,922) | (20,552) | (29, 469) | | (11,858,752) |
| Grants, incentives and credit enhancements Purchases of energy equipment | (17,442,801) | | | | | | (4,371,059) | | (17,442,801) (4,371,059) |
| General and administrative expenditures | (2,723,110) | (3,976) | (6,992) | (1,514) | | (5,032) | (9,271) | | (2,749,895) |
| Net cash provided by (used in) operating activities | 5,098,152 | (341,433) | 5,112,984 | 1,760,064 | 86,078 | 116,244 | 264,509 | - | 12,096,598 |
| Cash Flows from Noncapital Financing Activities Psyments to State of Connecticut | | | | | | | | | |
| Funds received (disbursed) from escrow and custodial accounts | (183,384) | | | | | | (34,387) | | (217,771) |
| Advances (repsyments) to/from CGB component units Advances repaid (disbursed) to third-party capital providers | 9,013,694 (42,019) | 321,220 | (3,400,000) | (5,296,785) | (1,025,008) | 1,215,000 | (1,027,443) 543,635 | | (199,322) 501,616 |
| Net cash provided by (used in) noncapital financing activities | 8,788,291 | 321,220 | (3,400,000) | (5,296,785) | (1,025,008) | 1,215,000 | (518,195) | | 84,523 |
| | | | | | | | | | |
| Cash Flows from Capital and Related Financing Activities Purchase of capital assets | \$,080,891) | | | | | | | | (3,080,891) |
| Disposals of capital assets | 374 | | | | | | | | (5,000,091) |
| Proceeds from short-term debt | 5,000,000 | | | 6,000,000 | | | | | 11,000,000 |
| Repsyment of short-term debt Proceeds from long-term debt | (4,900,000) | | | | | | | | (4,900,000) |
| Repayment of long-term debt | (1,625,017) | | (2,243,000) | | | (1,664,246) | | | (5,532,263) |
| Debt issuance costs | (18,800) | | , | | | | | | (18,800) |
| Interest expense Capital contributions from Firstar Development, LLC | (176,726) | | (1,945, 495) | (123,818) | (20,998) | (86,909) | | | (2,353,946) |
| Return of capital to Connecticut Innovations | | | | | | | | | - |
| Return of capital to Firstar Development, LLC | | | | | | | | | |
| Net cash provided by (used in) capital and related financing activities | (4,801,060) | | (4,188,495) | 5,876,182 | (20,998) | (1,751,155) | | | (4,885,526) |
| Cash Flows from Investing Activities Gains and losses on investments Loan losses | (53,265) | | | | | 0 | 21,853 | | (31,412) |
| Return of principal on WC & program loans | 3,653,009 | | | | 959,928 | 424,864 | 1,839,466 | | 6,877,267 |
| Interest on short-term investments, cash, solar lease notes and loans, net | (362,335) | | 17,185 | 92 | | 1,328 | 86,674 | | (257,056) |
| Purchase of SBEA loan portfolios | Æ EDE eoos | | | | | | (1,011,807) | | (1,011,807) |
| CPACE program loan disbursements Grid Tied program loan disbursements | (5,525,600) | | | | | | | | (5,525,600) |
| Commercial Solar Loan program disbursements | | | | | | | (4,688,408) | | (4,688,408) |
| Residential Solar Loan program disbursements Net cash provided by (used in) investing activities | (15,307,292) | | 17,185 | 92 | 959,928 | 426,192 | (3,752,222) | | (15,307,292) |
| Net cash provided by (used in) investing activities | (11,585,465) | | 11,100 | - 82 | 959,920 | 420,182 | (5,1 52,222) | | (10,044,300) |
| Net Increase (Decrease) in Cash and Cash Equivalents Cash and Cash Equivalents - Beginning of Year | (8,510,100) 19,285,185 | (20,213) 32,735 | (2,458,326) 3,916,900 | 2,339,553 | | 6,281 7.44,288 | (4,005,908) 4,999,776 | - | (12,648,713) 28,978,884 |
| Cash and Cash Equivariants - Dogiming Critical | 10,200,100 | 02,000 | 0,010,000 | | | 1 44,200 | 4,000,110 | | 20,010,004 |
| Cash and Cash Equivalents - End of Year | \$ 10,775,085 | 12,522 | 3 1,458,574 | \$ 2,339,553 | \$ | 750,569 | \$ 993,868 | ş <u> </u> | \$ 16,330,171 |
| Cash and Cash Equivalents - End of Year | GU! | 5 | | | | | | | |

Measurement Focus, Basis of Accounting and Financial Statement Presentation

All entities are enterprise funds. Enterprise funds are used to account for governmental activities that are similar to those found in the private sector in which the determination of net income is necessary or useful to sound financial administration.

Basis of Presentation

These financial statements are reported using the economic resources measurement focus and accrual basis of accounting. Revenues are recognized when earned, and expenses are recognized when the liability is incurred, regardless of the timing of the related cash flows.

Revenue Recognition

The Green Bank, in addition to utility assessments and RGGI auction income, recognizes revenue from grants as expenses are incurred, as well as interest income from C-PACE and program loans as earned.

CT Solar Loan LLLC derives revenue from interest earned on residential solar loan products.

CEFIA Holdings LLC derives revenue from the sales of photovoltaic energy systems to CT Solar Lease 2 LLC. This amount was eliminated to arrive at the total reporting entity revenue.

CEFIA Solar Services, Inc., revenue consists of an administrative fee from CT Solar Lease 2 LLC. This amount was eliminated to arrive at the total reporting entity revenue.

CT Solar Lease 2 LLC derives revenue from the following sources: operating leases, energy generation, performance based incentives (PBIs) and the sale of Solar Renewable Energy Certificates (SRECs) to third parties.

CT Solar Lease 3 LLC derives revenue from the following sources: energy generation and the sale of Solar Renewable Energy Certificates (SRECs) to third parties.

CGB Meriden Hydro derives revenue from the following sources: energy generation and the sale of Solar Renewable Energy Certificates (SRECs) to third parties.

CGB KCF LLC will have no revenue. All interest in the Kresge loan facility has been transferred to Inclusive Prosperity Capital.

SHREC ABS 1 LLC derives revenue from interest income and the sale of Solar Home Renewable Energy Certificates (SHRECs) to two Connecticut utilities for two tranches of approximately 14,000 rooftop PV systems. Proceeds are directed to trustee accounts and are used for quarterly bond payments on the SHREC ABS collateralized note.

CT Solar Lease 1 derives revenue from interest income from residential solar lease promissory notes secured by specific PV equipment leases (Note 6 - Solar Lease Notes Receivable).

SHREC Warehouse 1 LLC derives revenue from interest income and the sale of SHRECs to two Connecticut utilities for a tranche of approximately 4,800 rooftop PV systems. Proceeds are retained in a restricted bank account by Webster Bank as security for the loan facility for which the revenues have been pledged.

Rental income from operating leases for residential and certain commercial scale solar facilities is recognized on a straight-line basis over the term of each underlying lease.

Energy generation revenue will be recognized as electricity is generated, based on actual output and contractual prices set forth in long term PPAs associated with certain commercial scale facilities.

Revenue from the sale of SRECs and SHRECs to third parties is recognized upon the transfer of title and delivery of the SRECs to third parties and is derived from contractual prices set forth in SREC sale agreements associated with commercial scale facilities.

Operating vs. Nonoperating Revenue (Expense)

All entities distinguish operating revenues and expenses from nonoperating items. Operating revenues consist of utility customer assessments, grants for operating activities and other revenue generated in connection with investments in clean energy programs. Operating expenses consist of operating costs, including depreciation on capital assets and grants and programs. Nonoperating revenue (expense) consists of investment earnings, and other items not considered operational by management.

Use of Accounting Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenditures/expenses during the reporting period. Actual results could differ from those estimates.

Use of Restricted vs. Nonrestricted Resources

When both restricted and unrestricted amounts are available for use, the policy is to use restricted resources for their intended purposes first and then unrestricted resources.

Cash and Cash Equivalents

Cash equivalents consist of cash and highly liquid short-term investments with an original term of 90 days when purchased and are recorded at cost, which approximates fair value.

Capital Assets

Capital asset acquisitions exceeding \$1,000 are capitalized at cost. Maintenance and repair expenses are charged to operations when incurred. Depreciation is computed using straight-line methods over the estimated useful lives of the assets, which range from two to thirty years. Leasehold improvements are amortized over the shorter of their useful life or the lease term.

The estimated useful lives of capital assets are as follows:

| Asset | <u>Years</u> |
|--------------------------------|--------------|
| | |
| Solar lease equipment | 30 years |
| Hydroelectric equipment | 30 years |
| Furniture and equipment | 5 years |
| Leasehold improvements | 5 years |
| Computer hardware and software | 2-3 years |

For capital assets sold or otherwise disposed of, the cost and related accumulated depreciation and amortization are removed from the accounts, and any related gain or loss is reflected in income for the period.

All solar facilities are owned by CT Solar Lease 2 LLC and CT Solar Lease 3 LLC and are stated at cost and include all amounts necessary to construct them. Systems are placed in service when they are ready for use and all necessary approvals have been received from local utility companies. Additions, renewals, and betterments that significantly extend the life of an asset are capitalized. Expenditures for warranty maintenance and repairs to solar facilities are charged to expense as incurred.

Deferred Outflows/Inflows of Resources

In addition to assets, the consolidating statement of financial position will sometimes report a separate section for deferred outflows of resources. This separate financial statement element, deferred outflows of resources, represents a consumption of net position that applies to a future period or periods and so will not be recognized as an outflow of resources (expense) until then. The Green Bank reports deferred outflows related to pension and OPEB in the statement of net position which result from differences between expected and actual experience, changes in assumptions or other inputs, and contributions after the measurement date. These amounts are deferred and included in pension expense and OPEB expense in a systematic and rational manner over a period equal to the average of the expected remaining service lives of all employees that are provided with benefits. The Green Bank also reports deferred amounts relates to asset retirement obligations in the statement of net position, which results from a known future liability to retire certain assets.

In addition to liabilities, the statement of financial position will sometimes report a separate section for deferred inflows of resources. This separate financial statement element, deferred inflows of resources, represents an acquisition of net position or fund balance that applies to a future period or periods and so will not be recognized as an inflow of resources (revenue) until that time. The Green Bank reports deferred inflows of resources related to pensions and OPEB in the consolidated statement of net position which result from differences between expected and actual experience, changes in assumptions or other inputs. These amounts are deferred and included in pension and OPEB expense in a systematic and rational manner over a period equal to the average of the expected remaining service lives of all employees that are provided with benefits.

Impairment of Long-Lived Assets

CT Solar Lease 2 LLC (CT SL2) and CT Solar Lease 3 LLC (CT SL3) review their solar facilities for impairment whenever events or changes in circumstances indicate that the carrying value of an asset may not be recoverable. When recovery is reviewed, if the undiscounted cash flows estimated to be generated by an asset is less than its carrying amount, management compares the carrying amount of the asset to its fair value in order to determine whether an impairment loss has occurred. The amount of the impairment loss is equal to the excess of the asset's carrying value over its estimated fair value. No impairment loss was recognized by CT SL2 or CT SL3 during the fiscal year ended June 30, 2020.

Asset Retirement Obligations

CT SL2 and CT SL3 are required to recognize their liability related to asset retirement obligations when they have the legal obligation to retire long-lived assets. Upon the expiration of operating leases or a Power Purchase Agreement's (PPA's) initial or extended terms, customers generally have the option to purchase the solar facilities at fair market value or require CT SL2 or CT SL3 to remove the solar facilities at their expense.

Asset retirement obligations are recorded in the period in which they are incurred and reasonably estimable, including those obligations for which the timing method of settlement are conditional on a future event that may or may not be in the control of CT SL2 or CT SL3. Retirement of assets may involve efforts to remove the solar facilities depending on the nature and location of the assets. In identifying asset retirement obligations, CT SL2 and CT SL3 consider identification of legally enforceable obligations, changes in existing law, estimates of potential settlement dates, and the calculation of an appropriate discount rate to be used in calculating the fair value of the obligations. For those assets where a range of potential settlement dates may be reasonably estimated, obligations are recorded. CT SL2 and CT SL3 routinely review and reassess their estimates to determine if an adjustment to the value of asset retirement obligations is required.

The aggregate carrying amount of asset retirement obligations recognized by CT SL2 and CT SL3 was \$3,919,988 and \$3,824,355 at June 30, 2020 and June 30, 2019, respectively. The following table shows changes in the aggregate carrying amount of CT SL2 and CT SL3's asset retirement obligation for the year ended June 30, 2020:

| Balance - June 30, 2019 | \$ | 3,824,355 |
|-------------------------|-----|-----------|
| Accretion expense | _ | 95,633 |
| Balance - June 30, 2020 | \$_ | 3,919,988 |

The Green Bank also records a deferred outflow of resources related to this asset retirement obligation. The outflow is being recognized in a systematic and rational manner over the estimated useful life of the tangible capital assets for which the asset retirement obligation relates. A portion of the deferred outflow is recognized each year as an outflow (expense) based upon actual costs incurred that year. The total remaining deferred outflow at June 30, 2020 is \$2,658,143 in the statement of net position.

Pension Accounting

The Green Bank's proportionate share of the net pension liability and expense associated with the Green Bank's requirement to contribute to the Connecticut State Employees Retirement System (SERS) have been determined on the same basis as they are reported by SERS. Contributions made to SERS after the measurement date and prior to the Green Bank's fiscal year are reported as deferred outflows of resources.

OPEB Accounting

The Green Bank's proportionate share of the net OPEB liability and expense associated with the Green Bank's requirement to contribute to the State of Connecticut Other Post-Employment Benefits Program have been determined on the same basis as they are reported by State of Connecticut Other Post-Employment Benefits Program. Contributions made to the State of Connecticut Other Post-Employment Benefits Program after the measurement date and prior to the Green Bank's fiscal year are reported as deferred outflows of resources.

Portfolio Investments

The Green Bank carries all investments at fair value. Fair value is defined as the price that would be received to sell an asset or paid to transfer liability by in an orderly transaction between market participants at the measurement date. As discussed in Note 4, the Green Bank's portfolio investments are managed by Cl. Fair value is determined by Cl's independent valuation committee (Committee) using United States Private Equity Valuation Guidelines promulgated by the Private Equity Investment Guidelines Group. In the absence of readily determinable market values, the Committee gives consideration to pertinent information about the companies comprising these investments, including, but not limited to, recent sales prices of the issuer's securities, sales growth, progress toward business goals and other operating data. CI has applied procedures in arriving at the estimate of the value of such securities that it believes are reasonable and appropriate. Green Bank management reserves the right to establish a reserve in addition to the reserve recommended by the Committee to further account for current market conditions and volatility. Due to the inherent uncertainty of valuation, those estimated values may differ significantly from the amounts ultimately realized from the investments, and the differences could be material. The Green Bank reports gains as realized and unrealized consistent with the practice of venture capital firms. The calculation of realized gains and losses is independent of the calculation of the net change in investment value.

All of the Green Bank's portfolio investments are uninsured against loss and unregistered, and are held in CI's name since the investments were made when the Green Bank's predecessor, the Connecticut Clean Energy Fund, was administered by CI.

Net Position

Net position is presented in the following three categories:

- Investment in Capital Assets represent capital assets, net of accumulated depreciation and amortization that are attributable to those particular assets.
- Restricted Net Position represent assets whose use is restricted through external restrictions imposed
 by creditors, grantors, contributors and the like, or through restrictions imposed by laws or through
 constitutional provisions or enabling legislature, and includes equity interest within the Green Bank's
 component units by outside entities.
- Unrestricted Net Position represents assets which do not meet the definition of the two preceding categories.

Grants and Programs

Expenditures for grants and programs are recorded upon the submission of invoices and other supporting documentation and approval by management. Salaries, benefits and overhead expenses are allocated to program expenses based on job functions.

Reclassifications

Certain amounts in the 2019 summarized information have been reclassified to conform to the 2020 presentation.

Subsequent Events

The Green Bank has performed a review of events subsequent to the statement of net position date through October XX, 2020, the date the financial statements were available to be issued. See Note 22 for further discussion.

2. FAIR VALUE MEASUREMENTS

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements); followed by quoted prices in inactive markets or for similar assets or with observable inputs (Level 2 measurements); and the lowest priority to unobservable inputs (Level 3 measurements). In determining fair value, the Green Bank utilizes valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs. The Green Bank also considers nonperformance risk in the overall assessment of fair value.

2. FAIR VALUE MEASUREMENTS (CONTINUED)

Investments are measured at fair value utilizing valuation techniques based on observable and/or unobservable inputs. Observable inputs reflect readily obtainable data from independent sources, while unobservable inputs reflect market assumptions. These inputs are classified into the following hierarchy:

Level 1

Unadjusted quoted prices in active markets that are accessible at the measurement date for identical assets or liabilities.

Level 2

Inputs other than quoted prices in active markets for identical assets and liabilities that are observable either directly or indirectly for substantially the full term of the asset or liability. Level 2 inputs include the following:

- Quoted prices for similar assets or liabilities in active markets
- Quoted prices for identical or similar assets or liabilities in markets that are not active
- Observable inputs other than quoted prices that are used in the valuation of the asset or liability (e.g., interest rate and yield curve quotes at commonly quoted intervals)
- Inputs that are derived principally from or corroborated by observed market data by correlation or other means

Level 3

Unobservable inputs for the asset or liability (supported by little or no market activity). Level 3 inputs include management's own assumptions about the assumptions that market participants would use in pricing the asset or liability (including assumptions about risk).

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following table sets forth by level, within the fair value hierarchy, the Green Bank's fair value measurements at June 30, 2020:

| | Investment Assets at Fair Value as of June 30, 2020 | | | | | | | | | | |
|-----------------------|---|---------|--|-----|---------|----|---------|---|-----|-------|----|
| 3.01 | | Level 1 | | | Level 2 | | Level 3 | | | Total | |
| | | | | | | | | | | | |
| Portfolio Investments | \$_ | _ | <u>. </u> | \$_ | - | \$ | S1 | _ | \$_ | | 1_ |

The following table sets forth by level, within the fair value hierarchy, the Green Bank's fair value measurements at June 30, 2019:

| | _ | Investment Assets at Fair Value as of June 30, 2019 | | | | | | | | | | |
|-----------------------|----|---|-----|---------|----|---------|----|-------|----|--|--|--|
| | | Level 1 | | Level 2 | | Level 3 | | Total | | | | |
| Portfolio Investments | \$ | - | \$_ | - | \$ | 1_ | \$ | | 1_ | | | |

There were no transfers between levels during the years ended June 30, 2020 and 2019.

3. CASH AND CASH EQUIVALENTS

The following is a summary of cash and cash equivalents for the reporting entity at June 30:

| | 2020 | 2019 |
|---|--------------------------------------|-------------------------------------|
| Checking Money market State Treasurer's Short-Term Investment Fund | \$ 5,744,016 1,828,063 584,014 | 5,821,080 |
| Unrestricted cash and cash equivalents | 8,156,093 | 18,947,214 |
| Checking - restricted Money market - restricted State Treasurer's Short-Term Investment Fund - restricted | 3,801,285 6,413,985 4,694,238 | 5,500,822 5,112,047 6,054,928 |
| Total Cash and Cash Equivalents | \$ 23,065,601 | \$ 35,615,011 |
| ROR DISCUSSION P | RPosi | |

3. CASH AND CASH EQUIVALENTS (CONTINUED)

| | Cash and Cash Equivalents as of June 30, 2020 | | | | | | | | | |
|--|---|------------------------|----|------------------------|-----|-------------------------------------|-----|-------------------------|-----|----------------------------------|
| | • | Primary | | CT Solar | | CEFIA Solar | | CT Solar | | T 4.1 |
| Checking Money market State Treasurer's Short-Term | \$ | 4,292,294 597,022 | \$ | 930,464 460,227 | \$ | Services, Inc. 103,372 20,155 | \$ | 417,886 750,659 | \$ | Total 5,744,016 1,828,063 |
| Investment Fund | _ | 584,014 | | | | 4 | | | | 584,014 |
| Unrestricted cash and cash equivalents | _ | 5,473,330 | | 1,390,691 | | 123,527 | | 1,168,545 | | 8,156,093 |
| Restricted cash: Checking Money market State Treasurer's Short-Term | | 2,578,285 3,584,318 | | 1,140,000 2,829,667 | | 83,000 | | | | 3,801,285 6,413,985 |
| Investment Fund | ď | 4,694,238 | | | \ | | | | | 4,694,238 |
| Restricted cash and cash equivalents | | 10,856,841 | | 3,969,667 | | 83,000 | | | | 14,909,508 |
| Total | \$ | 16,330,171 | \$ | 5,360,358 | \$ | 206,527 | \$ | 1,168,545 | \$_ | 23,065,601 |
| | | | | Cash and Cas | h E | quivalents as | of. | June 30, 2019 | | 9, |
| | • | Primary | | CT Solar | | CEFIA Solar | | CT Solar | | |
| | \ - | Government | | Lease 2 LLC | | Services, Inc. | | Lease 3 LLC | | Total |
| Checking Money market State Treasurer's Short-Term | \$ | 5,559,529 4,941,502 | \$ | 642,875 809,294 | \$ | 51,835 70,023 | \$ | 319, 0 00 261 | \$ | 6,573,239 5,821,080 |
| Investment Fund | | 6,552,895 | | | 4 |) U ' | | | | 6,552,895 |
| Unrestricted cash and cash equivalents | | 17,053,926 | C | 1,452,169 | | 121,858 | | 319,261 | | 18,947,214 |
| Restricted cash: Checking Money market | | 4,277,822 1,592,208 | Y | 1,140,000 3,519,839 | | 83,000 | | | | 5,500,822 5,112,047 |
| State Treasurer's Short-Term Investment Fund | 1 | 6,054,928 | | | | | | | | 6,054,928 |
| Restricted cash and cash equivalents | _ | 11,924,958 | | 4,659,839 | | 83,000 | | | | 16,667,797 |
| Total | \$ | 28,978,884 | \$ | 6,112,008 | \$ | 204,858 | \$ | 319,261 | \$ | 35,615,011 |

State Treasurer's Short-Term Investment Fund

The State Treasurer's Short-Term Investment Fund is a Standard & Poor's AAAm investment pool of high-quality, short-term money market instruments managed by the Cash Management Division of the State Treasurer's Office and operates in a manner similar to money market mutual funds. It is the investment vehicle for the operating cash of the State of Connecticut Treasury, state agencies and authorities, municipalities, and other political subdivisions of the State. The value of the Green Bank's position in the pool is the same as the value of pool shares. Regulatory oversight is provided by an investment advisory council and the State Treasurer's Cash Management Board.

3. CASH AND CASH EQUIVALENTS (CONTINUED)

Investment Maturities

The State Treasurer's Short-Term Investment Fund itself has no maturity date and is available for withdrawal on demand

Interest Rate Risk

The Green Bank manages its exposure to declines in fair value by limiting the average maturity of its cash and cash equivalents to no more than one year. The Green Bank does not have a formal policy relating to a specific investment related risk.

Credit Risk

Connecticut General Statutes authorize the Green Bank to invest in obligations of the U.S. Treasury including its agencies and instrumentalities, commercial paper, banker's acceptance, repurchase agreements and the State Treasurer's Short-Term Investment Fund.

Investment ratings for the Fund's investment are as follows:

& Poor's

AAAm

State Treasurer's Short-Term Investment Fund

Concentration of Credit Risk

The Green Bank's investment policy does not limit the investment in any one investment vehicle. The State Treasurer's Short-term Investment Fund is not subject to this disclosure.

Custodial Credit Risk - Deposits

In the case of deposits, this represents the risk that, in the event of a bank failure, the Green Bank's deposits may not be returned to it. The Green Bank does not have a deposit policy for custodial credit risk. As of June 30, 2020 and 2019, \$14,005,899 and \$19,547,165, respectively, of the Green Bank's bank balances were exposed to custodial credit risk. Primary government consisted of \$8,366,995 and \$13,849,709 as of June 30, 2020 and 2019, respectively. CT Solar Lease 2 LLC consisted of \$4,720,359 and \$5,628,195 as of June 30, 2020 and 2019, respectively. CEFIA Solar Services, Inc. consisted of \$-0- as of June 30, 2020 and 2019. CT Solar Lease 3 LLC consisted of \$918,545 and \$69,261 as of June 30, 2020 and 2019, respectively. Funds held by banks on behalf of the Green Bank, CT Solar Lease 2 LLC and CEFIA Solar Services included contractual requirements to maintain \$10,858,009 in deposits with financial institutions participating in various lease and loan programs, representing loan loss and lease maintenance reserves and guaranty pledge accounts.

3. CASH AND CASH EQUIVALENTS (CONTINUED)

Custodial Credit Risk - Investments

For an investment, this represents the risk that, in the event of the failure of the counterparty, the Green Bank will not be able to recover the value of the investment. The Green Bank does not have a policy relating to the credit risk of investments. As of June 30, 2020 and 2019, the Green Bank had no reportable credit risk.

4. PORTFOLIO INVESTMENTS

The former Connecticut Clean Energy Fund (CCEF) invested in emerging technology companies as equity and debt investments in Operational Demonstration projects. Based on a memorandum of understanding between the Green Bank and CI, CI manages these investments on behalf of the Green Bank.

5. BONDS RECEIVABLE

Subordinate Series 2014B-1 and 2014C-1

This Series represents two \$800,000 bonds received in connection with the Green Bank's May 2014 sale of C-PACE loans to Clean Fund Holdings, LLC (CFH). CFH paid the Green Bank approximately \$6.4 million in cash along with two bonds issued to the Green Bank through Public Finance Authority. The 2014 Series bonds carry interest of 5.30% per annum with a maturity date of September 10, 2034. The bonds are secured by the C-PACE loans sold to CFH. The Green Bank received a principal repayment of \$38,075 and \$8,858 as a result of a C-PACE loan payoff in 2020 and 2016, respectively. As of June 30, 2020, management believes no valuation allowance is necessary on these bonds.

Each bond required semi-annual interest-only payments to the Green Bank starting September 10, 2014 and continuing to September 10, 2034. Starting March 10, 2030 and every six months thereafter, principal payments, along with the required interest is to be paid to the Green Bank.

Subordinate Series 2015B-1 and 2015C-1

This Series represents two \$955,000 bonds received in connection with the Green Bank's August 2015 sale of C-PACE Loans to Clean Fund Holdings, LLC (CFH). CFH paid the Green Bank approximately \$7.7 million in cash along with two bonds issued to the Green Bank through Public Finance Authority. The 2015 Series bonds carry interest of 5.52% per annum with a maturity date of August 13, 2035. The bonds are secured by the C-PACE loans sold to CFH. The Green Bank received principal repayments of \$37,207, \$19,938 and \$81,877 for each bond as a result of C-PACE loan payoffs in 2020, 2019 and 2017, respectively. As of June 30, 2020, management believes no valuation allowance is necessary on these bonds.

Each bond required semi-annual interest-only payments to the Green Bank starting September 10, 2015 and continuing to August 13, 2035. Starting September 10, 2032 and every six months thereafter, principal payments, along with the required interest is to be paid to the Green Bank.

5. BONDS RECEIVABLE (CONTINUED)

Principal maturities of these bonds are as follows:

| Year Ending June 30, | _ | 2014B-1 | 2014C-1 | | 2015B-1 | 2015B-1 | | Total |
|-----------------------------|----|---------|------------|-----|------------|---------|-------|-----------|
| 2021 | \$ | | \$ | \$ | \$ | | \$ | _ |
| 2022 | | | | | | | | _ |
| 2023 | | | | | _, < | | | _ |
| 2024 | | | | | | | | - |
| 202 5 | | | | | | | | - |
| 2026 - 2030 | | 30,000 | 30,000 | | | | | 60,000 |
| 20 31 - 20 35 | | 723,067 | 723,067 | | 632,500 | 632,500 | | 2,711,134 |
| 2036 | | | | | 130,000 | 130,000 | | 260,000 |
| | | | | | | | | |
| | \$ | 753,067 | \$ 753,067 | \$_ | 762,500 \$ | 762,500 | _ \$_ | 3,031,134 |

6. SOLAR LEASE NOTES RECEIVABLE

In June of 2008, the predecessor of the Green Bank, the Connecticut Clean Energy Fund (CCEF) entered into a Master Lease Program Agreement with CT Solar Leasing LLC, a third-party leasing company, AFC First Financial Corporation, a third-party servicer and Firstar Development LLC, the tax equity investor, to develop a residential solar PV leasing program in Connecticut. CCEF purchased a total of \$13,248,685 of promissory notes issued by CT Solar Leasing LLC during the period commencing in April of 2009 and ending in February of 2012 to fund the program. Each nonrecourse promissory note is secured by the payments under a specific PV equipment lease, with a rate of interest of 5% and a term of 15 years. Future principal repayments under the program and the current loss reserve are as follows:

| Future Principal Repayments | |
|-----------------------------|-----------------|
| 7 (6.5) | |
| 2021 | \$ 967,530 |
| 2022 | 1,013,894 |
| 2023 | 1,032,531 |
| 2024 | 1,063,897 |
| 2025 | 821,822 |
| Thereafter | 430,031 |
| | 5,329,705 |
| Less reserve for losses | (382,471) |
| | \$ 4,947,234 |
| Current portion | \$ 967,530 |
| Noncurrent portion | 3,979,704 |
| | \$ 4,947,234 |

7. PROGRAM LOANS RECEIVABLE

Outstanding principal balances by program for the years ended June 30, 2020 and 2019, are as follows:

| | | 2020 | _ | 2019 |
|--|-----|---|------------|-------------|
| Loans in repayment for completed projects: | | | | |
| Connecticut Green Bank | | | | |
| C-PACE Program benefit assessments - in repayment | \$ | 33,956,989 | \$ | 36,373,428 |
| C-PACE Lending Facility | | 2,000,000 | | |
| Grid-Tied Program term loans | | 10,684,289 | | 12,197,048 |
| Multifamily/Affordable housing program loans | | 26,175,211 | | 16,681,271 |
| Alpha/Operational Demonstration program loans | | 650,000 | | 650,000 |
| Other program loans | | 1,428,080 | | 1,523,432 |
| CT Solar Loan I LLC | | | | |
| Residential Solar PV Program Ioans-in repayment | | 1,941,793 | | 2,369,799 |
| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | G | Grani |
| CEFIA Holdings LLC | | e t | | , |
| Other program loans | | 4,579,752 | _ | |
| | .0 | 04 446 444 | | 60 704 079 |
| | | 81,416,114 | | 69,794,978 |
| Reserve for loan losses | _ | (13,110,162) | | (8,890,602) |
| Total loans in repayment for completed projects, net | _ | 68,305,952 | | 60,904,376 |
| Loan advances for projects under construction: | | | | |
| Essar durantes for projects directly and a second second | | | | |
| Connecticut Green Bank | | | | |
| C-PACE Program benefit assessments - under construction | | 13,144,102 | | 7,097,743 |
| Grid-Tied Program term loans - under construction | _ | 4,231,767 | _ | 554,827 |
| Total loans advances for projects under construction | _ | 17,375,869 | _ | 7,652,570 |
| Total | \$_ | 85,681,821 | \$ <u></u> | 68,556,946 |
| Current portion | \$ | 4,396,615 | \$ | 3,756,932 |
| Noncurrent portion | Ψ | 81,285,206 | ~ | 64,800,014 |
| r | _ | ,, | _ | |
| | \$_ | 85,681,821 | \$_ | 68,556,946 |

7.PROGRAM LOANS RECEIVABLE (CONTINUED)

Scheduled repayments of principal under these loans in repayment as of June 30, 2020 is as follows:

| | 2021 | 2022 | 2023 | 2024 | 2025 | Thereafter | Total |
|--|-----------------------|---------------------------|------------------------|------------------------|------------------------|---------------------------|----------------------------|
| Connecticut Green Bank C-PACE Program benefit assessments- | | | | | | | |
| in repayment C-PACE Lending Facility | \$ 1,834,368 | \$ 1,936,110 | \$ 2,042,488 | \$ 2,133,528 \$ | 2,177,722 2,000,000 | \$ 23,832,773 \$ | 33,956,989 2,000,000 |
| Grid-Tied Program term loans Multifamily/Affordable housing term loans Alpha/Operational Demonstration | 982,111 1,148,635 | 1,054,218 17,544,179 | 1,132,578 1,238,003 | 1,217,350 1,371,305 | 1,310,262 1,197,447 | 4,987,770 3,675,642 | 10,684,289 26,175,211 |
| program loans Other program loans | 56,285 | 87,279 | 650,000 118,580 | 135,701 | 82,504 | 947,731 | 650,000 1,428,080 |
| CT Solar Loan I LLC | | | | | | | |
| Residential Solar PV Program Ioans - in repayment | 163,527 | 173,390 | 183,512 | 195,337 | 204,816 | 1,021,211 | 1,941,793 |
| CEFIA Holdings LLC | | | | | | | |
| Other program loans | 260,064 | 279,058 | 291,257 | 301,425 | 309,557 | 3,138,391 | 4,579,752 |
| Reserve for loan losses | 4,444,990 (48,375) | 21,074,234 (2,520,888) | 5,656,418 (589,177) | 5,354,646 (54,560) | 7,282,308 | 37,603,518 (9,897,162) | 81,416,114 (13,110,162) |
| | \$ 4,396,615 | \$ 18,553,346 | \$ 5,067,241 | \$ 5,300,086 \$ | 7,282,308 | \$ 27,706,356 \$ | 68,305,952 |

CPACE Program Benefit Assessments

Benefits assessments under the C-PACE program finance energy efficiency upgrades and the installation of renewable energy equipment on non-residential property. These assessments carry interest rates ranging from 5.0% to 9.0% with terms ranging from 10 to 26 years. On April 18, 2019 the Green Bank repurchased 37 benefit assessments from a third-party capital provider and cancelled the CPACE promissory notes. These benefit assessments carry interest rates ranging from 7.1% to 14.4% and mature at various intervals commencing on September 10, 2036 and ending on March 10, 2037.

CPACE Lending Facility

The Green Bank has advanced \$2,000,000 of a \$5,000,000 CPACE lending facility to a third-party capital provider to finance projects in their CPACE lending program. The loan is interest only paid semi-annually in arrears at a rate of 6.1% beginning December 31,2020. The facility matures on June 20, 2025 with the option of one five-year extension.

Grid-Tied Program Loans

Grid-tied term loans represent the financing of three projects. The first project is the 15-megawatt Bridgeport Fuel Cell Park from Project 150. The primary term loan carries an interest rate of 8% with interest and principal repaid on a monthly basis for a term of 7 years. There is a secondary \$1,800,000 term loan where interest is paid monthly on the outstanding principal balance at a rate of 5.0%, increasing to 8% during 2020, with principal payments beginning in 2026. The second project is a 5 mega-watt wind turbine facility in Colebrook, CT. Interest on a revolving term loan is paid quarterly at prime plus 3%. Interest on a nonrevolving term loan is paid quarterly based on the project's cash flows. The minimum rate of interest on the nonrevolving term loan is 10%. Both loans mature 15 years from the date the project was placed in service in November 2015. As of June 30, 2020 the nonrevolving loan has been paid in full. The third project is an anaerobic digestion facility located in Southington, CT. The term loan carries an interest rate of 2% and interest and principal are repaid on a quarterly basis. Commencing on May 1, 2018 the borrower is required to make annual payments against principal equal to 50% of excess project cash flow as defined in the loan agreement.

7. PROGRAM LOANS RECEIVABLE (CONTINUED)

Multifamily/Affordable Housing Loans

Affordable Housing initiatives include providing term loans to two third-party capital providers to finance solar PV installations and energy efficiency measures for low to moderate income households.

Under the first initiative through June 30, 2020, the Green Bank has advanced all funds under a \$15,000,000 term financing facility with an interest rate of 7.5% payable monthly. The maturity date of all advances under this facility is December 12, 2021. Under another agreement with the same capital provider, the Green Bank has entered into a \$5,000,000 revolving financing facility secured by Performance Based Incentive earnings of the capital provider. Five advances totaling \$5,157,523 have been disbursed. The total of the advances exceeds the total facility limit due its revolving feature which allows repaid funds to be redrawn provided that the outstanding facility balance does not exceed \$5,000,000 at any point in time. Each facility advance repays principal and interest monthly, with a rate of 7.5% and a term of 6 years. Maturity dates range from December 2024 to April 2026.

Under the second initiative, on March 18, 2020 the Green Bank closed a \$6,500,000 facility with a third-party capital provider and moved the existing loan balances of \$3,006,336 under the facility. All notes carry an interest rate of 3% payable along with principal on a monthly basis. The notes have terms of 20 years with maturities ranging from December 2025 to March 2040. As of June 30, 2020 the facility balance is \$4,402,120. On December 24, 2019 the Green Bank closed an additional \$4,500,000 facility with the same capital provider to house, administer, originate and underwrite loans under the Energy Efficiency Loan Program funded by Eversource. Upon closing the outstanding short-term loan of \$1,500,000 was moved under the facility. As of June 30, 2020 the facility balance is \$2,556,000. The loan has a maturity date of December 24, 2022 and a variable interest rate of the higher of prime plus 0.50% or 3.5%.

The Green Bank also originates Multifamily pre-development loans which are advances to developers and owners of multifamily residences to provide funding for project feasibility and site development work. Loans mature in two years and carry no interest. As of June 30, 2020 and June 30, 2019, \$316,067 and \$225,889 has been advanced under this program, respectively.

Alpha/Operational Demonstration Program Loans

Operational demonstration program loans are residual transactions of the programs of the Connecticut Clean Energy Fund. The loans finance the development of emerging clean energy technologies. Repayment of each loan is based upon the commercial success of the technology and carries an interest rate of 6%. If commercial success is not achieved after ten years from the date of the loan agreement, the loan converts to a grant. Connecticut Innovations assists in overseeing these loans.

Other Program Loans

Other program loans represent the financing of feasibility studies for various renewable energy projects or energy efficiency upgrades. This category also includes loans to two third parties to finance purchase of solar facilities developed by the Green Bank. The loans with the first lender carry an interest rate of 5.25% payable along with principal on a quarterly basis for a term of 15 years. As of June 30, 2020 and June 30, 2019 the loan balances were \$1,825,759 and \$987,960, respectively. The loans with the second lender carry an interest rate of 5.5% payable along with principal on a quarterly basis for a term of 15 years. As of June 30, 2020 \$3,697,376 is outstanding on these loans.

7. PROGRAM LOANS RECEIVABLE (CONTINUED)

Residential Solar PV Loans

The residential solar PV loan program administered by CT Solar Loan I LLC makes loans to residential property owners for solar PV installations. Loans carry an interest rate ranging from 6.49% to 6.75% with a term of 15 years.

8. SBEA PROMISSORY NOTES RECEIVABLE

In December of 2018 the Green Bank and Amalgamated Bank entered into a Master Purchase and Servicing Agreement with The Connecticut Light and Power Company dba Eversource Energy to purchase Small Business Energy Advantage (SBEA) loans. The loans are non-interest bearing for a term of up to 48 months. Eversource sells loans in tranches with the purchase price being determined by discounting each loan. A 4.4% discount, or the initial discount rate, was used for the initial purchase plus all purchases in the first year. For loans purchased after the first anniversary of the initial purchase date, the discount is equal to Thirty-Day LIBOR plus 2.25%, or the ensuing discount rate. Amalgamated Bank purchases 90% of the loan portfolio and the Green Bank purchases 10%. Eversource collects monthly payments on customer utility bills and remits to the Green Bank and Amalgamated Bank. Amalgamated Bank receives 90% of the scheduled loan payments, with the Green Bank's payment being adjusted for any shortfall or overage. In the event of default, the loans are fully backed by the Energy Conservation and Load Management Fund a/k/a Connecticut Energy Efficiency Fund (CEEF) that will reimburse the Green Bank. Accordingly, there has been no loan loss reserve until June of 2020, when CEFIA Holdings LLC decided to record a \$366,200 loan loss reserve as a result of COVID-19. The reserve is meant to absorb the potential short-term cash shortfall that will be incurred by CEFIA Holdings LLC if customers are unable to pay their loans and request a three-month deferral of payment which is being offered by Eversource to customers who demonstrate need. It was CEFIA Holdings LLC's expectation that a portion of the portfolio may be deferred, and as a result, the reserve was established to cover the periods prior to reimbursement from CEEF.

On October 21, 2019 the Green Bank and CEFIA Holdings LLC entered into an Assignment and Assumption Agreement with Amalgamated Bank and The Connecticut Light and Power Company whereby the Green Bank assigned its interests in the Master Purchase and Servicing Agreement to CEFIA Holdings LLC. All qualifying loans that were purchased by the Green Bank under the Master Agreement prior to October 2019 were transferred to CEFIA Holdings LLC along with all the duties and obligations required of the Green Bank under the original Master Purchase Agreement.

During 2020 CEFIA Holdings LLC purchased three tranches of loans: (1) 289 loans valued at \$508,229 for \$469,235, (2) 182 loans valued at \$332,057 for \$306,561 and (3) 146 loans valued at \$251,001 for \$236,011. During 2019 the Green Bank purchased two tranches of loans: (1) 4,014 loans valued at \$4,125,361 for \$3,892,133 and (2) 327 loans valued at \$642,759 for \$594,515.

8. SBEA PROMISSORY NOTES RECEIVABLE (CONTINUED)

Future principal repayments under the program are as follows:

| | | Loan Portfolio | _ | Discount | | Balance |
|--------------------------|----|----------------|-----|-----------|----------|-----------|
| | | | | | | |
| 2021 | \$ | 1,640,564 | \$ | (91,072) | \$ | 1,549,492 |
| 2022 | | 904,574 | 4 | (53,197) | | 851,377 |
| 2023 | | 433,334 | | (27,448) | | 405,886 |
| 2024 | | 82,281 | | (5,033) | | 77,248 |
| 2025 | | 320 | | (23) | | 297 |
| | | | - | | _ | |
| Reserve for Loan Losses | | (366,200) | | | | (366,200) |
| | | | | | | |
| | \$ | 2,694,873 | \$ | (176,773) | \$ | 2,518,100 |
| | | | - | | | |
| Current portion | \$ | 1,274,364 | \$ | (91,072) | \$ | 1,549,492 |
| Noncurrent portion | | 1,420,509 | V | (85,701) | • | 968,608 |
| Tionio di Concepti dell' | | 1,120,000 | 7 | (50,1 51) | . 2 | 300,000 |
| | \$ | 2,694,873 | \$ | (176,773) | \$ | 2,518,100 |
| | Ţ | 2,551,50 | | (113,13) | <u> </u> | |
| | | | | 00 | | |
| . LONG TERM DEBT | | | . 6 | QT . | | |
| | | | | | | |
| | | V V | | Transf | er to | Amount |

9. LONG TERM DEBT

| Legal Entity | Description | Balance July 1, 2019 | Additions | Payments | Transter to Strategic Partner | Balance June 30, 2020 | Amount Due in One Year |
|------------------------------|--|-------------------------|-----------|------------------|-------------------------------------|--------------------------|------------------------------|
| Connecticut Green Bank | Bonds Payable - CREBs 2017 - Meriden Hydro | \$ 2,798,331 \$ | | \$ (1.09,041) \$ | 6 | \$ 2,689,290 | \$ 123,718 |
| Connecticut Green Bank | Bonds Payable - CREBs 2017 - CSCU | 9,101,729 | | (515,976) | | 8,585,753 | 522,198 |
| Total Connecticut Green Bank | 463 | 11,900,060 | - | (625,017) | - | 11,275,043 | 645,916 |
| SHREC ABS 1 LLC | Bonds Payable - SHREC ABS | 38,499,000 | - | (2,243,000) | | 36,256,000 | 2,130,000 |
| SHREC ABS 1 LLC | Bonds Payable - SHREC ABS - Discount | (71,243) | | 5,181 | | (66,062) | |
| Total SHREC ABS 1 LLC | 460 | 38,427,757 | | (2,237,819) | | 36,189,938 | 2,130,000 |
| Total Bonds | | 50,327,817 | | (2,862,836) | | 47,464,981 | 2,775,916 |
| CGB KCF LLC | Note Payable - Kresge Foundation (KCF) | 1,000,000 | - | | (1,000,000) | - | |
| CT Solar Loan I LLC | Note Payable - Solar Mosaic | 296,560 | | (296,560) | | - | - |
| CT Solar Loan I LLC | Note Payable - Reinvestment Fund | 1,367,685 | | (1,3 67,685) | | | |
| Total - Solar Loan LLC | | 1,664,245 | | (1,664,245) | | | |
| CT Solar Lease 2 LLC | Note Payable - Key Bank / Webster Bank | 22,983,920 | | (2,129,680) | | 20,854,240 | 1,600,000 |
| CEFIA Solar Services Inc. | Note Payable - CHFA | 1,650,931 | | (94,790) | | 1,556,141 | 94,788 |
| Total Notes Payable | | 27,299,096 | | (3,888,715) | (1,000,000) | 22,410,381 | 1,694,788 |
| Connecticut Green Bank | Pension Liability | 25,805,346 | - | (630,893) | | 25,174,453 | |
| Connecticut Green Bank | OPEB Liability | 24,000,448 | 4,484,523 | <u> </u> | | 28,484,971 | |
| Total | | \$ 127,432,707 \$ | 4,484,523 | \$ (7,382,444) | (1,000,000) | \$123,534,786 | \$ 4,470,704 |

10. FINANCING ACTIVITIES

Short-Term Debt - Primary Government

Connecticut Green Bank Line of Credit - Amalgamated Bank

On May 22, 2019 the Green Bank executed a \$5,000,000 line of credit ("LOC") with Amalgamated Bank which was amended on June 30, 2020 to extend the maturity date to May 21, 2021, modify the interest rate, increase the collateral and apply a quarterly commitment reduction to the maximum LOC balance outstanding. The facility is revolving and funds can be advanced and repaid in increments of \$50,000 or more until the availability period ends 15 days before maturity or May 6, 2021. All principal for advances made under the LOC are due at maturity on May 21, 2021. Advances can be prepaid without penalty. Through the availability period the amount by which the aggregate commitment exceeds aggregate advances is subject to a 0.2% unused commitment fee. The maximum loan availability permanently decreases by \$300,000 each quarter beginning September 30, 2020. At the time of the original closing the Green Bank paid the lender a commitment fee of \$20,000. Upon the LOC renewal on June 30, 2020 the Green Bank paid a \$20,000 renewal fee. As of June 30, 2020 \$5,000,000 in loans have been advanced and \$4,900,000 have been repaid leaving a balance of \$100,000. As of June 30, 2019, no loans had been advanced.

The LOC is guaranteed by a security interest in all present and future personal property and the proceeds thereof, of CT Solar Lease 1 LLC ("CTSL1") and CT Solar Loan I LLC ("CTSLNI"). CTSL1 manages a portfolio of residential solar lease promissory notes. As of June 30, 2020 and 2019, the promissory note balances, net of reserves were \$5,276,408 and \$6,303,262, respectively. CTSLNI manages a portfolio of residential solar loans. As of June 30, 2020 and 2019, the loan balances, net of reserves were \$1,892,879 and \$2,369,799, respectively.

Interest to be paid on each advance commences on the date the advance is disbursed and ends one month thereafter. Interest is calculated based as the greater of (1) the Prime Rate as published in the Wall Street Journal minus 0.80% or (2) 2.45%. As of June 30, 2020 and 2019, \$64,250 and \$0 respectively, have been paid as interest to the lender.

SHREC Warehouse 1 LLC Line of Credit

On July 19, 2019 SHREC Warehouse 1 LLC executed a \$14,000,000 line of credit ("LOC") with Webster Bank N.A. and Liberty Bank, with Webster Bank as the administrative agent. The LOC is broken down by lender as follows:

| Liberty Bank | \$ | 7,000,000 |
|------------------------------------|----|------------|
| Webster Bank, National Association | _ | 7,000,000 |
| | \$ | 14,000,000 |

Funds must be advanced during an availability period which ends on July 31, 2020. All advances must be made in a principal amount of \$250,000 or in additional whole multiples of \$50,000. Each loan advance will be shared by the participating lenders in accordance with their pro-rata share of the of the total facility commitment. All principal on advances made under the LOC are due at maturity which is (1) the initial maturity date of July 31, 2020 or (2) the extended maturity date which extends the maturity for one or more additional one-year periods. Advances can be prepaid without penalty. Through the availability period the amount by which the aggregate commitment exceeds aggregate advances is subject to a 0.5% unused commitment fee. At the time of closing SHREC Warehouse 1 LLC paid the lenders a commitment fee of \$85,000. As of June 30, 2020 \$6,000,000 has been advanced under the LOC.

The LOC is collateralized with revenues generated from Tranche 3 solar facilities under the Master Purchase Agreement ("MPA") the Green Bank entered into with Connecticut's two investor owned public utilities. Under the MPA each utility must purchase Solar Home Energy Credits ("SCHRECs") generated by solar PV facilities located in its service area from the Green Bank. See Note 21 for further detail on the SHREC program. In connection with the LOC, SHREC Warehouse 1 LLC is required to establish and maintain a collections account with Webster Bank into which all proceeds from the sale of SHRECs are to be deposited and an interest reserve account with each lender. As of June 30, 2020 the collections account balance was \$1,889,973, and the cumulative balance in the interest reserve accounts was \$99,534.

Interest to be paid on each advance commences on the date the advance is disbursed and ends one month thereafter. Interest is calculated based on the one-month LIBOR rate plus the applicable margin of 240 basis points. As of June 30, 2020, \$125,962 in interest has been paid to the lenders.

Long-Term Debt - Primary Government

CT Solar Loan I LLC Line of Credit

On February 3, 2014, CT Solar Loan I LLC (SLI) executed a \$4,000,000 line of credit with Solar Mosaic, Inc. (LOC). The LOC was amended in June 2015 to \$1,100,000. Borrowings on the LOC immediately turn into a term note with predefined repayment terms at the time of borrowing. No further borrowings were available after June 30, 2015. Borrowings on the Mosaic LOC bear interest at 6.4586% (Base Rate) and SLI exercised its option to buy-down the interest rate to 6.00% (Reduced Rate) by making a payment on the borrowing date of 2.875% of the principal amount of the loan (Rate Buy-down Amount). As of June 30, 2020 and 2019 the outstanding principal balance was \$0 and \$296,560, respectively.

In connection with the LOC, SLI is required to establish and maintain a collections account, debt service reserve account and a loan loss reserve account. Deposits shall be made into the collections account for all payments received from residential borrowers against loans securing the LOC. The debt service reserve account is required to have no less than six months forward-looking principal and interest payments for the loans outstanding. The loan loss reserve account required a one-time deposit of \$300,000 as of June 30, 2014 which was reduced to \$82,500 as of June 30, 2015.

On June 19, 2020 the loan was paid in full. The debt service reserve and the loan loss reserve accounts remain open as of June 30, 2020 while SLI waits for the funds to be released by the bank.

CT Solar Loan I LLC Term Note

On April 25, 2016, CT Solar Loan I LLC (SLI) executed a \$2,510,837 Loan Agreement and Promissory Note (Note) with the Reinvestment Fund, Inc. The Note carries a fixed interest rate of 6.02%. Interest and principal repayments are amortized over a hypothetical 15 year period. The Note has a maturity date of April 1, 2023 with all unpaid principal and accrued interest due at that time. Principal repayments and interest payments are made in monthly installments beginning June 1, 2016. As of June 30, 2020 and 2019 the outstanding principal balance was \$0 and \$1,367,686, respectively.

In connection with the Note, SLI is required to establish and maintain a collections account, and maintain \$217,500 in a loan loss reserve account. Deposits shall be made into the collections account for all payments received from residential borrowers against loans securing the Note.

On June 19, 2020 the loan was paid in full. The \$217,500 loan loss reserve account remains open as of June 30, 2020 while SLI waits for the funds to be released by the bank.

SHREC ABS 1 LLC Collateralized Note

On March 29, 2019, the Board of Directors authorized the Green Bank to offer for sale, and to sell two classes of Series 2019-1 Notes as follows: 1) \$36,800,000 of Class A Notes, and 2) \$1,800,000 of Class B Notes that would be issued by SHREC ABS 1 LLC, a special purpose Delaware limited liability company that is a wholly owned subsidiary of the Green Bank. The Class A Notes carry an interest rate of 5.09% while the Class B Notes carry an interest rate of 7.04%. Both classes of notes are for a term of 14 years, maturing on March 15, 2033.

The note is collateralized by revenue from quarterly sales of Solar Home Renewable Energy Credits (SHRECs) for two tranches of approximately 14,000 residential solar PV systems to two Connecticut utilities. Collections from these billings and disbursements of funds to the bondholder and the Green Bank are managed by the trustee, Bank of New York Mellon. Interest and principal payments are quarterly per the bond schedule which anticipates the fluctuations in SHREC revenue due to seasonal solar PV generation.

On April 2, 2019, both notes were sold to a single investor as a private placement. The proceeds were used to pay off a short-term loan facility, for further Green Bank investments and to support the sweep payment of \$14,000,000 to the State of Connecticut.

Future maturities on borrowings under the SHREC ABS are as follows:

| Years Ending June 30, | Principal | | Interest | _ | Total |
|-----------------------|-----------|------------|---------------|-----|------------|
| | | | | | |
| 2021 | \$ | 2,130,000 | \$ 1,833,353 | \$ | 3,963,353 |
| 2022 | | 2,263,000 | 1,720,887 | | 3,983,887 |
| 2023 | | 2,382,000 | 1,601,258 | | 3,983,258 |
| 2024 | | 2,477,000 | 1,475,724 | | 3,952,724 |
| 2025 | | 2,566,000 | 1,345,747 | | 3,911,747 |
| 2026-2030 | | 15,303,000 | 4,518,151 | | 19,821,151 |
| 2031-2033 | | 9,135,000 | 660,835 | | 9,795,835 |
| | | | | | |
| | \$ | 36,256,000 | \$ 13,155,955 | \$_ | 49,411,955 |

CGB KCF LLC Kresge Loan

On December 6, 2017 CGB KCF LLC executed a program-related investment loan in the aggregate principal amount of \$3,000,000 to be provided in multiple disbursements ending 18 months after the closing date. The loan is evidenced by promissory note with a term of 10 years that bears an interest rate of 2.0% requiring interest payments be made quarterly in arrears. The note is interest only through December 6, 2026. The outstanding principal of the note is payable in two installments. On December 6, 2026 one-half of the aggregate amount disbursed is due and payable with all remaining amounts payable on December 6, 2027.

Proceeds from the loan must follow program investment guidelines that specify originating loans to at least nine targeted projects to fund the installation of combined solar panel and battery storage systems while meeting the goals of relieving poverty and distress, combatting community deterioration, revitalizing neighborhoods and lessening the burdens of government.

On December 14, 2018 CGB KCF LLC received a disbursement of \$1,000,000 which was held by Connecticut Green Bank in a restricted cash account until January 23, 2020 when it was transferred to Inclusive Prosperity Capital, Inc. (IPC) with the agreement of the Kresge Foundation. IPC has assumed full responsibility for the Ioan and reporting to Kresge as of January 21, 2020. IPC is a not-for-profit strategic partner of the Connecticut Green Bank focused on increasing access to capital to Iow-to-moderate income communities, nonprofits, faith-based organizations, housing authorities, schools, and smaller businesses. As of June 30, 2020 CGB has no interest in this Ioan.

Connecticut Green Bank New Clean Renewable Energy Bond

On February 26, 2016, the Board of Directors of the Green Bank authorized the issuance of a New Clean Energy Renewable Energy Bond (CREB) in an amount not to exceed \$3,000,000 to finance a portion of the acquisition cost of a 193kW Hydroelectric Facility located in Meriden, Connecticut, by CGB Meriden Hydro LLC, a subsidiary of the Green Bank. On February 2, 2017 the Green Bank issued a CREB in the amount of \$2,957,971 with an annual interest rate of 4.19%, maturing on November 15, 2036. Interest and principal payments are to be paid annually on November 15. Proceeds from the sale of the CREB were deposited with the bond trustee and were disbursed upon acquisition of the hydroelectric facility from its developer on August 31, 2017. Proceeds from the sale of electricity generated by the facility to the City of Meriden along with revenue from the associated renewable energy credits will fund the payment of principal and interest on the CREB. The CREB qualified for a tax credit from the U.S. Treasury under Section 54C of the Internal Revenue Code. The tax credit will be paid in the form of a subsidy to the Green Bank. The project also qualified to receive an interest rate subsidy from the local electricity utility through a program approved by the Connecticut Public Utility Regulatory Authority (PURA). This subsidy will be paid directly to the purchaser of the CREB. Both these subsidies will reduce the borrowing costs of the Green Bank.

Future maturities on borrowings under the CREB is as follows:

| Years Ending June 30, | Principal | Interest | U.S. Treasury Tax Subsidy | CT PURA Interest Subsidy | Total |
|---------------------------|-----------------------|-----------------------|------------------------------------|----------------------------------|-------------------------------|
| 2021 2022 | \$ 123,718 134,348 | \$ 112,681 107,497 | \$ (79,479) \$ (75,822) | (18,013) \$ (18,013) | 138,907 148,010 |
| 2022 2023 2024 | 158,669 163,905 | 101,868 95,220 | (73,822) (71,852) (67,162) | (18,013) (18,013) (18,013) | 170,672 173,950 |
| 2024 2025 2026-2030 | 169,247 856,159 | 88,352 334.099 | (62,318) (62,554) | (18,013) | 173,930 177,268 918,578 |
| 2031-2035 2036-2037 | 771,404 311,840 | 159,383 19.691 | (233,654) (112,419) (13,889) | (36,026) | 818,368 317,642 |
| 2000-2007 | \$ 2,689,290 | \$1,018,791 | | (126,091) \$ | 2,863,395 |

On September 28, 2017, the Board of Directors of the Green Bank authorized the issuance of a CREB in an amount not to exceed \$9,350,000 to finance the installation of various solar projects for the benefit of the Connecticut State College and University System (CSCUS). To that end on December 29, 2017, the Green Bank entered into an equipment lease/purchase agreement financed by the issuance of a \$9,101,729 CREB with an annual interest rate of 4.90%, maturing on November 15, 2037 to construct and lease these solar facilities to CSCUS. Interest and principal payments are to be paid annually on November 15. Proceeds from the sale of the CREB were deposited with an escrow agent and \$9,079,618 has been disbursed to construct the eight solar facilities now in service. The remaining \$22,111 in escrow funds will be used for the November 15, 2020 bond payment. Proceeds from the sale of electricity generated by the facilities to CSCUS along with revenue from the associated renewable energy credits will fund the payment of principal and interest on the CREB. The CREB qualified for a tax credit from the U.S. Treasury under Section 54C of the Internal Revenue Code. The tax credit will be paid in the form of a subsidy to the Green Bank. The project also qualified to receive an interest rate subsidy from the local electricity utility through a program approved by the Connecticut Public Utility Regulatory Authority (PURA). This subsidy will be paid directly to the purchaser of the CREB. Both these subsidies will reduce the borrowing costs of the Green Bank.

Future maturities on borrowings under the CREB is as follows:

| | | | | U.S. Treasury Tax | CT PURA Interest | | |
|-----------------------|-------|------------|-----------|----------------------|---------------------|----------------|-----|
| Years Ending June 30, | Prin | cipal | Interest | Subsidy | Subsidy | Total | |
| 2021 | \$ | 522,198 \$ | 420,702 | \$ (223,573) | (56,417) | \$ 662,9 | 910 |
| 2022 | | 528,550 | 395,114 | (209,975) | (56,417) | 657,2 | 272 |
| 2023 | | 535,036 | 369,215 | (196,212) | (56,417) | 651,0 | 622 |
| 2024 | | 541,657 | 342,999 | (182,279) | (56,417) | 645, | 960 |
| 2025 | | 548,416 | 316,457 | (168,174) | (56,417) | 640,2 | 282 |
| 2026-2030 | 2, | 848,465 | 1,172,333 | (623,011) | (169,251) | 3,228, | 536 |
| 2031-2035 | 2, | 299,217 | 474,088 | (251,944) | | 2,521, | 361 |
| 2036-2038 | | 762,214 | 74,863 | (39,784) | | 797,2 | 293 |
| | 4 | 505.350 A | 0.505.334 | 4 (4 004 050) | * (454,000) | A 0.005 | 000 |
| | \$ 8, | 585,753 \$ | 3,565,771 | \$ (1,894,952) | (451,336) | \$ 9,805,2 | 236 |

Long-Term Debt - Primary Government - Discretely Presented Component Units

CEFIA Solar Services Inc. Term Note

On October 18, 2016, CEFIA Solar Services, Inc., executed a term note with the Connecticut Housing Finance Authority (CHFA) in the amount of \$1,895,807 with an interest rate of 2.5% with a 20-year term maturing on November 1, 2036. Principal and interest are payable monthly. CEFIA Solar Services, Inc., in its role as managing member of CT Solar Lease 2 LLC (CT SL2) lent these funds to CT SL2 through the execution of a subordinated promissory note of same date. CT SL2 used these funds to finance the acquisition of renewable energy equipment and installation of energy efficiency measures by eleven housing developments owned by municipalities throughout Connecticut.

Future maturities on borrowings under CHFA is as follows:

| Years Ending June 30, | _ | Principal | Interest | | _ | Total |
|------------------------|-----|--------------------|----------|-------------------|-----|--------------------|
| 2021 | \$ | 94,788 | \$ | 37,817 | \$ | 132,605 |
| 2021 | Ψ | 94,788 | Ψ | 35,448 | Ψ | 130,236 |
| 2023 | | 94,788 | | 33,078 | | 127,866 |
| 2024 | | 94,788 | | 30,708 | | 125,496 |
| 2025 | | 94,788 | | 28,338 | | 123,126 |
| 2026-2030 2031-2035 | | 473,953 473,953 | | 106,146 47,001 | | 580,099 520,954 |
| 2036-2037 | _ | 134,295 | | 2,518 | _ | 136,813 |
| | \$_ | 1,556,141 | \$_ | 321,054 | \$_ | 1,877,195 |

Line of Credit - Discretely Presented Component Unit - CT Solar Lease 2 LLC

CT Solar Lease 2 LLC has a \$27,600,000 line of credit agreement (Additional LOC) with Key Bank as the Administrative Agent and Lender along with an additional participating lender. The additional LOC is broken down by lender as follows:

| Key Bank | \$ | 17,250,000 |
|------------------------------------|----|------------|
| Webster Bank, National Association | | 10,350,000 |
| | | |
| | \$ | 27,600,000 |

Funds may be drawn down in no more than ten total advances by March 31, 2017. With the exception of the final advance, each advance must be in the principal amount of \$2,760,000 or a whole multiple of \$100,000 in excess of \$2,760,000. Each loan funding will be shared by all participating lenders in accordance with their pro-rata share of the total facility commitment. As of June 30, 2017, \$27,500,633 had been advanced under the additional LOC through March 31, 2017 the advance termination date. Principal repayments as of June 30, 2020 and 2019, were \$2,129,679 and \$681,547, respectively.

Each advance will be amortized separately. CT Solar Lease 2 LLC has the option with each advance of selecting between the LIBOR rate or the base rate which is defined as the highest of (a) the Federal Funds Effective Rate plus one-half of 1 percent, (b) Key Bank's prime rate, and (c) the LIBOR rate plus 1%. CT Solar Lease 2 LLC may also elect to convert an advance from one rate to the other by following the process outlined in the credit agreement.

Payments of interest with respect to any LIBOR rate advances are due on the 15th day of the month following each calendar quarter end. Payments of interest with respect to any base rate advances are due monthly. Payments of principal with respect to all advances are due on the 15th day of the month following each calendar quarter end. Principal payments on each advance will be based on a modified 15-year amortization schedule and are calculated as the lessor of 2.1675% of the initial principal amount of each advance or the net operating income with respect to the projects purchased with each advance as defined in the credit agreement.

Within one month of each advance, CT Solar Lease 2 LLC is required to enter into an interest rate swap contract with respect to a minimum amount of 75% of such advance. If one of the participating lenders is the counterparty to the swap contract, such contract will be secured by the collateral of the credit agreement; otherwise, the swap contract will be unsecured. See Note 11.

Certain obligations of CT Solar Lease 2 LLC under the credit agreement are guaranteed by the Green Bank. This credit agreement is secured by all assets of CT Solar Lease 2 LLC as well as CEFIA Solar Services (the Managing Member) interest in CT Solar Lease 2 LLC. There are no prepayment penalties. There are certain debt service coverage ratios CT Solar Lease 2 LLC must maintain related to each separate advance and which require the separate measurement of the net operating income with respect to the projects purchased with each advance.

11. INTEREST RATE SWAP AGREEMENT

CT Solar Lease 2 LLC entered into a multi-year interest rate swap agreement with Key Bank (the KeyBank Agreement) in September 2014 in anticipation of making its first draw down on the credit agreement with KeyBank. Payments made and received were based on a notional amount of \$12,091,575 and \$13,912,275 as of June 30, 2020 and 2019, respectively. The KeyBank Agreement provides for CT Solar Lease 2 LLC to receive payments based on the one-month USD-LIBOR-BBA (0.19388% and 2.39425% at June 15, 2020 and 2019, respectively, the dates of the last reset) and to make payments based on fixed interest rates ranging from 1.96% to 2.78%. The KeyBank Agreement matures on December 15, 2025. The fair value of the KeyBank Agreement as of June 30, 2020 and 2019 was reported as a liability of \$1,093,780 and \$500,465, respectively, which is represented as the fair value of the interest rate swap on the accompanying 2020 and 2019 statement of net position.

CT Solar Lease 2 LLC entered into an interest rate swap agreement with Webster Bank (the Webster Agreement) in June of 2017 to meet certain requirements under its credit agreement with KeyBank in which Webster Bank also participates. Payments made and received were based on a notional amount of \$1,479,800 and \$1,653,200 as of June 30, 2020 and 2019, respectively. The Webster Agreement provides for CT Solar Lease 2 LLC to receive payments based on the one-month USD-LIBOR-BBA (0.18475% at June 30, 2020 and 2.39425% at June 30, 2019) and to make payments based on a fixed rate of 2.10%. The Webster Agreement matures on June 15, 2027. The fair value of the Webster Agreement as of June 30, 2020 and 2019 was reported as a liability of \$70,576 and \$22,759, respectively, which is a component of the fair value of interest rate swap on the accompanying 2020 and 2019 statement of net position.

CT Solar Lease 2 LLC uses the dollar-offset method for evaluating effectiveness of the interest rate swap agreements.

12. RELATED PARTY TRANSACTIONS AND OPERATING LEASES

Due to Outside Agency

The Green Bank utilizes the services of CI when needed for certain operating expenses. CI provides these services at cost. Such services include, but are not limited to, staff for human resources, office space, equipment leases and office expenses. Expenses billed to the Green Bank by CI totaled \$5,021 and \$0 for the years ended June 30, 2020 and 2019, respectively. As of June 30, 2020 and 2019, no amounts was due to CI.

Unused Commitment Fee

The Investor Member of CT Solar Lease 3 LLC is entitled to an annual fee due within 30 days of the end of each calendar quarter, calculated on a monthly basis, based on the amount of the Investor Member's unfunded capital contributions. The fee for each month is equal to 1.25% times the amount by which the Investor Member's contribution cap exceeds the total capital contributions funded as of the last day of the month in question divided by twelve. Amounts not paid timely accrue interest at the U.S. Bank Prime Rate in effect on the due date plus 2%. In accordance with the Operating Agreement, the unused commitment fee is paid to the Investor Member by the Managing Member of CT Solar Lease 3, CEFIA Holdings LLC, and not the Company. The Managing Member will not be required to pay unused commitment fees once the contractual Completion Deadline of September 30, 2018 has passed. The unused commitment fee totaled \$0, and \$27,848 for the years ended June 30, 2020 and 2019, respectively.

12. RELATED PARTY TRANSACTIONS AND OPERATING LEASES (CONTINUED)

Priority Return

The Investor Member is the Tax-Equity Investor and is entitled to substantially all of the tax benefits of both CT Solar Lease 2 LLC and CT Solar Lease 3, LLC until January 1 of the year which is five years after the date the last project is installed, which is anticipated to be January 1, 2023 for CT Solar Lease 2 LLC and January 1, 2024 for CT Solar Lease 3, LLC, the Flip Date.

The Investor Member of CT Solar Lease 2 LLC shall be due a cumulative, quarterly distribution, payable by CT Solar Lease 2 LLC, equal to 0.5% of its paid-in capital contributions in respect of projects beginning at the end of the first quarter after the first project acquisition capital contribution is made and continuing until the Flip Date. To the extent the priority return is not paid in a quarter until the Flip Date, unpaid amounts will accrue interest at the lower of 24% per annum or the highest rate permitted by law.

In accordance with the Operating Agreement, all amounts and accrued interest due on the priority return are to be paid from net cash flow prior to certain required payments due under the Credit Agreement. The Investor Member was paid priority returns of \$511,540 and \$510,142 for the years ended June 30, 2020 and 2019, respectively.

The Investor Member of CT Solar Lease 3 LLC shall be due a cumulative, quarterly distribution, payable by CEFIA Solar Services, Inc., its managing member, equal to 0.5% of its paid-in capital contributions in respect of projects beginning at the end of the first quarter after the first project acquisition capital contribution is made and continuing until the Flip Date. To the extent the priority return is not paid in a quarter until the Flip Date, unpaid amounts will accrue interest at the lower of 24% per annum or the highest rate permitted by law.

In accordance with the Operating Agreement, all amounts and accrued interest due on the priority return are to be paid from net cash flow prior to certain required payments due under the Credit Agreement. The Investor Member was paid priority returns of \$86,494 and \$78,521 for the years ended June 30, 2020 and 2019, respectively.

Administrative Services Fee

The Managing Member of CT Solar Lease 2 LLC, CEFIA Solar Services, Inc., provides administrative and management services and earns a quarterly fee initially equal to \$30,000 per quarter beginning July 1, 2013. The amount of the fee increased 2.5% each July 1 beginning July 1, 2014. The administrative services fee totaled \$139,163 and \$135,769 for the years ended June 30, 2020 and 2019, respectively, and is included in accounts payable and accrued expenses on the accompanying statement of net position.

Payroll Taxes and Fringe Benefit Charges

Pursuant to state statute, the Green Bank is subject to fringe benefit charges for pension plan and medical plan contributions which are paid at the state level. The Green Bank's employer payroll taxes are also paid at the state level. The Green Bank reimburses the state for these payments. The reimbursement for 2020 and 2019 was \$3,231,128 and \$3,734,571, respectively, comprising 82.23% and 89.01% respectively, of gross salaries.

12. RELATED PARTY TRANSACTIONS AND OPERATING LEASES (CONTINUED)

Operating Leases

During 2014, the Green Bank entered into a noncancelable operating lease with an unrelated entity for its main office space. The lease calls for monthly escalating payments beginning at \$12,567 through December 31, 2020. Rent expense related to this lease for the years ended June 30, 2020 and 2019 was \$183,047 and \$175,571, respectively. The Green Bank anticipates signing a new lease for this space in February 2021. The lease will be a noncancelable operating lease calling for initial monthly payments of \$14,966, with escalating payments through August 2031.

In addition, the Green Bank has a noncancelable operating lease for an additional office space from an unaffiliated entity which calls for initial monthly payments of \$7,333, with escalating payments through December 2020. Rent expense related to this lease for the years ended June 30, 2020 and 2019, amounted to \$97,723 each year. In August of 2020 the Green Bank signed a new lease for this office space. The lease is a noncancelable operating lease which calls for initial monthly payments of \$10,488, with escalating payments through April 2026.

In addition, the Green Bank leases office equipment on a month-to-month basis. Rent expense related to the office equipment for the years ended June 30, 2020 and 2019, was \$1,314 and \$13,425, respectively.

Future minimum lease payments for office rentals are as follows:

| | ears Ending June 30, | | |
|--------|----------------------|----|-----------|
| | | | 41112 |
| | 2021 | \$ | 292,131 |
| | 2022 | | 292,885 |
| | 2023 | | 318,987 |
| | 2024 | | 326,273 |
| | 2025 | | 333,237 |
| | Thereafter | | 1,484,394 |
| 46 | | • | |
| | | \$ | 3,047,907 |
| . O V' | | - | |
| kon. | | | |

13. CAPITAL ASSETS

Capital asset activity for reporting entity for the years ended June 30, 2020 and 2019, are as follows:

Primary Government:

| 2020 | _ | Balance, July 1, 2019 | _ | Additions | | Deletions | Adjustments | | Balance, June 30, 2020 |
|--|-----|--------------------------|-----|-----------------------------|-----|------------|-------------|-----|-------------------------------|
| Capital assets being depreciated: Solar lease equipment | \$ | 8,282,230 | \$ | 2,176,352 | \$ | | \$ | \$ | 10,458,582 |
| Furniture and equipment | | 4,733,640 | | | | | | | 4,733,640 |
| Computer hardware and software | | 201,134 | | 8,873 | | (1,497) | | | 208,510 |
| Leas ehold improvements | _ | 192,027 | _ | | | | | | 192,027 |
| | _ | 13,409,031 | _ | 2,185,225 | | (1,497) | - | | 15,592,759 |
| Less accumulated depreciation and amortization: | | | | | | | | | |
| Solar lease equipment | | 105,017 | | 330,483 | | | | | 435,500 |
| Furniture and equipment | | 459,632 | | 154,407 | | | | | 614,039 |
| Computer hardware and software | | 170,590 | | 20,536 | | (1,497) | | | 189,629 |
| Leas ehold improvements | _ | 177,320 | _ | 7,674 | \ _ | (4.407) | | - | 184,994 |
| | \ - | 912,559 | - | 513,100 | ٠, | (1,497) | | - 1 | 1,424,162 |
| Capital Assets, Net | \$_ | 12,496,472 | \$_ | 1,672,125 | \$ | - | \$ | \$ | 14,168,597 |
| | | | | | | | 000 | 7 | |
| 2019 | | Balance, July 1, 2018 | | Additions | | Deletions | Adjustments | | Balance, June 30, 2019 |
| 2019 | | July 1, 2016 | _ | Additions | - | Deleuons | Adjustments | | June 30, 2019 |
| Capital assets being depreciated: | | | | | | OT | | | |
| Solar lease equipment | \$ | | \$ | 8,282,230 | \$ | 11.0 | \$ | \$ | 8,282,230 |
| Furniture and equipment | | 4,084,161 | | 649,479 | | | | | 4,733,640 |
| Computer hardware and software | | 215,458 | 1 | 17,506 | | (31,830) | | | 201,134 |
| Leas ehold improvements | - 7 | 192,027 | A | 2010.015 | - | 10.1.00.01 | | | 192,027 |
| | _ | 4,491,646 | U | 8,949,215 | | (31,830) | | | 13,409,031 |
| Less accumulated depreciation and amortization: | | | | | | | | | |
| and amortization. | | .63 | | | | | | | |
| Solar lease equipment | | 122, | | 105,017 | | | | | 105,017 |
| | -1 | 282,278 | | 105,017 177,354 | | | | | 105,017 459,632 |
| Solar lease equipment | | 282,278 174,621 | | · | | (30,207) | | | |
| Solar lease equipment Furniture and equipment | 3 | 174,621 166,723 | _ | 177,354 26,176 10,597 | | | | | 459,632 170,590 177,320 |
| Solar lease equipment Furniture and equipment Computer hardware and software | | 174,621 | · _ | 177,354 26,176 | | (30,207) | | | 459,632 170,590 |

13. CAPITAL ASSETS (CONTINUED)

Discretely presented component units:

| 2020 | _ | Balance, July 1, 2019 | | Additions | _ | Deletions | | Adjustments | _ | Balance, June 30, 2020 |
|---|-----|--------------------------|-----|-------------|-----|-----------|-----|-------------|-----|---------------------------|
| Capital assets being depreciated: Solar lease equipment Less accumulated depreciation | \$ | 76,637,064 | \$ | 367,030 | \$ | (19,440) | \$ | (2,365) | \$ | 76,982,289 |
| and amortization: Solar lease equipment | _ | 8,610,496 | | 2,916,849 | | (3,402) | | (345,053) | _ | 11,178,890 |
| Capital Assets, Net | \$_ | 68,026,568 | \$_ | (2,549,819) | \$_ | (16,038) | \$ | 342,688 | \$_ | 65,803,399 |
| 2019 | | Balance, July 1, 2018 | | Additions | _ | Deletions | | Adjustments | _ | Balance, June 30, 2019 |
| Capital assets being depreciated: Solar lease equipment Less accumulated depreciation and amortization: | \$ | 75,602,983 | \$ | 1,348,000 | \$ | | \$ | (313,919) | \$ | 76,637,064 |
| Solar lease equipment | | 6,053,786 | 1 | 2,900,971 | Ţ | | | (344,261) | _ | 8,610,496 |
| Capital Assets, Net | \$_ | 69,549,197 | \$_ | (1,552,971) | \$ | JRP | \$. | 30,342 | \$_ | 68,026,568 |

13 CAPITAL ASSETS (CONTINUED)

Total Reporting Entity:

| | | Balance, | | | | | | | | Balance, |
|--|----------------|--------------|----|------------|-----|-----------|----|-------------|-----|----------------|
| 2020 | | July 1, 2019 | | Additions | _ | Deletions | | Adjustments | _ | June 30, 2020 |
| Operited and the basis of department of | | | | | | | | | | |
| Capital assets being depreciated: Solar lease equipment | \$ | 84,919,294 | \$ | 2,543,382 | \$ | (19,440) | ¢ | (2,365) | ¢ | 87,440,871 |
| Furniture and equipment | Ψ | 4,733,640 | Ψ | 2,040,002 | Ψ | (13,440) | Ψ | (2,500) | Ψ | 4,733,640 |
| Computer hardware and software | | 201,134 | | 8,873 | | (1,497) | | | | 208,510 |
| Leasehold improvements | | 192,027 | | ,,,,, | | (1,121) | | | | 192,027 |
| | - | 90,046,095 | • | 2,552,255 | - | (20,937) | • | (2,365) | - | 92,575,048 |
| Less accumulated depreciation | _ | | | | _ | | - | | _ | |
| and amortization: | | | | | | | | | | |
| Solar lease equipment | | 8,715,513 | | 3,247,332 | | (3,402) | | (345,053) | | 11,614,390 |
| Furniture and equipment | | 459,632 | | 154,407 | | | | | | 614,039 |
| Computer hardware and software | | 170,590 | | 20,536 | | (1,497) | | | | 189,629 |
| Leasehold improvements | _ | 177,320 | | 7,674 | _ | | | | _ | 184,994 |
| | _ | 9,523,055 | | 3,429,949 | _ | (4,899) | | (345,053) | | 12,603,052 |
| Capital Assets, Net | \$_ | 80,523,040 | \$ | (877,694) | \$_ | (16,038) | \$ | 342,688 | \$ | 79,971,996 |
| | | Balance, | | | Ţ | | | | | Balance, |
| 2019 | | July 1, 2018 | | Additions | | Deletions | | Adjustments | | June 30, 2019 |
| 2015 | - - | July 1, 2010 | | Additions | - | Deletions | - | Adjustments | - | Julie 30, 2015 |
| Capital assets being depreciated: | | | | | | | | | 2 | |
| Solar lease equipment | \$ | 75,602,983 | \$ | 9,630,230 | \$ | | \$ | (313,919) | \$ | 84,919,294 |
| Furniture and equipment | • | 4,084,161 | • | 649,479 | • | | _ | (0.10,010) | - | 4,733,640 |
| Computer hardware and software | | 215,458 | | 17,506 | | (31,830) | | | | 201,134 |
| Leasehold improvements | | 192,027 | | 17,500 | | (31,030) | | | | 192,027 |
| Lease note improvements | - | 80,094,629 | | 10,297,215 | - | (31,830) | _ | (313,919) | - | 90,046,095 |
| Less accumulated depreciation | | 00,00 1,020 | | 10,201,210 | A.2 | (01,000) | - | (010,010) | - | 00,010,000 |
| and amortization: | | | | | | | | | | |
| Solar lease equipment | | 6,053,786 | | 3,005,988 | | | | (344,261) | | 8,715,513 |
| Furniture and equipment | | 282,278 | | 177,354 | | | | (344,201) | | 459,632 |
| Computer hardware and software | | 174,621 | | 26,176 | | (30,207) | | | | 170,590 |
| · · | | 166,723 | | | | (30,207) | | | | |
| Leasehold improvements | _ | | 8 | 10,597 | - | (20.207) | - | (0.44.004) | - | 177,320 |
| | - 4 | 6,677,408 | ٠. | 3,220,115 | - | (30,207) | - | (344,261) | - | 9,523,055 |
| Capital Assets, Net | \$_ | 73,417,221 | \$ | 7,077,100 | \$_ | (1,623) | \$ | 30,342 | \$_ | 80,523,040 |
| Capital Assets, Net | y ` | | | | | | | | | |

14. FEDERAL GRANT PROGRAMS

The Green Bank, the primary government, recognizes grant revenue based on expenditures or fulfillment of program requirements. For the years ended June 30, 2020 and 2019, the Green Bank recognized related grant revenue of \$76,402 and \$100,779, respectively, under Department of Energy programs.

15. COMMITMENTS AND LOAN GUARANTEES

Commitments

As of June 30, 2020 and 2019, the Board of Directors designated a portion of the Green Bank's unrestricted net position to fund financial incentives for specific commercial and residential projects in the following areas:

| | Туре | | June 30, 2020 | | June 30, 2019 |
|---|-----------|----|---------------|-----|---------------|
| Primary Government | | | | | |
| Connecticut Green Bank | | | | | VIA. |
| Solar PV | Incentive | \$ | 48,652,459 | \$ | 51,517,641 |
| Multifamily/LMI Solar PV & Energy Efficiency | Loan | | 3,933,632 | 7 | 3,751,054 |
| CPACE | Loan | | 3,084,628 | | 6,093,805 |
| CPACE Lending | Loan | | 3,000,000 | | - |
| Fuel Cells | Loan | | 2,000,000 | | 13,500,000 |
| Anaerobic Digester | Loan | | 791,910 | | - |
| Hydropower | Loan | " | 329,843 | | 945,173 |
| Other Technologies | Loan | | 161,302 | | 161,302 |
| | 11/2 | | 61,953,774 | | 75,968,975 |
| CEFIA Holdings LLC | | | | | |
| Solar PPA | Loan | | 1,376,592 | | - |
| Small Business Energy Advantage | Loan | | 1,168,212 | | 1,113,352 |
| CG | | | 2,544,804 | | 1,113,352 |
| | | | | | |
| Total Commitments | | | 64,498,578 | | 77,082,327 |
| Solar PV commitments payable to CT Solar Lease 2 LL | С | | (302,574) | | (504,399) |
| <01,000 miles | | | | | |
| Total Reporting Entity | | \$ | 64,196,004 | \$_ | 76,577,928 |

These commitments are expected to be funded over the next one to six fiscal years and are contingent upon the completion of performance milestones by the recipient. All commitments are those of the primary government.

15. COMMITMENTS AND LOAN GUARANTEES (CONTINUED)

Loan Guarantees

As of June 30, 2020 and 2019, the following financial guarantees, approved by the Board of Directors, were outstanding. As of June 30, 2020, CGB has not recognized a liability or made any payments pursuant to these guarantees. Should payments be made in the future, the Green Bank will utilize standard collection efforts to recover payments made on behalf of issuers to those entitled to receive payments pursuant to the obligation guaranteed. All guarantees are those of the primary government.

| Guarantor | Issuer | Relationship of Guarantor to Issuer | Type of Obligation Guaranteed | Maximum Amount of Guaranty | Guaranty Obligation as of 6/30/2020 | Guaranty Obligation as of 6/30/2019 |
|---|---|---|--|----------------------------------|---|---|
| CGB | Owners of multifamily dwellings in Connecticut | Issuers participate in program administered by CGB and the Housing Development Fund to install energy upgrades in multifamily dwellings. | Commercial and consumer loan products with various terms | \$ 5,000,000 \$ | 4,138,968 \$ | 4,335,449 |
| CGB | CTS clar Loan I LLC | Blended unit of primary government | Nonrevolving term nate | 2,510, <i>8</i> 37 | | 1,367,686 |
| CGB | CTEnergy Efficiency Finance Company | Issuer provides Icans for the installation of energy efficiency measures in single family homes to credit challenged households to meet the goals cutlined in CGB's Comprehensive Plan. | Guarantee limited to \$600,000 on revolving credit note of \$6,000,000 | 600,000 | 600,000 | 600,000 |
| CGB | New England Hydropower Company | Issuer is the developer of hydropower project in Connecticut approved by the CGB Board of Directors. | Line of credit | 300,000 | 300,000 | 300,000 |
| CEFIA Holdings LLC | CEFIA Sciar Services Inc. | Holdings is the sole shareholder of Services and an affiliate of CGB | Promissory Note for funds received from CHFA upon their issuance of Qualified Energy Conservation Bonds (QECBs) for State Sponsored Housing Projects (SSHP) | 1,895,807 | 1,556,141 | 1,650,931 |
| CGB | Canton Hydro, LLC | Issuer is the developer of hydropower project in Connecticut approved by the CGB Board of Directors. | Unfunded guaranty not to exceed \$500,000 | 500,000 | 500,000 | 500,000 |
| CT Solar Lease 1 LLC / CT Solar Loan 1 LLC | CT Green Bank | Issuer is holder of Solar Lease notes used as collateral and a wholly owned subsidiary of CGB. | Guarantee payment of a \$5,000,000 revolving line of credit with Amalgamated Bank. | 5,000,000 | 100,000 | 5,000,000 |
| CGB | PosiGen Inc. | Issuer is the owner of residential solar projects in Connecticut approved by the CGB Board of Directors | Guarantee payment of a \$2,500,000 secured working capital line of credit with Enhanced Capital | 2,500,000 | 2,500,000 | 2,500,000 |
| | | | | \$ 18,306,644 \$ | 9,695,109 \$ | 16,254,066 |

CT Solar Loan 1 repaid it outstanding non revolving term note in full during fiscal year 2020 and the Green Bank's obligation to guaranty repayment was terminated

All commitments and guaranty obligations will be funded from current and future unrestricted cash balances

16. STATE EMPLOYEES' RETIREMENT SYSTEM

All employees of the Green Bank participate in the State Employees' Retirement System (SERS), which is administered by the State Employees' Retirement Commission. The latest actuarial study was performed on the plan as a whole, as of June 30, 2019, and does not separate information for employees of the Green Bank. Therefore, certain pension disclosures pertinent to the Green Bank otherwise required pursuant to accounting principles generally accepted in the United States of America are omitted. Based upon the 2019 valuation, the Plan, as a whole, utilized the project unit credit cost method to develop employer contributions, and included the following actuarial assumptions: 1) investment return of 6.9%; 2) price inflation of 2.5% for cost of living adjustments; 3) projected salary increases of 3.5% to 19.5%, Social Security wage base increases of 3.50% per annum; 4) payroll growth of 3.5% per annum; and 5) the RP-2014 White Collar Mortality Table. Information on the total plan funding status and progress, contribution required and trend information can be found in the State of Connecticut's Comprehensive Annual Financial Report available from the Office of the State Comptroller, 55 Elm Street, Hartford, Connecticut 06106.

Plan Description

SERS is a single-employer defined benefit public employee retirement system (PERS) established in 1939 and governed by Sections 5-152 and 5-192 of the Connecticut General Statutes. Employees are covered under one of four tiers, Tier II, Tier II, Tier III and Tier III all of which are contributory plans.

Members who joined the retirement system prior to July 1, 1984 are enrolled in Tier I. Tier I employees who retire at or after age 65 with 10 years of credited service, at or after age 55 with 25 years of service, or at age 55 with 10 years of credited service with reduced benefits are entitled to an annual retirement benefit payable monthly for life, in an amount of 2 percent of the annual average earnings (which are based on the three highest earning years of service) over \$4,800 plus 1 percent of \$4,800 for each year of credited service.

Employees hired on and after July 2, 1984 are covered under the Tier II plan. Tier II requires employee contributions of 1.5 percent of salary. Tier II employees who retire at or after age 60 with 25 years of service, or at age 62 with 10 years of service, or at age 65 with 5 years of service, are entitled to one and one-third percent of the average annual earnings plus one-half of one percent of the average annual earnings in excess of the salary breakpoint in the year of retirement for each year of credited service. Tier II employees between the ages of 55 and 62 with 10 years but less than 25 years of service may retire with reduced benefits. In addition, Tier II and Tier IIA members with at least five but less than ten years of actual state service who terminate their state employment July 2, 1997 or later and prior to attaining age 62 will be in deferred vested status and may commence receipt of normal retirement benefits on the first of the month on or following their sixty-fifth (65) birthday.

Employees hired on and after July 1, 1997 are covered under the Tier IIA plan. Tier IIA plan is essentially the existing Tier II plan with the exception that employee contributions of 3.5 percent of salary are required. Tier I members are vested after ten years of service, while Tier II and Tier IIA members may be vested after five years of service under certain conditions, and all three plans provide for death and disability benefits.

Employees hired on or after July 1, 2011 are covered under the Tier III plan. Tier III requires employee contributions of 2 percent of salary up to a \$285,000 limit after which no additional contributions will be taken on earnings above this limit. The normal retirement date will be the first of any month on or after age 63 if the employee has at least 25 years of vested service or age 65 if the employee has at least 10 but less than 25 years of vested service. Tier III members who have at least 10 years of vested service can receive early reduced retirement benefits if they retire on the first of any month on or following their 58th birthday. Tier III normal retirement benefits include annual retirement benefits for life, in the amount of one and one-third percent of the five-year average annual earnings plus one-half of one percent of the five-year average annual earnings in excess of the salary breakpoint in the year of retirement for each year of credited service plus one and five-eighths of the five-year annual average salary times years of credited service over 35 years.

Employees hired on or after July 1, 2017 are covered under the Tier IV plan. Tier IV employees are eligible for a Hybrid Plan structure that includes a combination of a defined benefit and defined contribution plan. Tier IV requires employee contributions to the defined benefit portion of the Hybrid Plan of 5 percent of salary up to \$285,000 limit after which no additional contributions will be taken on earnings above this limit. Tier IV also requires employee contributions of 1 percent of salary up to \$285,000 to the defined contribution portion of the Hybrid Plan. The normal retirement date will be the first of any month on or after age 63 if the employee has at least 25 years of vested service or age 65 if the employee has at least 10 but less than 25 years of vested service. Tier IV members who have at least 10 years of vested service can receive early reduced retirement benefits if they retire on the first of any month on or following their 58th birthday. Tier IV normal retirement benefits include annual retirement benefits for life, in the amount of one and one-third percent of the five-year average annual earnings times years of credited service with no breakpoint.

The total payroll for employees of the Green Bank covered by SERS for the years ended June 30, 2020 and 2019, was \$3,849,111 and \$4,819,830, respectively.

Contributions Made

Green Bank's contribution is determined by applying a State mandated percentage to eligible salaries and wages as follows for the years ended June 30:

| ORV | 2020 | 2019 | 2018 |
|---|-----------------|-----------------|-----------------|
| Contributions made: | | | |
| By employees | \$ 162,611 | \$ 162,555 | \$ 176,270 |
| Percent of current year covered payroll | 4.2% | 3.4% | 3.4% |
| Percent of required contributions | 100.0% | 100.0% | 100.0% |
| By Green Bank | \$ 1,381,046 | \$ 1,743,395 | \$ 1,717,420 |
| Percent of current year covered payroll | 35.9% | 39.6% | 33.5% |
| Percent of required contributions | 100.0% | 100.0% | 100.0% |

The Green Bank has contributed the required amount for each of the past three years.

The Green Bank recognizes a net pension liability for the difference between the present value of the projected benefits for the past service known as the Total Pension Liability (TPL) and the restricted resources held in trust for the payment of pension benefits, known as the Fiduciary Net Position (FNP). For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the FNP of SERS and additions to/deductions from SERS FNP have been determined on the same basis as they are reported by SERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit term. Investments are recorded at fair value.

At June 30, 2020 and 2019, the Green Bank reported a liability of \$25,174,453 and \$25,805,346, respectively, for its proportionate share of the net pension liability. The net pension liability as of June 30, 2020 was measured as of June 30, 2019, and the total pension liability used to calculate the net pension liability was determined by the actuarial valuation as of that date based on actuarial experience studies. The Green Bank's allocation of the net pension liability was based on the 2020 covered payroll multiplied by the SERS 2020 contribution rate of 60.83%. As of June 30, 2020 and 2019, the Green Bank's proportion was 0.110355% and 0.118992%, respectively.

For the years ended June 30, 2020 and 2019, the Green Bank recognized pension expense of \$3,538,363 and \$3,966,895, respectively. Pension expense is reported in the Green Bank's financial statements as part of general and administration expense. At June 30, 2020 and 2019, the Green Bank reported deferred outflows of resources and deferred inflows of resources related to pension from the following sources:

| As of June 30, 2020: | U - | Deferred Outflows of Resources | . <u>-</u> | Deferred Inflows of Resources |
|--|--------|--------------------------------------|------------|-------------------------------------|
| Difference between expected and actual experience | \$ | 1,710,397 | \$ | |
| Net difference between projected and actual earnings on pension plan investments | | | | 59,901 |
| Change of assumptions | | 1,652,492 | | |
| Change in proportion and differences between employer contributions and proportionate share of contributions | | 1,521,886 | | 1,320,436 |
| Green Bank contributions subsequent to the measurement date | _ | 1,381,046 | _ | |
| O. | \$_ | 6,265,821 | \$_ | 1,380,337 |
| As of June 30, 2019: | _ | Deferred Outflows of Resources | _ | Deferred Inflows of Resources |
| Difference between expected and actual experience | \$ | 910,835 | \$ | |
| Net difference between projected and actual earnings on pension plan investments | | | | 80,906 |
| Change of assumptions | | 2,811,782 | | |
| Change in proportion and differences between employer contributions and proportionate share of contributions | | 2,290,223 | | |
| Green Bank contributions subsequent to the measurement date | _ | 1,743,395 | _ | |
| | \$_ | 7,756,235 | \$_ | 80,906 |

The contributions subsequent to the measurement date of the net pension liability but before the end of the reporting period will be recognized as a reduction of the net pension liability in the subsequent fiscal period. The amount recognized as deferred inflows and outflows of resources, representing the net differences between expected and actual experience and changes in assumptions or other inputs, is amortized over a five-year closed period beginning in the year in which the difference occurs and will be recognized in expense as follows:

| Year 1 (2021) | \$ 1,923,216 |
|---------------|--------------|
| Year 2 (2022) | 1,246,983 |
| Year 3 (2023) | 271,668 |
| Year 4 (2024) | 89,345 |
| Year 5 (2025) | (26,774) |
| | |
| | \$3,504,438 |

Actuarial Methods and Assumption

The total pension liability in the June 30, 2019 actuarial valuation was determined based on the results of standard actuarial rollforward techniques. The key actuarial assumptions are summarized below:

Inflation 2.50%

Salary increase 3.50% -19.50% including inflation

Investment rate of return 6.90%, net of pension plan investment expense,

including inflation

Cost of living adjustment 1.95%-3.25% for certain tiers

Mortality rates were based on the RP-2014 White Collar Mortality Table projected to 2020 by scale BB at 100% for males and 95% for females is used for the period after service retirement and for dependent beneficiaries. The RP-2014 Disabled Retiree Mortality Table at 65% for males and 85% for females is used for the period after disability.

Discount Rate

The discount rate used to measure the total pension liability at June 30, 2019 was the long-term expected rate of return, 6.90%. The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the current contribution rates and that employer contributions will be made equal to the difference between the projected actuarially determined contribution and member contributions. Projected future benefit payments for all current plan members were projected through the year 2139.

Expected Rate of Return on Investments

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rate of return by the target asset allocation percentage and by adding expected inflation.

The target asset allocation and best estimate of arithmetic real rates of return for each major asset class are summarized in the following table:

| | Target | Long-term Expected Real |
|-----------------------------------|------------|----------------------------|
| Asset Class | Allocation | Rate of Return |
| Domestic Equity Fund | 20.0% | 5.6% |
| Developed Market Intl. Stock Fund | 11.0% | 6.0% |
| Emerging Market Intl. Stock Fund | 9.0% | 7.9% |
| Core Fixed Income Fund | 16.0% | 2.1% |
| Inflation Linked Bond Fund | 5.0% | 1.1% |
| Emergin Market Debt Fund | 5.0% | 2.7% |
| High Yield Bond Fund | 6.0% | 4.0% |
| Real Estate Fund | 10.0% | 4.5% |
| Provate Equity | 10.0% | 7.3% |
| Alternative Investments | 7.0% | 2.9% |
| Liquidity Fund | 1.0% | 0.4% |
| | 100.0% | 3 |

Sensitivity of Green Bank Proportionate Share of the Net Pension Liability to Changes in the Discount Rates

The following presents the Green Bank's proportionate share of the net pension liability calculated using the discount rate of 6.90%, as well as the proportionate share of the net pension liability using a 1.00% increase or decrease from the current discount rate.

| | 1% Decrease | _ | Discount Rate | _ | 1% Increase |
|----------------------------------|------------------|----|---------------|----|-------------|
| Green Bank's proportionate share | | | | | |
| of the net pension liability | \$ 30,064,996 | \$ | 25,174,453 | \$ | 21,094,955 |

17. POST EMPLOYMENT BENEFITS

In addition to the pension benefits described in Note 16, the State single-employer plan provides post-employment health care and life insurance benefits in accordance with State statutes, Sections 5-257(d) and 5-259(a), to all eligible employees who retire from the State, including employees of Connecticut Green Bank.

Plan Description

Currently, four employees meet those eligibility requirements. When employees retire, the State pays up to 100% of their health care insurance premium cost (including dependent's coverage) depending upon the plan. The State currently pays up to 20% of the cost for retiree dental insurance (including dependent's coverage) depending upon the plan. In addition, the State pays 100% of the premium cost for a portion of the employees' life insurance continued after retirement. The amount of life insurance, continued at no cost to the retiree, is determined based on the number of years of service that the retiree had with the State at time of retirement as follows: (a) if the retiree had 25 years or more of service, the amount of insurance will be one-half of the amount of insurance for which the retiree was insured immediately prior to retirement, but the reduced amount cannot be less than \$10,000; (b) if the retiree had less than 25 years of service, the amount of insurance will be the proportionate amount that such years of service is to 25, rounded to the nearest \$100. The State finances the cost of post-employment health care and life insurance benefits on a pay-as-you-go basis through an appropriation in the General Fund.

In accordance with the Revised State Employees Bargaining Agent Coalition (SEBAC) 2011 Agreement between the State of Connecticut and the SEBAC, all employees shall pay the three percent (3%) retiree health care insurance contribution for a period of ten (10) years or retirement, whichever is sooner. In addition, participants of Tier III shall be required to have fifteen (15) years of actual State service to be eligible for retirement health insurance. Deferred vested retirees who are eligible for retiree health insurance shall be required to meet the rule of seventy-five (75), which is the combination of age and actual State service equaling seventy-five (75) in order to begin receiving retiree health insurance based on applicable SEBAC agreement.

Contributions Made

Green Bank's contribution is determined by applying a State mandated percentage to eligible salaries and wages as follows for the years ended June 30:

4

| a GC | 2020 | 2019 | 2018 |
|---|---------------|-----------------|-----------------|
| Contributions made: | | | |
| By employees | \$ 109,644 | \$ 125,622 | \$ 130,954 |
| Percent of current year covered payroll | 2.8% | 2.9% | 2.6% |
| Percent of required contributions | 100.0% | 100.0% | 100.0% |
| By Green Bank | \$ 982,304 | \$ 1,164,217 | \$ 1,264,900 |
| Percent of current year covered payroll | 25.5% | 26.4% | 24.7% |
| Percent of required contributions | 100.0% | 100.0% | 100.0% |

OPEB Liabilities, OPEB Expense, Deferred Outflows of Resources, and Deferred Inflows of Resources

The Green Bank recognizes a net OPEB liability for the difference between the present value of the projected benefits for the past service known as the Total OPEB Liability (TOL) and the restricted resources held in trust for the payment of OPEB benefits, known as the Fiduciary Net Position (FNP).

For purposes of measuring the net OPEB liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the FNP and additions to/deductions from FNP have been determined on the same basis as they are reported by SERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit term. Investments are recorded at fair value.

At June 30, 2020 and 2019, the Green Bank reported a liability of \$28,484,971 and \$24,000,448, respectively, for its proportionate share of the net OPEB liability. The net OPEB liability as of June 30, 2020 was measured as of June 30, 2019, and the total OPEB liability used to calculate the net OPEB liability was determined by the actuarial valuation as of that date based on actuarial experience studies. The Green Bank's allocation of the net OPEB liability was based on the 2019 covered payroll multiplied by the OPEB 2019 contribution rate of 38.43%. As of June 30, 2020 and 2019, the Green Bank's proportion was 0.137726% and 0.139017%, respectively. FOR DISCUSSION PURPOSES ONLY



For the years ended June 30, 2020 and June 30, 2019, the Green Bank recognized OPEB expense of \$2,322,184 and \$1,783,370, respectively. OPEB expense is reported in the Green Bank's financial statements as part of salaries and benefits. At June 30, 2020 and June 30, 2019, the Green Bank reported deferred outflows of resources and deferred inflows of resources related to pension from the following sources:

| As of June 30, 2020: | Deferred Outflows of Resources | | | Deferred Inflows of Resources |
|--|--------------------------------------|--------------------------------------|-----|-------------------------------------|
| Net difference between projected and actual earnings on pension plan investments | \$ | | \$ | 6,180 |
| Change of assumptions | | 3,805,216 | | 943,409 |
| Change in proportion and differences between employer contributions and proportionate share of contributions | | 401,868 | | 667,817 |
| Difference between expected and actual experience in the total OPEB liability | | | | 718,810 |
| Green Bank contributions subsequent to the measurement date | | 982,304 | Ŋ, | |
| | \$ | 5,189,388 | \$_ | 2,336,216 |
| As of June 30, 2019: | - | Deferred Outflows of Resources | | Deferred Inflows of Resources |
| Net difference between projected and actual earnings on pension plan investments | \$ | | \$ | 10,273 |
| Change of assumptions | | | | 1,282,713 |
| Change in proportion and differences between employer contributions and proportionate share of contributions | | 567,930 | | 602,613 |
| Green Bank contributions subsequent to the measurement date | | 1,164,217 | _ | |
| | | | | |

The contributions subsequent to the measurement date of the net pension liability but before the end of the reporting period will be recognized as a reduction of the net pension liability in the subsequent fiscal period. The amount recognized as deferred outflows of resources, representing change in proportion and differences between employer contributions and proportionate share of contributions, deferred inflows of resources, representing the net difference between projected and actual earnings, and changes in plan assumptions, is amortized over a five-year closed period beginning in the year in which the difference occurs and will be recognized in expense as follows:

| Year 1 (2021) | \$ 394,635 |
|---------------|-----------------|
| Year 2 (2022) | 394,633 |
| Year 3 (2023) | 380,362 |
| Year 4 (2024) | 550,231 |
| Year 5 (2025) | 151,007 |
| | |
| | \$ 1,870,868 |

Actuarial Methods and Assumption

The total OPEB liability in the June 30, 2019 actuarial valuation was determined based on standard actuarial rollforward techniques. The key actuarial assumptions are summarized below:

Payroll growth rate 3.50%

Salary increase 3.25% to 19.50% varying by years of service and

retirement system

Discount rate 3.58% as of June 30, 2019 and 3.95% as of

June 30, 2018

Health care cost trend rates

Medical and prescription drug 6.0% graded to 4.5% over 6 years

Dental 3.0%
Part B 4.50%
Administrative Expense 3.0%

Mortality rates were based on the RP-2014 White Collar Mortality Table projected to 2020 by scale BB at 100% for males and 95% for females is used for the period after service retirement and for dependent beneficiaries. The RP-2014 Disabled Retiree Mortality Table at 65% for males and 85% for females is used for the period after disability.

Discount Rate

The discount rate is a blend of the long-term expected rate of return on OPEB Trust assets (6.9% as of June 30, 2019 and June 30, 2018) and a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rate of AA/Aa or higher (3.50% as of June 30, 2019 and 3.87% as of June 30, 2018). The final discount rate used to measure to total OPEB liability was 3.58% as of June 30, 2018 and 3.95% as of June 30, 2018. The blending is based on the sufficiency of projected assets to make projected benefit payments.

Expected Rate of Return on Investments

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighing the expected future real rate of return by the target asset allocation percentage and by adding expected inflation.

The target asset allocation and best estimate of arithmetic real rates of return for each major asset class are summarized in the following table:

| | | Long-term |
|---|------------|----------------|
| | Target | Expected Real |
| Asset Class | Allocation | Rate of Return |
| | | |
| Domestic Equity Fund | 20.0% | 5.6% |
| Developed Market International Stock Fund | 11.0% | 6.0% |
| Emerging Market International Stock Fund | 9.0% | 7.9% |
| Core Fixed Income | 16.0% | 2.1% |
| Inflation Linked Bond Fund | 5.0% | 1.1% |
| Emerging Market Debt Fund | 5.0% | 2.7% |
| High Yield Bond Fund | 6.0% | 4.0% |
| Real Estate Fund | 10.0% | 4.5% |
| Private Equity | 10.0% | 7.3% |
| Alternative Investments | 7.0% | 2.9% |
| Liquidity Fund | 1.0% | 0.4% |
| CUS | 100.0% | |

Sensitivity of Green Bank Proportionate Share of the Net OPEB Liability to Changes in the Discount Rates

The following presents the Green Bank's proportionate share of the net OPEB liability calculated using the discount rate of 3.58%, as well as the proportionate share of the net OPEB liability using a 1.00% increase or decrease from the current discount rate.

| | | Current Discount | | |
|--------------------|------------------|---------------------|----|-------------|
| | 1% Decrease | Rate | _ | 1% Increase |
| Net OPEB liability | \$ 33,152,063 \$ | 28,484,971 | \$ | 24,696,346 |

Sensitivity of Green Bank Proportionate Share of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rates

The following presents the Green Bank's proportionate share of the net OPEB liability, as well as what the Green Bank's share of the net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1 percentage point lower or 1 percentage point higher than the current healthcare cost trend rates:

| | | Healthcare Cost Trend | |
|--------------------|------------------|--------------------------|-------------|
| | 1% Decrease | Rates | 1% Increase |
| Net OPEB liability | \$ 24,418,678 \$ | 28,484,971 \$ | 33,617,389 |
| FOR DISC | | | |

18. RESTRICTED NET POSITION

Restricted net position at June 30, 2020 and 2019 consisted of the following:

| | | 2020 | | 2019 |
|---|------------|-----------------------|-----|--------------------------|
| Primary Government | | | | |
| Energy Programs: Connecticut Green Bank: Assets restricted for maintaining loan loss | | | | |
| and interest rate buydown reserves | \$ | 3,895,333 | \$ | 4,060,359 |
| Assets restricted by contractual obligations under Clean Renewable Energy Bond | | 1,855,061 | | 3,568,162 |
| Assets restricted by contractual obligations for maintaining pledge accounts for loan guarantees Assets restricted by contractual obligations for health and | | 1,209,924 | | 1,207,665 |
| safety revolving loan fund Assets restricted by contractual obligations | | 20,000 | | 20,000 |
| for Kresge Ican | | | | 1,000,000 |
| SHREC ABS 1 LLC: Assets restricted by contractual obligations for maintaining liquidity and trustee reserves | | 1,190,835 | | 1,249,920 |
| SHREC Warehouse 1 LLC: Assets restricted by contractual obligations for maintaining loan loss reserve | | 1,989,508 | | 250 |
| CT Solar Loan I LLC: | | | | |
| Assets restricted by contractual obligations for maintaining loan loss reserve | 14 | 301,795 10,462,456 | _ | 301,481 11,407,587 |
| Discretely Presented Component Units | | | | _ |
| CT Solar Lease 2 LLC: Nonexpendable: | | | | |
| Firstar Development Corporation equity interest Firstar Development Corporation invested in capital | | 14,310,055 | | 16,411,193 |
| assets net of related debt Firstar Development Corporation assets restricted for | | 31,199,058 | | 31,164,155 |
| maintaining Ioan loss reserve Firstar Development Corporation assets restricted for | | 2,939,970 | | 3,623,241 |
| operating and maintenance reserve | _ | 990,000 | _ | 990,000 |
| 012 | _ | 49,439,083 | _ | 52,188,589 |
| Energy Programs: Assets restricted for maintaining loan loss reserve | | 29,697 | | 36,598 |
| Assets restricted for operating and maintenance reserve | _ | 10,000 39,697 | _ | 10,000 46,598 |
| CEFIA Solar Services: Energy Programs: | | | | |
| Assets restricted for maintaining loan loss reserve | _ | 83,000 | _ | 83,000 |
| CT Sclar Lease 3 LLC: Nonexpendable: | | | | |
| Firstar Development Corporation equity interest Firstar Development Corporation invested in capital | | 4,390,414 | | 3,768,040 |
| assets net of related debt | _ | 10,558,588 | _ | 10,944,990 14,713,030 |
| | _ | 14,949,002 | _ | |
| | * <u>-</u> | 74,973,238 | \$_ | 78,438,804 |

19. RISK MANAGEMENT

The Green Bank is subject to normal risks associated with its operations including property damage, personal injury and employee dishonesty. All risks are managed through the purchase of commercial insurance. There have been no losses exceeding insurance coverage, and there have been no decreases in insurance coverage over the last three years.

20. RENEWABLE ENERGY CREDITS (PRIMARY GOVERNMENT)

The Green Bank owns Class 1 Renewable Energy Credits (RECs) that are generated by certain commercial renewable energy facilities for which the Green Bank provided the initial funding. Through its Residential Solar Incentive Program (RSIP), the Green Bank owns the rights to future RECs generated by facilities installed on residential properties placed in service prior to January 1, 2015. The Green Bank has entered into contracts with various third parties to sell RECs generated through vintage year 2019. For the years ended June 30, 2020 and 2019 the Green Bank generated and sold its contractual obligations of 40,000 RECs for vintage year 2019 and 30,000 RECs for vintage year 2018, respectively. Revenues generated from REC sales for the years ending June 30, 2020 and 2019 were \$631,250 and \$420,000, respectively.

As of June 30, 2020, the Green Bank has contractual obligations to sell RECs by vintage year as follows:

| Vintage | Quantity |
|---------|----------|
| | |
| 2020 | 41,000 |
| 2021 | 40,000 |
| 2022 | 34,000 |
| 2023 | 16,000 |
| 2024 | 16,000 |
| 112 | |
| | 147,000 |

On May 28, 2020, CEFIA Holdings LLC entered into an agreement with Sol Systems LLC to sell 9,659 RECs for vintage year 2019. CHOL generated \$386,360 in REC sales for the year ending June 30, 2020. As of June 30, 2020, CHOL has no additional contractual obligations to sell more RECs.

Based on historical performance, management believes that the RECs it will receive from these commercial and residential facilities will exceed its contractual obligations.

RECs trade on the New England Power Pool (NEPOOL) market. The market price of Connecticut Class 1 RECs as of June 30, 2020 ranged from \$36.50 to \$44.50. The Green Bank's inventory of RECs generated by commercial facilities as of June 30, 2020 and 2019, was \$31,826 and \$30,542, respectively. The Green Bank recorded its inventory as of June 30, 2020 at cost, which is below market price.

20. RENEWABLE ENERGY CREDITS (PRIMARY GOVERNMENT) (CONTINUED)

Public Act No.15-194 (the Act) enacted on October 1, 2015 and as amended by Public Act 16-212 created a Solar Home Energy Credit (SHREC) associated with energy generated from qualifying residential solar PV systems that have received incentives under the Green Bank's RSIP. Each SHREC represents 1 megawatt hour of electrical generation. Under the Act, the Green Bank will own these SHRECs. The Act requires these SHRECs to be purchased by the State's two investor owned public utilities from the Green Bank through a Master Purchase Agreement (MPA) which was executed on February 7, 2017. The MPA commences on January 1, 2015 and terminates the earlier of the year ending December 31, 2022 or with the deployment of solar PV systems that in the aggregate can generate 300 megawatts of electricity. During each year of the MPA's term, solar PV facilities that commence operation will be aggregated into a tranche agreement between the Green Bank and the utility companies which will be approved by the State's Public Utility Regulatory Authority (PURA) prior to its execution. Each tranche will state the price set by the Green Bank for the purchase of a SHREC generated by the PV systems within that tranche for a period of 15 years. As of June 30, 2020, the following tranche agreements have been entered into with the public utilities:

| | Date | REG | C Price | Megawatts |
|-----------|-----------|-----|---------|-----------|
| | | | | |
| Tranche 1 | 7/1/2017 | \$ | 50.00 | 47.176 |
| Tranche 2 | 7/15/2018 | | 49.00 | 59.836 |
| Tranche 3 | 6/28/2019 | | 48.00 | 39.275 |
| | | | | |
| | | | oU" | 146.287 |

SHRECs are created and certificated in the New England Power Pool Generation System (NEPOOL GIS). SHRECs are certificated by NEPOOL GIS during the fifth month subsequent to the end of the quarter in which the electricity was generated. Once certificated ownership of the SHRECs is transferred to each public utility, payment is received by the Green Bank 30 days later. The Green Bank recognizes income upon the delivery of the SHRECs to each public utility. The Green Bank is not committed to deliver a specific amount of SHRECs to each utility during the term of the MPA.

The SHRECs for T1 and T2 were assigned to SHREC ABS 1 LLC upon closing of the SHREC ABS bond and provide revenue stream for bond payments. The SHRECs for T3 were assigned from CGB to SHREC Warehouse 1 LLC upon closing of the SHREC Warehouse LOC and are held in a restricted cash account as collateral for the LOC.

21. RENEWABLE ENERGY CREDITS (PRIMARY GOVERNMENT) (CONTINUED)

For the years ending June 30, 2020 and 2019 the following SHREC sales were recognized:

| | <u>Fis</u> | cal Year en | ded June 30, 20 | 20 |
|------------|------------|-------------|-----------------|-----------|
| | | SHREC | SHREC | |
| _ | CGB | ABS 1 | Warehouse 1 | Total |
| Tranche 1 | - | 2,324,550 | - | 2,324,550 |
| Tranche 2 | - | 2,855,426 | - | 2,855,426 |
| Tranche 3 | - | - | 1,890,384 | 1,890,384 |
| Tranche 4_ | - | - | - | |
| _ | - | 5,179,976 | 1,890,384 | 7,070,360 |

| | <u>Fis</u> | cal Year e | nded June 30, 20 | <u>119</u> | |
|------------|------------|------------|------------------|------------|------|
| | | SHREC | SHREC | | |
| | CGB | ABS 1 | Warehouse 1 | Total | ON |
| Tranche 1 | 2,246,450 | | - | 2,246,450 | 2 0" |
| Tranche 2 | 2,669,667 | - | | 2,669,667 | 5 |
| Tranche 3 | - | - | - | 967V | |
| Tranche 4_ | - | - | | (O) as | _ |
| | 4,916,117 | - | - N | 4,916,117 | |

22. SUBSEQUENT EVENTS

On July 29, 2020 the Green Bank issued its inaugural offering of \$16,795,000 of Series 2020 Green Liberty Bonds, which were approved on March 25, 2020 by the Board of Directors to finance the SHREC Receivables for SHREC Tranche 3. The Green Liberty Bonds were created in honor of the 50th anniversary of Earth Day – a type of green bond whose proceeds are used to invest in projects that confront climate change in Connecticut. Modelled after the Series-E War Bonds of the 1940s, the bonds were designed to be purchased by everyday citizens through lower-dollar denominations of no more than \$1,000, enabling them to invest in green projects in Connecticut. The bonds are Climate Bond Certified and carry an S&P rating of A.

22. SUBSEQUENT EVENTS (CONTINUED)

The bonds were issued in the series below with the indicated maturity dates, principal amounts and interest rates:

| | Maturity | Principal | Interest |
|--------|---------------|---------------|----------|
| Series | (November 15) | Amount | Rate |
| Serial | 2021 | \$ 1,145,000 | 0.095% |
| Serial | 2022 | 1,148,000 | 1.080% |
| Serial | 2023 | 1,147,000 | 1.250% |
| Serial | 2024 | 1,146,000 | 1.450% |
| Serial | 2025 | 1,145,000 | 1.600% |
| Serial | 2026 | 1,144,000 | 1.900% |
| Serial | 2027 | 1,144,000 | 2.000% |
| Serial | 2028 | 1,143,000 | 2.200% |
| Serial | 2029 | 1,141,000 | 2.300% |
| Serial | 2030 | 1,138,000 | 2.400% |
| Term | 2035 | 5,354,000 | 2.900% |
| | | \$ 16,795,000 | CE |

The bonds are collateralized by revenue from quarterly sales of Tranche 3 Solar Home Renewable Energy Credits ("SHRECs") for approximately 4,800 residential solar PV systems to two Connecticut public utilities. Collections from these billings and disbursements of funds to the bondholders are managed by the trustee, Bank of New York Mellon. Interest payments are semi-annual on May 15th and November 15th. The term series bonds are subject to redemption prior to their stated maturity date.

The Green Bank received net proceeds of \$14,704,810 after funding the state supported Special Capital Reserve Fund of \$1,496,133, the cost of issuance fund of \$370,000 and paying Bond Issuance Costs of \$224,057. The proceeds will be used to invest in green energy projects and to refinance expenditures related to the Residential Solar Investment Program.

REQUIRED SUPPLEMENTARY INFORMATION



SCHEDULE OF GREEN BANK'S PROPORTIONATE SHARE OF THE NET PENSION LIABILITY CONNECTICUT GREEN BANK LAST SIX FISCAL YEARS*

| As of June 30, | 2020 | | 7 | 2019 | | 2018 | 2017 | | 2016 | | 2015 |
|--|---------------|--------|--------|---------------|-------|---------------|---------------------|---|---------------|--------------|------------|
| Green Bank's portion of the net pension liability | 0.11036% | %98 | 0 | 0.11899% | | 0.11692% | 0.10994% | | 0.09741% | | 0.09304% |
| Green Bank's proportionate share of the net pension liability | \$ 25,174,453 | | \$ 25, | \$ 25,805,346 | \$ 2, | \$ 24,636,114 | \$ \$ 25,245,439 | ↔ | \$ 16,096,113 | , | 14,899,766 |
| Green Bank's covered payroll** | \$ 4,819,830 | 330 | | 5,036,904 | \$ | 4,960,932 | \$ 4,695,647 | ↔ | 4,013,411 | ↔ | 3,121,583 |
| Green Bank's proportionate share of the net pension liability as a percentage of its covered payroll | 522.31% | 31% | | 512.33% | | 496.60% | 537.63% | | 401.06% | | 477.31% |
| Plan fiduciary net position as a percentage of the total pension liability | 36. | 36.79% | | 36.62% | | 36.25% | 31.69% | | 39.23% | | 39.54% |
| | | | | | | | | | | | |

^{*}Note: This schedule is intended to show information for ten years. Additional years' information will be displayed as it becomes available.
**Covered payroll is on a calendar year basis which coincides with the pension liability valuation date.

CONNECTICUT GREEN BANK SCHEDULE OF GREEN BANK'S PROPORTIONATE CONTRIBUTIONS TO THE STATE EMPLOYEES' RETIREMENT SYSTEM (SERS) LAST NINE FISCAL YEARS*

| | 2020 | [7 | 2019 | 2018 | | 2017 | | 2016 | | 2015 | 2014 | 14 | 2013 | | 2012* |
|--------------|------------------------|--------|-----------|-----------|--------|---|--------------------|----------|----------------|---------|------------|--------------|-----------|----------|---------|
| . | 1,381,046 \$ 1,743,395 | 7,1 | 43,395 | \$ 1,717, | 420 \$ | 1,717,420 \$ 1,713,946 \$ 1,615,681 \$ 1,974,507 \$ 1,669,961 \$ 1,125,649 \$ 601,014 | ` \$ | 615,681 | . . | 974,507 | \$ 1,66 | 9,961 8 | 1,125,649 | 9 | 1,014 |
| + | 1,381,046 | | 1,743,395 | 1,717, | 420 | 1,717,420 1,713,946 1,615,681 1,974,507 1,669,961 1,125,649 | | 615,681 | + | 974,507 | 1,66 | 9,961 | 1,125,649 | | 601,014 |
| ₩ | | | 1 | \$ | \$" | | s | | \$ | | | \$" | | ₩ | 1 |
| \$ 3,6 | 3,849,111 \$ 4,819,830 | \$ 4,8 | 19,830 | \$ 5,036, | 904 \$ | 5,036,904 \$ 4,960,932 \$ 4,695,647 \$ 4,013,411 \$ 3,121,583 \$ 2,517,190 \$ 1,541,308 | \$ | ,695,647 | \$ 4, | 013,411 | 3,12 | 1,583 \$ | 2,517,190 | \$ 1,54 | 1,308 |
| | 35.88% | | 36.17% | 34. | 34.10% | 34.55% | | 34.41% | | 49.20% | 7 | 53.50% | 44.72% | ਲ | 38.99% |

*Note: The Green Bank had no employees prior to 2012. Years 2015 through 2012 include contributions for other post employment benefits (OPEB) in addition to contributions for the SERS plan. The allocation of the total contribution between SERS and OPEB is not available for this period.

SCHEDULE OF GREEN BANK'S PROPORTIONATE SHARE OF THE NET OPEB LIABILITY CONNECTICUT GREEN BANK LAST FOUR FISCAL YEARS*

| As of June 30, | | 2020 | | 2019 | | 2018 | | 2017 |
|---|----|---------------|----|---------------|--------------|---------------|---|---------------|
| Green Bank's portion of the net OPEB liability | | 0.13773% | | 0.13902% | | 0.14327% | | 0.13805% |
| Green Bank's proportionate share of the net OPEB liability | \$ | \$ 28,484,971 | ₩. | \$ 24,000,448 | ↔ | \$ 24,875,889 | ↔ | \$ 23,803,688 |
| Green Bank's covered payroll** | 8 | 4,819,830 | ↔ | 5,036,904 | ⇔ | 4,960,932 | ↔ | 4,695,647 |
| Green Bank's proportionate share of the net OPEB liability as a percentage of its covered payroll | | 591.00% | | 476.49% | | 501.44% | | 506.93% |
| Plan fiduciary net position as a percentage of the total OPEB liability | | 5.47% | R | 4.69% | | 3.03% | | 1.94% |
| | | | | | | | | |

*Note: This schedule is intended to show information for ten years. Additional years' information will be displayed as it becomes available. **Covered payroll is on a calendar year basis which coincides with the pension liability valuation date.

CONNECTICUT GREEN BANK SCHEDULE OF GREEN BANK'S PROPORTIONATE CONTRIBUTIONS TO THE STATE EMPLOYEES' OTHER POST EMPLOYMENT BENEFIT PLAN LAST FIVE FISCAL YEARS*

| | _ | 2020 | _ | 2019 | | 2018 | | 2017 | _ | 2016 |
|--|-----|-----------|------------|-----------|-----|-----------|-----|-----------|-----|-----------|
| Contractually required contribution | \$ | 982,304 | \$ | 1,164,217 | \$ | 1,264,900 | \$ | 956,207 | \$ | 840,178 |
| Contributions in relation to the contractually required contribution | _ | 982,304 | . <u>-</u> | 1,164,217 | | 1,264,900 | | 956,207 | | 840,178 |
| Contribution deficiency (excess) | \$_ | | \$_ | - | \$_ | - | \$_ | _ | \$_ | |
| Green Bank's covered payroll | \$ | 3,849,111 | \$ | 4,819,830 | \$ | 5,036,904 | \$ | 4,960,932 | \$ | 4,695,647 |
| Contributions as a percentage of covered payroll | | 25.52% | | 24.15% | | 25.11% | | 19.27% | | 17.89% |

^{*}Note: This schedule is intended to show information for ten years. Additional years' information will be displayed as it becomes available.

STATISTICAL SECTION

(unaudited)



CONNECTICUT GREEN BANK STATISTICAL SECTION INTRODUCTION

This part of the Connecticut Green Bank's (CGB's) comprehensive annual financial report presents detailed information as a context for understanding what the information about the primary government and the discretely presented component units in the financial statements, note disclosures, and required supplementary information says about the benefits of CGB's investments.

FINANCIAL STATISTICS

| These schedules contain trend information to help the reader understand how CGB's financial performance and well-being have changed over time. Revenue Capacity 82-83 These schedules contain information to help the reader assess CGB's most significant local revenue sources. Debt Capacity 84 |
|---|
| financial performance and well-being have changed over time. Revenue Capacity These schedules contain information to help the reader assess CGB's most significant local revenue sources. |
| These schedules contain information to help the reader assess CGB's most significant local revenue sources. |
| significant local revenue sources. |
| Debt Capacity 84 |
| |
| These schedules present information to help the reader assess the affordability of the government's current level of outstanding debt and the CGB's ability to issue additional debt in the future. |
| Demographic and Economic Information 85-86 |
| These schedules offer demographic and economic indicators to help the reader understand the environment within which CGB's financial activities take place. |
| Operating Information 87-89 |

These schedules contain service and infrastructure data to help the reader understand how the information in CGB's financial report relates to the services CGB provides and the activities it performs.

| | | | | | | Vear Ended line 30 | | | | |
|---|----------------|--|--|--|---|---|--|---|---|-------------------------------------|
| | 1 1 | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Primary Government Notifive Miner In capital assets | ₩ | 2,893,556 \$ | 2,511,829 \$ | 963,469 | \$ 198,486 \$ | 248,752 | \$ 263,839 \$ | 289,932 \$ | 362,505 \$ | 91,329 |
| Restricted Net Position. Nonexpendable Restricted - energy programs Unrestricted | I | 10,462,456 53,287,502 66,643,514 | 11,407,587 51,057,268 64,976,684 | 95,745 19,205,056 59,206,810 79,471,080 | 91,121 16,798,606 1) 79,830,841 96,919,054 | 79,179 5,249,983 116,273,628 1 121,851,542 | 41,845 4,299,005 104,840,938 109,445,627 | 8,379 4,595,715 97,747,386 102,641,412 | 1,000 5,036,656 93,717,230 99,117,391 | 176,974 80,920,002 81,188,305 |
| CT Solar Lease 2 LLC Net investment in capital assets | | 1,327,817 | 1,330,432 | 1,347,368 | 1,356,697 | 485,108 | 278,307 | 35,390 | | |
| Newticted Net Fostilon. Nonexpendable Restricted - energy programs Unrestricted (deficit) | | 57,242,757 39,697 (21,704,523) 36,905,748 | 60,294,483 46,598 (22,648,568) 39,022,945 | 62,208,324 45,113 (22,247,455) 41,353,350 | 64,596,932 45,028 (25,125,419) 40,873,238 | 66,364,332 3 45,000 3) (32,934,704) 3 33,959,736 | 36,508,164 45,000 (21,703,932) 15,127,539 | 7,617,084 45,000 (4,105,401) 3,592,073 | 4,691,594 45,000 (1,853,380) 2,883,214 | 1 |
| CEFIA Solar Services, Inc. Invested in capital assets, net of related debt Restricted Net Position: | | 353,521 | | 1 | | | | ł | ł | 1 |
| Nonexpendable Restricted - energy programs Unrestricted (deficit) | | 83,000 20,918 457,439 | 83,000 432,139 515,139 | 559,958 559,958 | 486,565 486,565 | 346,379 | 224,754 | 109,223 | 0 0 0 | |
| CT Solar Lease 3 LLC Net investment in capital assets Restricted Net Position: Nonexpendable | | 116,856 | 121,106 | 111,852 | 2 | | | | | |
| Restricted - energy programs Unrestricted (deficit) | 1 1 | (3,099,959) | (3,527,528) | (4,076,898) 9,404,892 | | | | | | |
| Eliminations | I | (40,241,055) | (40,583,744) | (39,454,629) | (31,562,901) | (28,795,323) | (15,630,676) | (5,549,471) | (3,500,100) | |
| Total Net Position | ∽ ∥ | 76,741,704 \$ | 76,282,116 \$ | 91,334,651 | \$ 106,715,956 \$ | | 127,362,334 \$ 109,167,244 \$ | 100,793,237 \$ | 98,500,605 \$ 81,188,305 | 81,188,305 |

^{*}Connectiout Green Bank was established by the Connectiout General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

(1) Restated

| | | | | Yea | ar Ended June | 30, | | | |
|---|-----------------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------------------|
| | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Primary Government | | | | | | | | | |
| Operating Revenues | \$ 49,399,727 | \$ <u>43,837,012</u> | \$ <u>47,772,908</u> \$ | 46,961,726 | 72,146,387 | \$ <u>74,663,780</u> \$ | <u>53,336,236</u> \$ | 43, 926,668 \$ | 40,342,691 |
| Operating Expenses | | | | | | | | | |
| Cost of goods sold - energy systems | 4,371, 05 9 | 4,601,431 | 12,979,629 | 11,333, 0 34 | 28,826,974 | 22,526,874 | 2,794,270 | | |
| Provision for loan loss | 4,962,343 | 2,908,974 | 361,711 | 956,489 | 1,021,826 | 563,825 | 1,310,933 | | |
| Grants and program expenditures Program administration expenditures | 17,313,711 12,333,7 6 4 | 15,598,111 13,586,373 | 18,932,920 12,878, 50 8 | 18,128, 0 22 13,228,749 | 11,539,070 13,964,097 | 10,686,366 10,833,325 | 13,798,012 9,150,664 | 17,767,885 5,866,580 | 27,977,688 3,144,667 |
| General and administrative expenses | 6,701,666 | 5,484,608 | 5,759,801 | 5,228,711 | 4,445,648 | 2,984,178 | 2,408,715 | 1,811,227 | 1,387,854 |
| Total Operating Expenses | 45,682,543 | 42,179,497 | 50,912,569 | 48,875,005 | 59,797,615 | 47,594,568 | 29,462,594 | 25,445,692 | 32,510,209 |
| Operating Income (Loss) | 3,717,184 | 1,657,515 | (3,139,661) | (1,913,279) | 12,348,772 | 27,069,212 | 23,873,642 | 18,480,976 | 7,832,482 |
| Nonoperating Revenue (Expenses) | | | | | | | | | |
| Interest income - short-term investments | 33 6,46 3 | 400, 407 | 311,73 0 | 189,237 | 92,536 | 83,761 | 98,383 | 103,928 | 140,786 |
| Interest income | 66,327 | 64,544 | 62,981 | 61,455 | 60,127 | 58,511 | 57,407 | | |
| Interest expense - long-term debt | (2,327,387) | (772,224) | (172,817) | (228,502) | (61,796) | (26, 985) | | | |
| Interest expense - component units Debt issuance costs | (18,800) | (429) (1,738,743) | | | | | | | |
| Distributions to former members | (10,000) | (1,000) | | | | | | | |
| Realized gain (loss) on investments | (106,957) | (104,466) | (510,207) | (93,974) | (33,723) | (1,180,285) | (350,000) | (1,034,605) | |
| Unrealized gain (loss) on investments | | | | (999,998) | | | 349,999 | 378,059 | 434,702 |
| Net Nonoperating Revenues (Expenses) | (2,050,354) | (2,151,911) | (308,313) | (1,071,782) | 57,144 | (1,064,998) | 155,789 | (552,618) | 575,488 |
| Income (Loss) Before Transfers, Capital Contributions and Member (Distributions) | 1,666,830 | (494,396) | (3,447,974) | (2,985,061) | 12,405,916 | 26,004,214 | 24,029,431 | 17,928,358 | 8,407,970 |
| Capital Contributions Transfers to State of Connecticut | | (14,000,000) | _(14,000,000) | | | (19,200,000) | (6,200,000) | 1,000 | 4 |
| Change in Net Position | \$ 1,666,830 \$ | £ (14.494.398) | \$ (17,447,974) \$ | (2 985 081) \$ | 12 405 916 | \$ 6804 214 \$ | 17 829 431 9 | 17,929,358 | 8,407,970 |
| Change in Net Position *Connecticut Green Bank was established by the | e Connecticut Gener | ral Assembly on | July 1, 2011. Acc | ordingly, financial | results are only | r shown beginning | with Fiscal Year | 2012. | |
| | | | | | | | | | |

^{*}Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

| Scient Contributions Section Secti | | | 2042 | 2042 | | ar Ended June 30 | | 204 | 2042 | |
|--|--------------------------------------|-------------------|--------------------------|------------------------------|-----------------------|------------------|---------------|------------|--------------|------|
| rating Revenues | Solar Lease 2 LLC | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| rating Expenses ogram administration expenditures ogram administration expenditures 283.880 274.833 288.727 3.884.129 3.078.633 1.201.123 600.186 Interior administrative expenses 283.880 274.833 288.727 3.824.129 3.05.217 124.746 127.811 883.480 Total Operating Expenses 3.853.785 3.801.128 4.371.501 4.505.041 3.383.800 1.325.571 727.697 883.480 rating income (Loss) 187.209 139.289 (534.038) (454.158) (96.725) (1.115.002) (725.927) (883.480) rest on stort-term investments 4.454 18.74 21.904 17.015 27.777 9.20 8.042 rest on stort-term investments (11.13.881) (1.281.591) (1.281.282) (1.054.88) (1.7591.70) (150.871) (150.871) (150.871) rest on sport-term investments (1.13.58) (1.281.591) (1.281.592) (1.281.892) (1.054.894) (1.059.194) (1.05 | SGGI ESGGEZ LES | | | | | | | | | |
| ogram administration expenditures 3,599,005 3,862,233 4,083,177 3,384,129 3,078,633 1,201,123 600,186 Internal and administrative expenses 283,868 27,483 28,872 62,019 23,052,17 124,786 1,27,611 683,460 Internal and administrative expenses 3,883,786 3,801,196 4,371,901 4,000,011 3,383,800 1,261,871 727,697 653,460 Internal and administrative expenses 3,883,786 3,801,196 (43,71,901 4,000,011 3,383,800 1,126,871 727,697 653,460 Internal and administrative expenses 3,883,786 1,872,000 (13,801,010) (13,801,010) (13,801,010) (13,801,010) (14,801,010) | erating Revenues | \$\$,040,994_\$ | 3,940,415 | 3,837,8 65 \$_ | 3, 65 9,883_\$ | 2,416,597 \$_ | 210,869_\$_ | 1,770 \$ | \$ | |
| ogram administration expenditures 3,599,005 3,862,233 4,083,177 3,384,129 3,078,633 1,201,123 600,186 Internal and administrative expenses 283,868 27,483 28,872 62,019 23,052,17 124,786 1,27,611 683,460 Internal and administrative expenses 3,883,786 3,801,196 4,371,901 4,000,011 3,383,800 1,261,871 727,697 653,460 Internal and administrative expenses 3,883,786 3,801,196 (43,71,901 4,000,011 3,383,800 1,126,871 727,697 653,460 Internal and administrative expenses 3,883,786 1,872,000 (13,801,010) (13,801,010) (13,801,010) (13,801,010) (14,801,010) | erating Expenses | | | | | | | | | |
| Total Operating Expenses 3,853,785 3,801,128 4,371,901 4,508,041 3,383,850 1,328,671 727,697 853,420 retaining income (Loss) 167,209 139,289 (534,036) (845,156) (967,253) (1,115,002) (726,927) (853,480) repertaining flowering (Expenses) areas on short-term investments (1,143,681) (1,281,991) (1,281,262) (1,084,848) (729,170) (150,671) (57,407) (131,682) retailized gain (loss) on investments (1,143,681) (1,281,991) (1,281,262) (1,084,848) (729,170) (150,671) (57,407) (131,682) retailized gain (loss) on investments (1,143,681) (1, | rogram administration expenditures | 3,599,905 | 3,526,293 | 4,083,177 | 3,884,129 | 3,078,633 | 1,201,123 | 600,186 | | |
| rating income (Loss) 167,209 139,289 (334,039) (645,156) (967,253) (1,115,002) (725,527) (835,480) coperating Revenue (Expenses) arest on short-term investments (1,143,661) (1,281,591) (1,281,282) (1,054,846) (229,170) (1,054,847) (280,737) (45,708) (45,145) | Seneral and administrative expenses | | | | | | | | | |
| reperating Revenue (Expenses) arest on short-term investments (1.143,681) (1.281,981) (1.281,982) (1.054,848) (729,170) (150,871) (57,407) asized again (loss) on investments (1.143,681) (1.281,981) (1.281,982) (1.054,848) (729,170) (150,871) (57,407) asized again (loss) on investments (81,156) (1.1681,133) (894,702) (1.281,982) (1.086,987) (1.087,991) (680,073) beth Nonoperating Revenues (Expenses) (1.793,496) (1.599,552) (547,003) 49,754 (1.889,194) (801,737) (48,769) | Total Operating Expenses | 3,853,785 | 3,801,126 | 4,371,901 | 4,505,041 | 3,383,850 | 1,325,871 | 727,697 | 853,480 | |
| arrest on short-term investments | erating Income (Loss) | 187,209 | 139,289 | (534,036) | (845,158) | (967,253) | (1,115,002) | (725, 927) | (853, 480) | |
| arrest on short-term investments | noperating Revenue (Expenses) | | | | | | | | | |
| Salized gain (loss) on investments | iterest on short-term investments | 4,454 | 16,741 | 21,904 | 17,615 | 27,777 | 9,207 | 8,642 | | |
| realized gain (loss) on investments (841,133) (994,702) 712,355 1,086,987 (997,791) (880,073) New (Loss) Before Transfers, Capital Intributions and Member (Distributions) (1,608,287) (1,820,283) (1,081,039) (785,404) (2,636,437) (1,916,739) (774,692) (853,480) Ittal Contributions (510,910) (510,142) (509,564) (438,452) (301,548) (104,579) (12,584) Inge in Net Position \$ (2,117,197) \$ (2,330,400) \$ (1,475,846) \$ (8,913,502) \$ (1,832,197) \$ (1,1535,465) \$ 708,859 \$ 2,663,214 \$ Innecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012. | terest expense | (1,143,661) | (1,281,591) | (1,281,262) | (1,054,848) | (729,170) | (150,871) | (57, 407) | | |
| Net Nonoperating Revenues (Expenses) (1,793.496) (1,599.502) (847.003) 49.764 (1,689.184) (801,737) (48.765) | | | | | | | | | | |
| ane (Loss) Before Transfers, Capital Intributions and Member (Distributions) (1,606,287) (1,820,283) (1,081,039) (795,404) (2,636,437) (1,916,739) (774,692) (853,480) (143 Contributions (510,910) (510,142) (509,864) (436,482) (301,848) (104,579) (12,584) (104, | | | | | | | | /40 775 | | |
| ital Contributions (1,608,287) (1,620,263) (1,081,039) (795,404) (2,636,437) (1,916,739) (774,692) (853,480) ital Contributions (510,910) (510,142) (509,564) (436,452) (301,548) (101,579) (12,584) inge in Net Position \$ (2,117,197) \$ (2,330,405) \$ (1,475,848) \$ (6,913,502) \$ (18,832,197) \$ (11,555,405) \$ (708,859) \$ (2,883,214) \$ Innecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Flocal Year 2012. | Net Nonoperating Revenues (Expenses) | (1,793,496) | (1,959,552) | (547,003) | 49,754 | (1,669,184) | (801,737) | (48,765) | | |
| inge in Net Position \$ (510,910) (510,142) (509,584) (438,452) (301,548) (104,579) (12,584) Inge in Net Position \$ (2,117,197) \$ (2,330,405) \$ (1,475,846) \$ (6,913,502) \$ (18,832,197) \$ (11,635,465) \$ (708,859) \$ (2,883,214) \$ (1,475,846) | | (1,606,287) | (1,820,263) | (1,081,039) | (795,404) | (2,636,437) | (1,916,739) | (774,692) | (853,480) | |
| inge in Net Position \$ (510,910) (510,142) (509,584) (438,452) (301,548) (104,579) (12,584) Inge in Net Position \$ (2,117,197) \$ (2,330,405) \$ (1,475,846) \$ (6,913,502) \$ (18,832,197) \$ (11,635,465) \$ (708,859) \$ (2,883,214) \$ (1,475,846) | nital Contributions | | | 114.755 | 8.145.358 | 21.770.182 | 13.556.783 | 1.496.135 | 3.736.694 | |
| nnecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012. | tributions to Members | (510,910) | (510,142) | | | | | | | |
| nnecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012. | unge in Net Preition | \$ (9.117.197) \$ | (9.33 0.405). \$ | \$ (1.475.848) \$ | 6 91 3 5 0 9 | 18839197 \$ | 11 535 465 \$ | 708.850 \$ | 9 883 914 \$ | |
| necticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012. | inge in Nettr Galdon | Ψ(2,111,131) Ψ | (2,330,400) | <u>(1,410,040)</u> Ψ_ | 0,313,002 | | | 100,003 W | | |
| FOR DISCUSSION | | | | | | | ح | £5 | Oly | |
| FOR DISCUS | | | | | . 6 | UR | 05 | ES | Oth | |
| FOR DIS | | | .6 | 510 | N P | URI | 05 | ES | Oth | |
| | | .60 | JUS | 510 | N P | UR | 05 | ES | Oly | |
| | | disc | JUS | 510 | N P | UR | 05 | ES | Oth | |
| | FOR | 3150 | JUS S | 310 | N P | UR | 05 | ES | Oly | |

^{*}Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

| | | | | Year I | Ended June 30, | | | | |
|--|------------------------|-------------|------------|------------|----------------|------------|------------|----------------|------|
| | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| CEFIA Solar Services, Inc. | | | | | | | | | |
| Operating Revenues | \$\$_\$ | 176,938_\$ | 132,458_\$ | 129,227 \$ | 126,075 \$ | 123,000 \$ | 120,000 \$ | \$ | |
| Operating Expenses | | | | | | | | | |
| Grants and program expenditures | 321,005 | 223,512 | 61,520 | | | | | | |
| General and administrative expenses | 4,552 | 4,600 | 4,601 | 4,998 | 4,750 | 8,450 | 10,877 | | |
| Total Operating Expenses | 325,557 | 228,112 | 66,121 | 4,998 | 4,750 | 8,450 | 10,877 | - | - |
| | | | | | | | | | |
| Operating Income (Loss) | (67,312) | (51,174) | 66,337 | 124,229 | 121,325 | 114,550 | 109,123 | | - |
| Nonoperating Revenue (Expenses) | | | | | | | | | |
| Interest on short-term investments | 133 | 585 | 4.827 | 16,446 | 300 | 981 | | | |
| Interest income | 49.469 | 48,129 | 46.958 | 31,437 | | | | | |
| Interest expense long-term debt | (39,990) | (42, 359) | (44,729) | (31,926) | | | | | |
| Net Nonoperating Revenues (Expenses) | 9,612 | 6,355 | 7,056 | 15,957 | 300 | 981 | - | - | - |
| | | | | | | | | | |
| Income (Loss) Before Transfers, Capital | | | | | | | | | |
| Contributions and Member (Distributions) | (57,700) | (44,819) | 73,393 | 140,186 | 121,625 | 115,531 | 109,123 | - | - |
| | | | | | | | | | |
| Capital Contributions | | | | | | | | 100 | |
| | | | | | | | | | |
| Change in Net Position | \$ <u>(57,700)</u> \$_ | (44,819) \$ | 73,393 \$ | 140,186 \$ | 121,625 \$ | 115,531 \$ | 109,123 \$ | 1 <u>00</u> \$ | - |

^{*}Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

| | | | | Yea | ar Ended June | 30, | | | |
|--|---------------|-----------------|--------------|------|----------------|-------|------|------|------|
| | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| CT Solar Lease 3 LLC | | | | | | | | -07/ | |
| Operating Revenues | \$ 924,753 \$ | 776,695 \$ | 343,814 \$ | \$ | \rightarrow | \$\$ | \$ | * | |
| Operating Expenses | | | | | | | | | |
| Grants and program expenditures | 551,135 | 5 13,289 | 354,566 | | | | | | |
| General and administrative expenses | 115,190 | 94,125 | 37,332 | | | | | | |
| Total Operating Expenses | 666,325 | 607,414 | 391,898 | | | | | | |
| | | | | | | | | | |
| Operating Income (Loss) | 258,428 | 169,281 | (48,084) | | | | | - | _ |
| -F | | - | ,,,,,, | | | | | | |
| Nonoperating Revenue (Expenses) | | | | | | | | | |
| Interest on short-term investments | 478 | 261 | 15 | | | | | | |
| Net Nonoperating Revenues | 478 | 261 | 15 | - | 1 1 7 . | | - | | |
| | | | | | | | | | |
| Income (Loss) Before Transfers, Capital | | | | | | | | | |
| Contributions and Member (Distributions) | 258,906 | 169,542 | (48,069) | | _ | _ | _ | _ | _ |
| | | | 1 | | | | | | |
| Capital Contributions | 452,554 | 2,855,179 | 9,483,568 | | | | | | |
| Distributions to Members | (86,494) | (78,521) | (30,607) | | | | | | |
| | ,34,101) | 1, 2,02.19 | ,,,,,, | | | | | | |
| Change in Net Position | \$ 624,966 \$ | 2,946,200 \$ | 9,404,892 \$ | - \$ | _ | s - s | - \$ | - \$ | _ |
| | | | | * | | ·* | * | * | |

^{*}Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

CONNECTICUT GREEN BANK
OPERATING REVENUE BY SOURCE
Last Nine Fiscal Years Ending June 30,*

| | | Utility Remittances | ttances | RGGI Auction Proceeds | Proceeds | Grant Revenue | en ne | Sales of Energy Equipment | nergy | Sales of Renewable Energy Certificates | newable tificates | Other Revenues | ennes |
|--------------------------|-----------------|---------------------|-----------|-----------------------|-----------|---------------|---------------------|------------------------------|-----------|---|----------------------|----------------|---------|
| | Total Operating | | % of | | % of | | % of | | % of | | % of | | % of |
| Drimony Constructor | Revenues | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual |
| | \$ 43,470,393 | \$ 24,854,150 | 57.2 % \$ | 4,581,628 | 10.5 % \$ | 76,402 | 0.2 % \$ | 4,373,423 | 10.1 % \$ | 8,361,721 | 19.2 % \$ | 1,223,069 | 2.8% |
| 2019 | 39,929,257 | 26,094,682 | 65.4 % | 2,130,255 | 5.3 % | 200,779 | 0.5 % | 4,833,647 | 12.1 % | 5,348,537 | 13.4 % | 1,321,357 | 3.3 % |
| 2018 | 44,481,207 | 25,943,182 | 58.3 % | 1,250,260 | 2.8% | 81,952 | 0.2 % | 13,559,517 | 30.5 % | 2,827,682 | 6.4 % | 818,614 | 1.8% |
| 2017 | 44,040,016 | 26,404,349 | 80.09 | 2,392,647 | 5.4% | 98,486 | 0.2 % | 12,689,540 | 28.8 % | 2,214,000 | 5.0 % | 240,994 | 0.5 % |
| 2016 | 69,250,883 | 26,605,084 | 38.4% | 6,481,562 | 9.4% | 589,917 | % 6:0 | 32,767,009 | 47.3 % | 2,419,990 | 3.5 % | 387,321 | %9.0 |
| 2015 | 72,038,471 | 27,233,987 | 37.8% | 16,583,545 | 23.0 % | 192,274 | 0.3 % | 25,912,414 | 36.0 % | 1,474,488 | 2.0 % | 641,763 | %6.0 |
| 2014 | 52,301,283 | 27,779,345 | 53.1 % | 20,074,668 | 38.4 % | 321,642 | %9.0 | 3,548,840 | 8.8% | 376,559 | 0.7 % | 200,229 | 0.4% |
| 2013 | 43,343,093 | 27,621,409 | 63.7 % | 4,744,657 | 10.9% | 10,035,250 | 23.2 % | - | % - | 147,000 | 0.3 % | 794,777 | 1.8% |
| 2012 | 39,753,685 | 27,025,088 | 68.0 % | 2,052,748 | 5.2 % | 10,435,251 | 26.2 % | - | %- | 142,738 | 0.4 % | 97,860 | 0.2 % |
| CT Solar Lease 211 C | | | | | | | | | | | | | |
| | \$ 4,040,672 | ; | %- | 1 | \$ %- | - | \$ %- | | \$ %- | 746,721 | 18.5 % \$ | 3,293,951 | 81.5 % |
| | 3,940,416 | | | • | | | | 1 | 3 | | % _ | | ල |
| 2018 | 3,836,228 | 1 | %- | - | %- | | %- | 1 | %' | 700,015 | 18.2 % | 3,136,213 | 81.8% |
| 2017 | 3,659,883 | ı | %- | | %- | 1 | %- | | %- | 356,647 | 9.7 % | 3,303,236 | 90.3 % |
| 2016 | 2,416,597 | 1 | %- | 1 | %- | ł | %- | | % - | 233,793 | 9.7 % | 2,182,804 | 90.3 % |
| 2015 | 210,869 | 1 | %- | - | %- | | %- | | %- | 1 | % - | 210,869 | 100.0% |
| 2014 | 1,770 | 1 | %- | - | %- | - | % - | - | % - | 1 | % - | 1,770 | 100.0% |
| 2013 | ; | 1 | %- | - | %- | - | % - | 1 | % - | 1 | % - | 1 | % - |
| 2012 | 1 | 1 | % - | + | %- | F | %- | 1 | % - | 1 | | 1 | %- |
| CEFIA Solar Services Inc | | | | | | 7 | | | | | | | |
| | \$ 258.246 8 | ; | \$ %- | ! | \$ %- | | \$ %- | ; | \$ %- | 5,483 | 2.1 % \$ | 252,763 | 97.9% |
| | 176,938 | | | - | %- | ; | | 1 | | | * | | 100.0% |
| 2018 | 132,458 | I | %- | 1 | %' | I | %- | 1 | % - | 1 | % - | 132,458 | 100.0% |
| 2017 | 129,227 | 1 | % - | | %- | I | % - | 1 | % - | 1 | % - | 129,227 | 100.0% |
| 2016 | 126,075 | 1 | % - | | % - | 1 | % - | 1 | % - | 1 | % - | 126,075 | 100.0% |
| 2015 | 123,000 | 1 | %- | - | % - | 1 | %- | 1 | % - | 1 | % - | 123,000 | 100.0% |
| 2014 | 120,000 | 1 | %- | 1 | % - | 1 | % - | 1 | % - | 1 | % - | 120,000 | 100.0 % |
| 2013 | ; | 1 | % - | 1 | % - | 1 | %- | 1 | % - | 1 | % - | 1 | % - |
| 2012 | l | I | %- | I | %- | I | %- | 1 | %- | 1 | % - | 1 | %- |
| CT Solar Lease 3 LLC | | | | | | | | | | | | | |
| _ | \$ 924,752 | | \$ %- | 1 | \$ %- | I | \$ %- | ! | \$ %- | 534,086 | 57.8 % \$ | 390,666 | 42.2 % |
| 2019 | 776,695 | 1 | % - | 1 | % - | 1 | %- | 1 | % - | 402,789 | 51.9 % | 373,906 | ~ |
| 2018 | 343,814 | 1 | % - | 1 | % - | 1 | % - | 1 | % - | 131,823 | 38.3 % | 211,991 | 61.7% |
| 2017 | 1 | 1 | %- | 1 | % - | 1 | % - | 1 | % - | 1 | % - | 1 | % |
| 2016 | 1 | 1 | %- | 1 | % - | 1 | % - | 1 | % - | 1 | % - | 1 | % |
| 2015 | ; | 1 | % - | ; | % - | 1 | % - | 1 | % - | 1 | % - | 1 | % |
| 2014 | ; | 1 | % - | 1 | % - | ŀ | % - | ; | %- | 1 | % - | 1 | % |
| 2013 | ; | 1 | % - | 1 | %- | 1 | %- | 1 | % - | 1 | % - | 1 | % - |
| 2012 | 1 | I | %- | 1 | %- | I | % - | 1 | %- | I | % - | 1 | %- |
| | | | | | | | | | | | | | |

| | | Utility Remittances | ittances | RGGI Auction Proceeds | Proceeds | Grant Revenue | venue | Sales of Energy Equipment | nergy ient | Sales of Renewable Energy Certificates | newable tificates | Other Revenues | ennes |
|------------------------|-----------------|---------------------|----------|-----------------------|-------------------|---------------|---------|------------------------------|---------------|---|----------------------|----------------|--------|
| | Total Operating | | % of | | % of | | % of | | % of | | % of | | % of |
| | Revenues | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual | Revenue | Annual |
| Eliminations | | | | | | | | | | | | | |
| 2020 | \$ (1,476,079) | \$ | %- | | \$ % - | 1 | % | \$ (367,029) | 24.9 % \$ | 1 | % - | \$ (1,109,050) | 75.1 % |
| 2019 | (3,100,440) | 1 | % - | 1 | % - | 1 | % | (2,038,310) | 65.7 % | 1 | % - | (1,062,130) | 34.3 % |
| 2018 | (11,912,052) | 1 | % - | 1 | % - | * | % | (10,777,111) | 90.5 % | 1 | % - | (1,134,941) | 9.5 % |
| 2017 | (13,862,578) | 1 | % - | 1 | % - | 1 | % | (12,689,540) | 91.5 % | 1 | % - | (1,173,038) | 8.5 % |
| 2016 | (34,005,320) | 1 | % - | 1 | % - | 1 | % | (32,767,009) | 96.4 % | 1 | % - | (1,238,311) | 3.6 % |
| 2015 | (26,077,923) | ; | % - | 1 | %- | 1 | %- | (25,895,727) | 99.3 % | ! | % - | (182,196) | 0.7 % |
| 2014 | (3,668,840) | ; | % - | 1 | % - | 1 | %- | (3,548,840) | % £'96 | ! | % - | (120,000) | 3.3 % |
| 2013 | 1 | ; | % - | ; | % - | - | %- | - | %- | 1 | % - | I | % - |
| 2012 | 1 | 1 | % - | 1 | %- | - | %- | - | % - | 1 | % - | 1 | %- |
| | | | | | | | | | | | | | |
| Total Reporting Entity | | | | | | | | | • | | | | |
| 2020 | \$ 47,217,984 | \$ 24,854,150 | 52.6 % | \$ 4,581,628 | 8 % 2.6 | 5 76,402 | 0.2 % 3 | \$ 4,006,394 | 8.5 % \$ | 9,648,011 | 20.4 % | \$ 4,051,399 | 8.6% |
| 2019 | 41,722,866 | 26,094,682 | 62.5 % | 2,130,255 | 5.1% | 200,779 | 0.5 % | 2,795,337 | 6.7 % | 6,489,479 | 15.6 % | 4,012,334 | 9.6% |
| 2018 | 36,881,655 | 25,943,182 | 70.3 % | 1,250,260 | 3.4 % | 81,952 | 0.2 % | 2,782,406 | 7.5 % | 3,659,520 | % 6.6 | 3,164,335 | 8.6% |
| 2017 | 33,966,548 | 26,404,349 | 77.7 % | 2,392,647 | 7.0% | 98,486 | 0.3 % | | %- | 2,570,647 | 7.6 % | 2,500,419 | 7.4% |
| 2016 | 37,788,235 | 26,605,084 | 70.4 % | 6,481,562 | 17.2 % | 589,917 | 1.6% | | % - | 2,653,783 | 7.0 % | 1,457,889 | 3.9% |
| 2015 | 46,294,417 | 27,233,987 | 58.8% | 16,583,545 | 35.8 % | 192,274 | 0.4% | 16,687 | % 0.0 | 1,474,488 | 3.2 % | 793,436 | 1.7% |
| 2014 | 48,754,213 | 27,779,345 | 57.0 % | 20,074,668 | 41.2 % | 321,642 | 0.7% | : | %- | 376,559 | 0.8 % | 201,999 | 0.4% |
| 2013 | 43,343,093 | 27,621,409 | 63.7 % | 4,744,657 | 10.9% | 10,035,250 | 23.2 % | 1 | % - | 147,000 | 0.3 % | 794,777 | 1.8% |
| 2012 | 39,753,685 | 27,025,088 | 68.0 % | 2,052,748 | 5.2 % | 10,435,251 | 26.2 % | 1 | % - | 142,738 | 0.4% | 97,860 | 0.2 % |

| | | | | | | | | | Year Ended June 30, | June 30, | | | | | | | | |
|--|-----------------------------------|------------|-----------------------|-----------------------|----------------------|-------------------|------------|-----------------|---------------------|---------------------------------------|------------|---|-------------|---------------------|------------------------|--------------------------|------------------------|----------------|
| | 2020 | 20 | 2019 | _ | 2018 | | 2017 | h | 2016 | ć. | 2015 | ıc | 2014 | | 2013 | | 2012 | |
| | | % of | | % of | | % of | | % of | | % of | | % of | | % of | | % of | | % of |
| | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total | Revenue | Total |
| Utility Remittances (1)(2) Eversource | \$ 19,993,531 | 80.4 % \$ | 80.4 % \$ 20,975,361 | 80.4 % \$ | 80.4 % \$ 20.842,169 | \$ 2803 % | 21,135,147 | 80.0% | 21,223,577 | 79.8% | 21,899,541 | 80.4 % \$ | 22, 322,100 | 80.4 % \$ | 22,144,093 | 80.2 % \$ 7 | 22,037,771 | 81.5 % |
| United Illuminating | 4,860,619 | 19.6 % | 5,119,321 | 19.6 % | 5,101,013 | 19.7 % | 5,269,202 | 20.0% | 5,381,507 | 20.2 % | 5,334,446 | 19.6 % | 5,457,245 | 19.6 % | 5,477,316 | 19.8% | 4,987,317 | 18.5 % |
| Total | \$ 24,854,150 | - : | 100.0 % \$ 26.094,682 | 100.0 % \$ 25.943,182 | ï | 100.0 % \$ | 26,404,349 | 100.0 % \$ | 26,605,084 | 100.0 % \$ | 27,233,987 | 100.0 % \$ | 27,779,345 | 100.0 % \$ | 27,621,409 | 100.0 % \$ 2 | 27,025,088 | 100.0 % |
| RGGI Auction Proceeds (3) Renewables Energy Efficiency | \$ 4,581,628 | 100.0 % \$ | 2,130,255 100.0 % \$ | 100.0 % \$ | 1,250,260 | 100.0 % \$ | 2,392,647 | 100.0 % | 6,481,562 | 100.0 % % | 5,631,156 | 34.0 % 66.0 % | 7,476,158 | 37.2 % \$ 62.8 % | 4,744,657 | 100.0 % \$ | 2,052,748 | 100.0 % |
| | \$ 4,581,628 | 100.0 % | 2,130,255 | 100.0 % \$ | 1,250,260 | 100.0 % \$ | 2,392,647 | 100.0 % \$ | 6,481,562 | 100.0 % \$ | , | . 69 | 20,074,668 | 100.0 % \$ | 4,744,657 | 100.0% | 2,052,748 | 100.0 % |
| nts | * 76,402 | 001 | 100,779 | % \$ | 56,953 | 69.5 % \$ | 73,486 | % \$ | 589,917 | 100.0 % | 143,614 | % \$ 74.7 % | 321,642 | % \$ 100.0 % | 8,376,681 1,622,569 | 83.5% \$ 16.2% | 8,738,726 1,645,525 | 83.8% 15.8% |
| Private Foundation Total | \$ 76,402 | 100.0 % \$ | 100,000 | 100:0 % \$ | 24,999 | 30.5 % | 25,000 | 100.0 % \$ | 589,917 | 100.0 % \$ | 192,274 | 25.3 % | 321,642 | 100:0 % \$ | \$ 10,035,250 | 100.0% \$ | \$ 10,434,251 | 0.5% |
| Sales of Renewable Energy Certificates | Certificates | | | | | II | | | | II | | | | ll . | | | | |
| SHREC Proceeds(4) | \$ 7,070,360 | | | 75.8 % 4 | Ν | 61.7% \$ | 1 170 | ₩ 8 8 1 6 | | er 8° 8° 1° 0° | ; | e> e % 3 | | er e % 3 ¦ | 1 | | : | 8° 3 |
| CREC/ZREC Receipts** | 1,557,142 | 10.2 % | 211,761,1 | 17.0% 20.70 | 832,718 550 200 | 23.3 % 4 R 2 Q | 355,547 | 15.8% | 255,795 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1 000 | * · · · · · · · · · · · · · · · · · · · | 000 | e 0 0 | 1 000 | ₽ C C | , occ | , co |
| Commissions-RECs | (3,750) | | (3,750) | (0.1 %) | (10,847) | (0.3 %) | (13,500) | (0.5 %) | (23,534) | (0.9%) | 00+,+7+,- | 8 8 | (4,885) | (1.3 %) | (3,000) | (2.0%) | (3,300) | (2.3%) |
| Total | \$ 9.648.012 100.0 % \$ 6.489.479 | 100.0 % | 6,489,479 | 100.0 % \$ | 100.0 % \$ 3,659,519 | 100.0 % \$ | 2,570,647 | 100.0 % \$ | 2,653,783 | 100.0 % \$ | 1,474,488 | 100.0 % \$ | 376,559 | 100.0 % \$ | 147,000 | 100.0 % \$ | 142,738 | 100.0% |
| | | | | | | | | | | | | | | | | | | |

(1) Revenue based on Statutory rate of 1 mil per kWh generated by the utility.

(2) In fiscal years 2018 and 2019 the Green Bank made a cash payments to the State of Connecticut of \$14,000,000 per year sourced primarily from utility remittances, a major component of its operating revenues.

(3) The Regional Greenhouse Gas inhative (RGG) is a cooperative effort among nine Northeastern and Mid-Atlantic states to reduce greenhouse gas emissions. RGGI holds quarteny auctions of the member state's CO2 allowances. At auction, a market-based cleaning poise is determined from prices submitted in the winning bids and is used to vake proceeds returned to the states. The Connecticut Green Bank receives a portion of Connecticut's auction proceeds which is recognized as revenue and invested in Classs I Renewable

(4) Public Act No. 15-194 (the Act) enacted on October 1, 2016 and as amended by Public Act 16-212 created a Solar Home Energy Credit (SHREC), owned by the Green Bank, associated with energy generated from qualifying residential solar PV systems that have received incentives under the Green Bank's RSIP. SHRECs are purchased by the State's two investor owned public utilities through a Master Purchase Agreement (MPA).

(6) The Green Bank and its subsidiaries receive LRECZREC revenue from the State's two investor owned public utilities. RECs are secured when a solar project is registered and energized with a public utility and revenue is paid quarterly based on generation of the project. (®) CGB owns Class 1 Renewable Energy Credits (RECs) generated by certain commercial renewable energy facilities installed on residential funding. Through its RSIP program, CGB owns the rights to future RECs generated during specified time periods. RECs trade on the New England Power Pool (NEPOQL) market.

Connectical Green Bank was established by the Connectical General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

| Primary Covernment - Solar Massic 1,000,000 1,000 | _ | 0.000 | 0040 | 00.40 | | Ended June 30, | | 0044 | 0040 | 0040 |
|--|---|------------------|----------------|---------------|---------------|----------------|---------------|--------------|------------|------|
| ine of Circled (including adjustments) \$ 1,100,000 \$ 1,100,000 \$ 1,100,000 \$ 1,100,000 \$ - \$ including Advances | | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Description Community Co | • | 1 100 000 \$ | 1 100 000 \$ | 1 100 000 \$ | 1 100 000 \$ | 1 100 000 \$ | 1 100 000 \$ | 4 000 000 \$ | | |
| Second Second Properties 1,008,069 078,390 0712,470 0877,102 084,269 023,471 508,005 120,006 - | | | | | | | | | _ ' | , |
| Current More Outstanding Debt | | | | | | | | | _ | |
| | | (1,000,000) | | | | | | 12.6.088 | | |
| ### ### ### ### ### ### ### ### ### ## | | | 230,000 | | - 000,734 | 091,707 | | | | |
| ine of Creat (including adjustments) \$ 1,000,000 \$ 1,000,000 \$ - \$ - \$ - \$ - \$ - \$ \$ - \$ \$ \$ | valiable 200 | | | | | | | 0,010,912 | | |
| Including Repyments | rimary Government - Webster Bank a | ind Liberty Bank | - CT Green Ban | k | | | | | | |
| Communitive Perspanses 1,18,000,000 1,000,000 | ne of Credit (including adjustments) \$ | | | | - \$ | - \$ | \$ | - \$ | - : | 6 |
| Commission Com | umulative Advances | 16,000,000 | 16,000,000 | 1,000,000 | _ | | - | | _ | |
| Validable LOC | umulative Repayments | (16,000,000) | (16,000,000) | | | | <u> </u> | | | |
| Imary Government - Webster Bank and Liberty Bank - SHREC Warehouse 1 ne of Credit (including seleptoments) \$ 1,40,000,000 \$ | Cumulative Outstanding Debt | _ | | 1,000,000 | _ | - | | | _ | |
| ne of Creat (including agularments) 8 14,000,000 S | vailable LOC | _ | | 15,000,000 | _ | | | | | |
| New York State S | C | | CUDEC March | | | | | | | |
| umulative Advances 6,000,000 | | | | | | | | | | |
| umulative Repayments | , , , | | Ф | - \$ | - \$ | - \$ | | - Þ | - : | |
| Cumulative Outstanding Debt | | 6,000,000 | | _ | _ | _ | | _ | _ | |
| Image Covernment - Amalgamated Bank Fig. | | | | | | | - | _ | | |
| ### Amagement - Amalgemated Bank | - | | | | | | <u> </u> | | | |
| ne of Credit (Including agujerments) \$ 6,000,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | /ailable LOC | 8,000,000 | - | - | - | | 7 | | | |
| Second Control (Including adjustments) Second Sec | rimany Government - Amalgamate d D | lan k | | | | | | | | |
| Unrulative Advances | | | _ ¢ | t | _ ¢ | _ ¢ | _ ¢ | e | | |
| Umulative Outstanding Debt 4,900,000 — | | | — Ф | Þ | _ p | _ p | _ • | p | - ; | , |
| Cumulative Outstanding Debt | | | | | | | _ | | | - 4 |
| Valiable LOC | | | _ | | | | | | | |
| Community Comm | _ | | | | | | | | | |
| riginal Frem Note | valiable LOC | 4,900,000 | 7 | | | | _ | | | 1 2 |
| riginal Frem Note | rimany Government - The Painvestme | ant Fund | | | | | | | | |
| pepyments (2,510,837) (1,143,161) (921,903) (541,664) (6,819) — — — — — — — — — — — — — — — — — — — | | | 2 510 837 | 2 5 10 837 | 2.510.837 | 2 510 837 | _ | _ | | |
| Cumulative Outstanding Debt | | | | | | | | | | |
| Image Covernment - Meriden Hydro Comment - Meriden Hydro Comment - Meriden Hydro Comment - Meriden Hydro Comment - | | (2,010,007) | | | | | | | | |
| | Summarive Surstanding Bebi | | 1,007,000 | 1,000,304 | 1,505,110 | 2,002,210 | | | | |
| Eapyments (268,681) (159,640) (63,417) | rimary Government - Meriden Hydro | | | | | | | | | |
| Cumulative Outstanding Debt 2,689,290 2,798,331 2,904,664 2,967,971 — — — — — — — — — — — — — — — — — — — | lean Renewable Energy Bond | 2,957,971 | 2,957,971 | 2,957,971 | 2,957,971 | - | | | | |
| Primary Government - Connecticut State Colleges and Universities Primary Government - Connecticut State Colleges and Universities Primary Government - SHREC ABS Bond Primary Go | epayments | (268,681) | (159,640) | (53,417) | | - | | | | |
| Stean Renewable Energy Bond 9,101,729 | Cumulative Outstanding Debt | 2,689,290 | 2,798,331 | 2,904,554 | 2,957,971 | | - | | | |
| lean Renewable Energy Bond 9,101,729 9,101,729 9,101,729 | | | | | | | | | | |
| Repayments (616,976) — — — — — — — — — — — — — — — — — — — | | | | 0.404.700 | | | | | | |
| Cumulative Outstanding Debt 8,686,763 9,101,729 9,101,729 — — — — — — — — — — — — — — — — — — — | =- | | 9,101,729 | 9,101,729 | | , — - | _ | _ | | |
| ### CABS Bond 38,600,000 38,600,000 38,600,000 - - - - - - - - - | • • | | | - | | | | | | |
| ##REC ABS Bond 38,600,000 38,600,000 | Cumulative Outstanding Debt | 8,585,753 | 9,101,729 | 9,101,729 | | | | | | |
| SHREC ABS Bond 38,600,000 38,600,000 | | | | | | | | | | |
| Completive Outstanding Debt Completive Outstanding Outst | | | | | | | | | | |
| Example Exam | | | | 5 PM 6 | | | _ | _ | | |
| Cumulative Outstanding Debt 36,189,938 38,427,757 | | | | | | | _ | _ | _ | |
| Timary Government - Kresge Note riginal Term Note | | | | | | | | | | |
| Priginal Term Note 1,000,000 1,000,000 | Cumulative Outstanding Debt | 36, 189, 938 | 38,427,757 | | | | | | | |
| Priginal Term Note 1,000,000 1,000,000 | rimany Covernment - Vreeze Note | · | | | | | | | | |
| ransfer of Note to Strategic Partner Cumulative Outstanding Debt | , | 1.000.000 | 1.000.000 | | | _ | _ | | _ | |
| Cumulative Outstanding Debt | = | | 1,000,000 | | | _ | _ | | | |
| T Solar Lease 2 LLC - Key Bank ine of Credit (including adjustments) 27,600,000 27,600,000 27,600,000 27,600,000 24,000,000 26,700,0 | | | 1,000,000 | | - | - | - | | | |
| ine of Credit (including adjustments) 27,600,000 27,600,000 27,600,000 27,600,000 24,000,000 26,700 | ounidative Outstanding Debt | | 1,000,000 | | - | - | - | | | |
| ine of Credit (including adjustments) 27,600,000 27,600,000 27,600,000 27,600,000 24,000,000 26,700 | T Solar Lease 2 LLC - Key Bank | | | | | | | | | |
| umulative Advances 27,500,633 27,500,633 27,500,633 27,500,633 18,000,000 3,000,000 umulative Repayments (6,646,393) (4,516,713) (3,635,166) (2,392,925) (632,325) Cumulative Outstanding Debt 20,854,240 22,983,920 23,665,467 25,107,708 17,167,675 3,000,000 valiable LOC - - 6,000,000 23,700,000 26,700,000 26,700,000 EFIA Solar Services Inc Connecticut Housing Finance Authority priginal Term Note 1,895,807 1,895,807 1,895,807 - <td< td=""><td></td><td>27 600 000</td><td>27 600 000</td><td>27 600 000</td><td>27 600 000</td><td>24 000 000</td><td>26 700 000</td><td>26 700 000</td><td>26 700 000</td><td></td></td<> | | 27 600 000 | 27 600 000 | 27 600 000 | 27 600 000 | 24 000 000 | 26 700 000 | 26 700 000 | 26 700 000 | |
| umulative Repayments (6,646,393) (4,516,713) (3,835,166) (2,392,925) (832,325) — <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20,100,000</td><td></td></th<> | | | | | | | | | 20,100,000 | |
| Cumulative Outstanding Debt 20,854,240 22,963,920 23,665,467 25,107,708 17,167,675 3,000,000 6,000,000 23,700,000 26,700,000 26,700,000 EFIA Solar Services Inc Connecticut Housing Finance Authority riginal Term Note 1,695,807 1,695,807 1,695,807 1,695,807 - - - - - epayments (339,666) (244,875) (150,085) (55,295) - - - - - Cumulative Outstanding Debt 1,556,141 1,650,932 1,745,722 1,840,512 - - - - - | | | | | | | 3,000,000 | | | |
| EFIA Solar Services Inc Connecticut Housing Finance Authority Authority riginal Term Note 1,695,807 1,695,807 1,695,807 - | · - | | | | | | 3,000,000 | | | |
| EFIA Solar Services Inc Connecticut Housing Finance Authority riginal Term Note 1,695,807 1,695,807 1,695,807 - - - - - - epayments (339,666) (244,875) (150,085) (55,295) - - - - - - Cumulative Outstanding Debt 1,556,141 1,650,932 1,745,722 1,840,512 - - - - - - | - | 20,004,240 | ZZ,903,9ZU | 23,000,407 | ∠0,107,700 | | | | 26 700 000 | |
| riginal Term Note 1,895,807 1,895,807 1,895,807 1,895,807 | valiable LOG | | _ | _ | | 0,000,000 | 20,700,000 | 20,7 00,000 | 20,700,000 | |
| riginal Term Note 1,895,807 1,895,807 1,895,807 1,895,807 | EFIA Solar Services Inc Connectica | ut Housing Finar | rce Authority | | | | | | | |
| epayments (339,666) (244,875) (150,085) (55,295) - | | | | 1.895 807 | 1.895 807 | _ | _ | _ | | |
| Cumulative Outstanding Debt 1,556,141 1,650,932 1,745,722 1,840,512 - - - - - | 3 | | | | | _ | _ | | _ | |
| | | | | | | | | | | |
| otal Penortina Entity | Gumurative Outstailuling Debt | 1,000,141 | 1,000,902 | 1,740,722 | 1,040,012 | | | | | |
| | | | | | | | | | | |

CONNECTICUT GREEN BANK DEMOGRAPHIC AND ECONOMIC STATISTICS - FOR THE STATE OF CONNECTICUT Last Nine Fiscal Years*

| Fiscal Year | Population ⁽¹⁾ | Median Age ⁽²⁾ | Per Capita | Median Household Income ⁽³⁾ | Population 3 Years and Over Enrolled in Public School ⁽⁴⁾ | Unemployment Rate ⁽⁵⁾ |
|----------------|---------------------------|------------------------------|------------|--|---|-------------------------------------|
| 2020 | 3,545,837 | n/a | n/a | n/a | n/a | 10.1% |
| 2019 | 3,565,287 | 41.2 | 45,359 | \$ 78,833 | 712,565 | 3.7% |
| 2018 | 3,572,665 | 41.0 | \$ 44,026 | \$ 76,348 | 720,366 | 4.4% |
| 2017 | 3,573,880 | 40.9 | \$ 42,029 | \$ 74,168 | 718,887 | 5.0% |
| 2016 | 3,578,674 | 40.9 | \$ 41,087 | \$ 73,433 | 724,486 | 5.2% |
| 2015 | 3,587,509 | 40.8 | \$ 39,430 | \$ 71,346 | 730,132 | 5.5% |
| 2014 | 3,594,783 | 40.7 | \$ 39,373 | \$ 70,048 | 733,536 | 6.5% |
| 2013 | 3,594,915 | 40.6 | \$ 37,726 | \$ 67,098 | 751,810 | 7.8% |
| 2012 | 3,594,395 | 40.5 | \$ 36,891 | \$ 67,276 | 760,146 | 8.5% |

- Sources: (1) US Census Bureau Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2019
 - (2) US Census Bureau Annual Population Estimates for Selected Age Groups by Sex
 - (3) US Census Bureau SELECTED ECONOMIC CHARACTERISTICS American Community Survey 1-Year Estimates
 - (4) US Census Bureau SCHOOL ENROLLMENT American Community Survey 1-Year Estimates
 - (5) US Department of Labor Databases, Tables & Calculators by Subject Local Area Unemployment Statistics

^{*}Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results FOR DISCUSS are only shown beginning with Fiscal Year 2012.

CONNECTICUT GREEN BANK
PRINCIPAL EMPLOYERS - FOR THE STATE OF CONNECTICUT
Last Seven Calendar Years*

| | | 2019 | | | 2018 | | 26 | 2017 | | 72 | 2016 | | | 2015 | | | 2014 | | | 2013 | |
|---------------------------------------|--------------------|-------------------|--|--------------|------|---|--|-------|--|-------------------------------|------|--|----------|---------------------|---|---------------------------------|-------|--|--------------------|-------|--|
| Етріоув | Employees (1) Rank | [®] Rank | Percentage of Total State Employees (*) Rani | Employees (1 | | Percentage of Total State Employment | Percentage of Total State Employment ⁽²⁾ Employees ⁽¹⁾ Rani | - ш | Percentage of Total State mployment ⁽³⁾ En | Employees ⁽¹⁾ Rank | | Percentage of Total State Employment ⁽³⁾ Employees ⁽¹⁾ Rank | Employee | ≫ [©] Rank | Percentage of Total State Employment | ® Employees ⁽¹⁾ Rank | | Percentage of Total State Employment [®] L | Employees (*) Rant | _ | Percentage of Total State Employment® |
| State of Connecticut | 48 512 | - | 2 62% | 48 129 | - | 261% | 47 752 | - | 268% | 48.912 | - | 271% | 51 646 | - | 2 89% | 54.230 | - | 3.05% | 53 951 | - | 3 10% |
| Yale New Haven Health System | 24.365 | . ~ | 1.32 | 19.416 | . 2 | 1.05 | 21.867 | . ~ | 1.21 | 19.920 | | 1.10 | 20.071 | · " | 1.12 | 18.869 | · (r) | 1.06 | 18,639 | · (r) | 1.07 |
| Hartford Healthcare | 19,514 | e | 1.05 | 18,652 | e | 1.0 | 18,425 | 60 | 1.02 | 18,135 | 6 | 1.01 | 18,107 | 4 | 1.01 | 18,597 | 寸 | 1.05 | 16,951 | 4 | 0.98 |
| United Technologies | 19,000 | 4 | 8. | 18,000 | 4 | 0.97 | 16,000 | 2 | 0.88 | 15,000 | 2 | 0.83 | 24,000 | 2 | 1.34 | 25,000 | 2 | 1.40 | 27,000 | 2 | 1.55 |
| Yale University | 16,089 | ß | 0.87 | 14,440 | ß | 0.78 | 16,184 | 4 | 0.89 | 15,018 | 4 | 0.83 | 14,787 | 2 | 880 | 14,787 | ß | 88.0 | 14,750 | ß | 0.85 |
| General Dynamics Electric Boat | 11,862 | 9 | 0.64 | 11,862 | 9 | 0.64 | 11,430 | 9 | 90 | 10,230 | 9 | 0.57 | 9,583 | 9 | 0.54 | 988'8 | ۲- | 0.50 | 8,817 | 9 | 0.51 |
| University of Connecticut | 9.202 | ~ | 0.50 | 9,760 | ۲. | 0.83 | 10,019 | ~ | 0.55 | 9,861 | ~ | 0.55 | | | | | | | | | |
| Wal-Mart Stores Inc. | 8345 | œ | 0.45 | 8,835 | 00 | 0.48 | 8,974 | | 0.50 | 8,800 | 00 | 0.49 | 8,800 | ۲- | 0.49 | 9,289 | 9 | 0.52 | 8,761 | ~ | 0.50 |
| Sikosrsky, A Lockheed Martin Company | 7,625 | တ | 0.41 | 7,900 | တ | 0.43 | 7,730 | on on | 0.43 | 8,000 | 6 | 0.44 | N/A | i | 1 | ďΖ | i | 1 | N/A | i | 1 |
| The Travelers Cos. Inc. | 7, 400 | 5 | 0.40 | 7,400 | 0 | 0.40 | 7,400 | 0 | 0.41 | 7,400 | 10 | 0.41 | 7,300 | 00 | 0.41 | 7,400 | o | 0.42 | 7,400 | s | 0.43 |
| Mohegan Sun | 7,000 | £ | 0.38 | 7,150 | F | 0.39 | 6,800 | Ξ | 0.38 | 6,735 | 12 | 0.37 | 6,900 | 10 | 0.39 | 7,300 | 10 | 0.41 | 7,300 | 6 | 0.42 |
| The Hartford Financial Services Group | 6,600 | 12 | 0.36 | 6,800 | 12 | 0.37 | , | | 0.38 | 7,000 | Ξ | 0.39 | 7,000 | o | 0.39 | 7,000 | £ | 0.39 | 7,700 | £ | 0.44 |
| Foxwoods Resort Casino | 5,500 | 15 | 0.30 | 5,500 | 14 | 0:30 | , | 13 | 0.36 | | 5 | 0.36 | 5,301 | 14 | 0.30 | 7,600 | 00 | 0.43 | 7,667 | 00 | 0.44 |
| | | | | | | | | ٦ | | | | | | | | | | | | | |

Sources: (1) Hafford Business Journal, Book of Lists: Connecticut's largest employers (2) Public of Connecticut due to double counting of the employees.) (2) Total State Employment from US Department of Labor - Databases. Tables & Calculators by Subject - Local Area Unemployment Statistics

*Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011. Accordingly, financial results are only shown beginning with Fiscal Year 2012.

| | | | | Year I | Ended June | e 30, | | | |
|--|----------------------|---------------------|----------------------|----------------------|---------------|---------------|--------------|----------------------|---------------|
| | 2020 | 2019 ⁽¹⁾ | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Business Courts on | | | | | | | | | |
| Program Services Statutory & Infrastructure | 9.00 | 8.00 | 9.00 | 9.00 | 9.00 | 9.00 | 7.00 | 7.00 | 9.00 |
| Residential | 9.00 | 1.00 | 6.00 | 6.00 | 6.00 | 8.00 6.00 | 7.00 5.00 | 3.00 | 1.00 |
| Commercial & Industrial | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 | 2.00 | 4.00 | 2.00 | 1.00 |
| Institutional | - | | | - | | 1.00 | 1.00 | 1.00 | 1.00 |
| Subtotal Program Services | 12.00 | 13.00 | 19.00 | 19.00 | 19.00 | 17.00 | 17.00 | 13.00 | 11.00 |
| , and the second | | | | | | | | | |
| Administrative & Support | | | | | | | | | |
| Executive | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| Finance | 4.00 | 4.00 | 6.00 | 5.00 | 6.00 | 5.00 | 4.00 | 3.00 | 1.00 |
| Accounting | 6.00 | 5.75 | 5.75 | 5.75 | 5.75 | 5.30 | 3.50 | 2.75 | 2.20 |
| Legal & Policy | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 2.00 | 2.00 | 2.00 |
| Marketing Operations | 3.00 | 5.00 3.00 | 5.00 | 6.00 | 6.00 | 6.00 | 5.00 | 5.00 | 5.00 |
| Operations Subtotal Administrative & Support | <u>5.00</u> 25.00 | 24.75 | <u>3.50</u> 27.25 | <u>3.50</u> 27.25 | 3.90 28.65 | 3.50 26.80 | 22.30 | <u>4.00</u> 20.75 | 3.85 18.05 |
| Subtotal Administrative & Support | | 24.73 | 21.25 | | 20.03 | | 22.30 | 20.73 | 10.03 |
| Total FTEs by Function | 37.00 | 37.75 | 46.25 | 46.25 | 47.65 | 43.80 | 39.30 | 33.75 | 29.05 |
| Total 1 123 by 1 direction | | | 10.25 | 10.20 | 47.00 | 10.00 | | | |
| (1) Reflects staff reductions as a result of the | cash payme | ents of \$14,0 | 000,000 ma | de to the Sta | ate of Conne | ecticut in FY | 2019 and F | FY 2018. | 4 |
| | | | | | | | | _41 | |
| Source: Connecticut Green Bank internal pa | yroli recoras | 5 | | | | | | | |
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| FORDIS | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |

⁽¹⁾ Reflects staff reductions as a result of the cash payments of \$14,000,000 made to the State of Connecticut in FY 2019 and FY 2018.

| | | | | | | Year Ended June 30, | _ | | | |
|---|----|--|--|--|---|--|--|--|--|------------------------------------|
| Clean Energy Investment (\$e in Millions) | | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| CGB Dollars Invested Private Dollars Invested | \$ | 36.8 275.7 | \$ 40.3 297.1 | \$ 32.7 | \$ 33.1 | \$ 40.0 | \$ 57.6 265.1 | \$ 31.8 75.3 | \$ 18.5 92.7 | \$ 3.4 6.5 |
| Total Project Investment | | 312.5 | 337.4 | 231.6 | 190.9 | 323.0 | 322.8 | 107.1 | 111.1 | 6.6 |
| Number of Clean Energy Projects Annual Energy Savings of Clean Energy (MMBtu) | | 9,335 354,254 | 12,150 287,647 | 6,692 | 4,898 536,298 | 7,268 339,461 | 6,488 704,744 | 2,454 244,875 | 1,114 463,269 | 288 |
| Installed Capacity of Clean Energy (MW) Anaembin Dinesters | | - | ! | | | - | l | ŀ | I | I |
| Biomass | | <u>.</u> | 1 9 | l | 1 9 | 2 | 9.0 | ¦ 6 | 1 1 | I |
| CHP Fuel Cell | | 7.8 | 9.0 | | 8:0 | | 0.3 | 3.0 | 0.7 14.8 | 1 1 |
| Energy Efficiency | | 1 | 1 | 1 | 1 | | | 1 | I | I |
| Geomerical | | 0.9 | 1.0 | | 0.2 | | 0.0 | | 1 1 | I I |
| Solar PV Wind | | 72.5 | 99.2 | 56.9 | 49.0 | 65.1 | 55.6 5.0 | 20.4 | 8.0 | 9. 1 |
| Other | | 82.2 | 0.3 | 56.9 | 0.1 50.1 | 66.1 | 62.4 | 23.4 | 23.5 | 1.9 |
| Lifetime Production of Clean Energy (MWh) | | 31 536 | | | | 106 171 | l | ŀ | I | I |
| Biomass | | | ï | - | I | - I | I | 1 | I | I |
| CHP Energy Efficiency | | 359,766 | 65,197 1,531,543 | 174,569 | 94,017 87,756 | _ 114,367 | 31,930 1,591,514 | 354,780 59,724 | 81,008 4,862 | 1 1 |
| Fuel Cell Geothermal | | 618, 106 628 | 512 | 236 | 584 | 712 | - 61 | 61 | 1,166,832 | 1 1 |
| Hydro Solar PV | 2, | 96,579 2,153,782 | 107,063 1,983,141 | 1,707,449 | 20,711 1,470,263 | - 1,893,138 | 96,579 1,590,331 | 580,837 | - 226,886 | - 55,238 |
| Wind | 0 | - | 1 | 1 | I | 1 33 | 118,260 | 1 | I | I |
| Outer | 3 | 3,260,397 | 3,687,456 | 1,882,254 | 1,673,331 | 2,115,043 | 3,428,675 | 995,402 | 1,479,588 | 55,238 |
| Jobs Created by Year Direct Jobs (# of Jobs) Indirect and Induced Jobs (# of Jobs) | | 1,155 1,526 | 1,467 1,919 | 987 | 902 1,235 | 1,957 3,115 | 1,728 | 596 952 | 579 1,161 | 58 93 |
| Lifetime CO2 Emission Reductions (Tons) | | ! | | 1 | 1 | | 1 | | | |
| Avoided Emissions Homes' Energy Use for One Year Passenger Vehicles Driven for One Year Acres of U.S. Forests in One Year | ÷ | 1,474,033 154,306 288,897 1,746,348 | 1,979,170 207,185 387,899 2,344,804 | 1,025,988 107,404 201,084 1,215,530 | 858,938 89,916 168,344 1,017,620 | 1,131,712 118,471 221,805 1,340,785 | 1,890,035 197,855 370,430 2,239,202 | 358,717 37,552 70,305 424,986 | 210,361 22,021 41,229 249,223 | 31,043 3,250 6,084 36,778 |

Source: Internal Connecticut Green Bank Reporting: Key Performance Indicators Data File

CONNECTICUT GREEN BANK
CAPITAL ASSETS STATISTICS BY FUNCTION
Last Nine Fiscal Years*

| | , | | | | Year E | Year Ended June 30, | | | | |
|---|------------|------------------|---------------|---------------|------------|---------------------|---|--------------|---------------|--------|
| | | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Capital assets being depreciated: | | | | | | | | | | |
| Solar lease equipment | € | 87,440,871 \$ | 84,919,294 \$ | 75,602,983 \$ | 64,930,842 | \$ 47,534,491 | \$ 21,011,832 \$ | 1,035,159 \$ | \$ | |
| Furniture and equipment | | 4,733,640 | 4,733,640 | 4,084,161 | 169,955 | 169,423 | 222,701 | 338,938 | 335,744 | 13,049 |
| Computer hardware and software | | 208,510 | 201,134 | 215,458 | 234,137 | 212,832 | 128,628 | 88,337 | 136,659 | 28,460 |
| Leasehold improvements | | 192,027 | 192,027 | 192,027 | 250,981 | 225,844 | 153,657 | 139,682 | 71,470 | 56,224 |
| Capital assets not being depreciated: WIP solar lease equipment | | | | | | 11,931,740 | 6,014,560 | 1,759,111 | | |
| Construction in progress | | | | | | 4,502 | 7,141 | 7,141 | | |
| | | 92,575,048 | 90,046,095 | 80,094,629 | 65,585,915 | 60,078,832 | 27,538,519 | 3,368,368 | 543,873 | 97,733 |
| Less accumulated depreciation and amortization: | | | | | | | 7 | | | |
| Solar lease equipment | | 11,614,390 | 8,715,513 | 6,053,786 | 3,619,121 | 1,600,070 | 319,144 | 9,865 | | |
| Furniture and equipment | | 614,039 | 459,632 | 282,278 | 136,379 | 103,079 | 122,149 | 205,820 | 146,560 | 626 |
| Computer hardware and software | | 189,629 | 170,590 | 174,621 | 164,972 | 151,573 | 50,906 | 33,845 | 18,093 | 3,807 |
| Leasehold improvements | | 184,994 | 177,320 | 166,723 | 155,236 | 109,196 | 75,232 | 44,501 | 16,715 | 1,971 |
| | | 12,603,052 | 9,523,055 | 6,677,408 | 4,075,708 | 1,963,918 | 567,431 | 294,031 | 181,368 | 6,404 |
| | | | | | | | | | | |
| Capital assets, net | € 9 | \$ 79,971,996 \$ | -4 | 73,417,221 \$ | 61,510,207 | 58,114,914 | 80,523,040 \$ 73,417,221 \$ 61,510,207 \$ 58,114,914 \$ 26,971,088 \$ 3,074,337 \$ 362,505 \$ | 3,074,337 \$ | 362,505 \$ | 91,329 |
| | | | | | | | | | | |

*Note: This schedule is intended to show information for ten years. Additional years' information will be displayed as it becomes available. The Connecticut Green Bank was established in July 2011.

FINANCIAL STATISTICS





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| Area Median Income Band Penetration Distressed Community Penetration Societal Impacts Financing Program Financial Performance Marketing Case 2 - CT Green Bank PPA and CT Solar Lease Description | |
| Area Median Income Band Penetration Distressed Community Penetration Societal Impacts Financing Program Financial Performance Marketing Case 2 - CT Green Bank PPA and CT Solar Lease Description Key Performance Indicators | |
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1. Statement of the Connecticut Green Bank

June 30, 2020

Re: Statement of the Connecticut Green Bank on the Non-Financial Statistics Contents of the Comprehensive Annual Financial Report for FY 2020 - Background and Market, Measures of Success, and Market Transformation

Dear Reader:

This is the "Non-Financial Statistics" section of the Comprehensive Annual Financial Report for FY 2020.

In FY 2020, our ninth year of operation, we continued building public private partnerships that leverage limited public funds by attracting private capital to spark the growth of green energy in Connecticut. This year, we were forced to manage through a public health crisis with respect to COVID-19 and its impact on the demand and supply-sides of the clean energy marketplace in Connecticut. Based on surveys conducted with the Governor's Office, Department of Energy and Environmental Protection (DEEP), Department of Economic and Community Development (DECD, AdvanceCT and our utility partners, the Green Bank saw that the clean energy industry in Connecticut has been significantly harmed by the crisis. Some companies have seen existing business cancelled or delayed while new business dropped significantly. This has led some companies to reduce employee schedules, laying off and furloughing employees at rates higher than at other small businesses. Many of the contractors surveyed feared a long recovery¹.

Despite this turmoil, the Green Bank delivered on another year of successes including:

- In honor of the 50th Anniversary of Earth Day, drafting and implementing our first Green Bond Framework that spells out how the green bank will leverage its bonding capacity while ensuring that all future issuances are held to the highest standards for transparency and receiving programmatic certification from the Climate Bonds Initiative. Winning Environmental Finance's Green Bond Structure and Asset Backed Bond of the Year for the first ever \$38.6 million solar asset back security transaction by a green bank. The securities were used to finance the Green Bank's Solar Home Renewable Energy Credits (SHREC) to support the incentives offered to residential end-use customers to install solar PV on their homes.
- In partnership with local contractors and financial institutions, continuing to provide families, especially within vulnerable communities, with access to clean energy to reduce the burden of energy costs through the Residential Solar Investment Program, Solar for All, Smart-E Loan,

¹ Recording of the webinars with contractors regarding the COVID 19 impacts can be found https://m.youtube.com/watch?v=YX0prqFUX7U and https://m.youtube.com/watch?v=IpCQaPcT8eE

CONNECTICUT GREEN BANK

1. STATEMENT OF THE CONNECTICUT GREEN BANK

and suite of multifamily financing programs. Connecticut continues is nationwide example of being a "solar with justice" state by ensuring greater access to and investment in solar PV for low-to-moderate income families and communities of color.

- In collaboration with the electric distribution companies, including Eversource Energy and
 United Illuminating, as well as our private capital partners Amalgamated Bank, Greenwork
 Lending, and others, we continue to provide businesses with easy and affordable access to
 capital to finance clean energy improvements through the Small Business Energy Advantage
 (SBEA), Commercial Property Assessed Clean Energy (C-PACE), and Green Bank Solar PPA
 programs.
- Being the green bank featured in Yale University's "Certificate in Financing and Deploying Clean Energy" program where 80 students from around the world in businesses and government learned about the structure and strategies of green investment banking to accelerate the clean energy transition.
- At the end of FY 2020, the U.S. House of Representatives passed a \$1.5 trillion "Moving America Forward Act" to modernize and decarbonize our nation's infrastructure, including a \$20 billion "Clean Energy and Sustainability Accelerator" (i.e., National Climate Bank) modelled after the Connecticut Green Bank.

FY 2020 saw our best leverage ratio ever since our inception at 8.5 to 1, further demonstrating that the green bank model of using limited public funds to enable more private investment to "scale-up" clean energy deployment works.

The years ahead also present the organization with new opportunities. Governor Lamont issued his first Executive Order (EO1²) that mandates state agencies improve their sustainability use and reaffirmed the states commitment to fighting climate change with Executive Order 3 (EO3³). The State has a Renewable Portfolio Standard of 40% by 2030. The Public Utilities Regulatory Authority (PURA), initiated its Equitable Modern Grid docket, including energy affordability, battery storage, zero emission vehicles, and other areas of clean energy important to the Green Bank. These will undoubtedly take the Green Bank down new roads and drive continued innovation and opportunities for investment to grow our green energy economy.

We are making steady progress ensuring that the green economy is accessible to everyone – and throughout this report, the reader will see the progress we are making in underserved markets.

The assembly of the "Non-Financial Statistics" section of the Comprehensive Annual Financial Report is a process of continuous improvement, at the forefront of such is having established methodologies for monitoring and evaluating impact. During FY2020, we continued to make great strides in terms of our Evaluation, Measurement, and Verification agenda. Building on our economic development (i.e., job creation and revenue generation for the State of Connecticut from corporate, individual, and sales taxes), environmental protection (i.e., air emission reductions), and public health benefits (e.g. reduced

https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Orders/December 1.

https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Orders/Lamont-Executive-Orders/Executi

1. STATEMENT OF THE CONNECTICUT GREEN BANK

hospitalizations, sick days, etc.) from clean energy investment and deployment. In FY2021, we will continue to make progress in developing methodologies to estimate the energy burden reduction from the deployment of clean energy in Connecticut with a focus on financing solar PV projects as well as metrics on equity (i.e., Community Reinvestment Act).

As we continue to bolster our work on social impact methodology and transparency, we have reengaged Kestrel Verifiers to assess the Green Bank's methods for representing impact using our indicators. The team from Kestrel has reviewed and endorsed the Green Bank's current methodologies and found the Green Bank's reporting to provide a high degree of transparency both in terms of activity and the underlying methodologies used to calculate this activity. They also reviewed the Green Bank's calculations.

The result is an ever evolving and more transparent Non-Financial Statistics section that we hope is useful to those striving to learn from the successes and challenges of the Connecticut Green Bank.

Regards,

Bryan Garcia President and CEO

Director of Operations

Statement of Non-Financial Statistics Auditor



Connecticut Green Bank 845 Brook Street Rocky Hill, CT 06067

September 30, 2020

To the Board of Directors Connecticut Green Bank,

Report on Non-Financial Metrics included in the 2020 CAFR

In September 2020, the Connecticut Green Bank engaged Kestrel Verifiers (Kestrel) to conduct an independent external review of the metrics and underlying data collection and calculation methods outlined in the non-financial statistics section of Connecticut Green Bank's Comprehensive Annual Financial Report (CAFR or "Report") for FY2020.

Kestrel has confirmed conformance of the Green Bonds Reporting section of the CAFR with the Green Bank's Green Bond Framework. The expected Key Performance Indicators of the bond-financed projects are included, and the report transparently describes the allocation of bond proceeds. We proposed changes to improve the section and usability of information by investors.

Kestrel evaluated data collection methods and performance calculation methodologies described in the Report and assessed the degree of transparency exhibited in reporting on the following metrics: staff diversity, clean energy generated, job years created, public health benefits, carbon dioxide (CO₂) emissions avoided, and nitrogen oxides (NO₃), Sulfur Dioxide (SO₂), and particulate matter (PM_{2.5}) avoided.

We note that the Green Bank's overall efforts in FY2020 resulted in improved air quality, benefits to public health and productivity, including avoiding premature deaths and lost work days. In total, the cumulative health benefits from CTGB's 2020 efforts are estimated at between \$983,350 and \$2,220,239. The Green Bank's FY2020 efforts also resulted in 1,079 direct jobs and \$10,024,298 in individual, corporate, and sales tax revenue, which supports public programs and services.

We commend the Green Bank's meticulous project-level data tracking and the multi-faceted approach to reporting positive impacts on public health, air quality, financial leverage, and the clean energy transition. A remarkable range of metrics are reported, ranging from internal workforce diversity, job years supported, annual CO₂ emissions avoided, public health financial savings, and invested capital. The Green Bank offers equivalencies such as carbon sequestered by young trees that translate the technical metrics into more approachable numbers for all audiences.

Based on the information provided to Kestrel Verifiers by Connecticut Green Bank and our understanding of best practices in goal setting, measurement and disclosure, it is our opinion that Connecticut Green Bank's metrics, data collection and calculation methodologies are sound and represent best practice. It is our opinion that Connecticut Green Bank adequately reports on these metrics and performance against them and demonstrates a high level of transparency.



We commend the Connecticut Green Bank for leadership in reporting.

Sincerely,

Monica Reid

CEO

Kestrel Verifiers

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3. Organizational Background

The Connecticut Green Bank is the nation's first green bank. The organization is creating a thriving marketplace to accelerate clean energy adoption in Connecticut by making clean energy financing accessible and affordable for homeowners, businesses and institutions.

Governance

Board of Directors

Pursuant to Section 16-245n of the General Statutes of Connecticut, the powers of the Connecticut Green Bank are vested in and exercised by the Board of Directors that is comprised of eleven voting and one non-voting members each with knowledge and expertise in matters related to the purpose of the organization – see Table 1.

TABLE 1. COMPOSITION OF THE BOARD OF DIRECTORS OF THE CONNECTICUT GREEN BANK FOR FY 2020

| Position | Name | Status | Voting |
|------------------------------------|--|--------------------|--------|
| | | (as of 06-30-2020) | |
| Commissioner of DECD (or designee) | Binu Chandy | Ex Officio | Yes |
| Commissioner of DEEP (or designee) | Mary Sotos⁴ Michael Li | Ex Officio | Yes |
| State Treasurer (or designee) | Bettina Bronisz Steven Meier⁵ | Ex Officio | Yes |
| Finance of Renewable Energy | Vacant | Vacant | Yes |
| Finance of Renewable Energy | Kevin Walsh | Appointed | Yes |
| Labor Organization | John Harrity | Appointed | Yes |
| R&D or Manufacturing | Lonnie Reed ⁶ | Appointed | Yes |
| Investment Fund Management | Eric Brown | Appointed | Yes |
| Environmental Organization | Matthew Ranelli | Appointed | Yes |
| Finance or Deployment | Tom Flynn | Appointed | Yes |
| Residential or Low Income | Betsy Crum ⁷ Brenda Watson | Appointed | Yes |
| President of the Green Bank | Bryan Garcia | Ex Officio | No |
| President of the Green Bank | | | |

⁴ Michael Li, Bureau Chief for the Bureau of Energy and Technology Policy replaced Mary Sotos as DEEP designee as of 10/21/2019,

⁵ Steven Meier replaced Bettina Bronisz as Treasurer's designee as of 5/1/2020.

 $^{^{6}}$ Lonnie Reed was appointed as Chair of the Green Bank by Gov. Lamont as of 10/10/2019.

⁷ Betsy Crum resigned effective 2/8/2020. Brenda Watson was appointed by Rep Aresimowicz on 2/9/2020.

CONNECTICUT GREEN BANK

3. ORGANIZATIONAL BACKGROUND

The Board of Directors of the Connecticut Green Bank is governed through statute, as well as an <u>Ethics Statement</u> and <u>Ethical Conduct Policy</u>, <u>Resolutions of Purposes</u>10, <u>Bylaws</u>11, <u>Joint Committee</u>
<u>Bylaws</u>12, and <u>Comprehensive Plan</u>13. The Comprehensive Plan for the Connecticut Green Bank provides a multi-year strategy to support the vision and mission of the organization and the public policy objective of delivering consumers cheaper, cleaner, and more reliable sources of energy while creating jobs and supporting local economic development. An Employee Handbook and <u>Operating Procedures</u>14 have also been approved by the Board of Directors and serve to guide the staff to ensure that it is following proper contracting, financial assistance, and other requirements.

As noted above, the Connecticut Green Bank's Board of Directors is comprised of eleven (11) ex officio and appointed voting members and one (1) ex officio non-voting members. The leadership of the Board of Directors, includes:

- Chair Lonnie Reed
- <u>Vice Chair</u> Mary Sotos, Deputy Commissioner of DEEP/Michael Li (voted in by her/his peers
 of the Connecticut Green Bank Board of Directors);
- <u>Secretary</u> Matthew Ranelli, Partner at Shipman and Goodwin (voted in by his peers of the Connecticut Green Bank Board of Directors)
- Staff Lead Bryan Garcia, President and CEO

During FY 2020, the Board of Directors of the Connecticut Green Bank met nine (9) times, including seven (7) regularly scheduled meetings and two (2) special meetings. There was an attendance rate of 77% by the Board of Directors and 66 approved resolutions. For a link to the materials from the Board of Directors meetings that are publicly accessible – click here¹⁵.

Committees of the Board of Directors

There are four (4) committees of the Board of Directors of the Connecticut Green Bank, including:

- Audit, Compliance, and Governance
- · Budget, Operations, and Compensation
- Deployment

-

^{*}Ethics Statement: http://www.ctgreenbank.com/wp-content/uploads/2017/02/Green-Bank_Ethics-Statement-CLEAN-REVISED-102214.pdf

⁹ Ethical Conduct Policy: https://ctgreenbank.com/wp-content/uploads/2020/06/Green-Bank_Ethical-Conduct-Policy_BOD_CLEAN-REVISED-January-2020.pdf

¹⁰ Resolutions of Purposes: https://www.ctgreenbank.com/wp-content/uploads/2016/01/Financial-and-Gov.-CT-Green-Bank-Resolution-of-Purpose.pdf

¹¹ Bylaws: https://ctgreenbank.com/wp-content/uploads/2020/06/Green-Bank Revised-Bylaws 062620.pdf

¹² Joint Committee Bylaws: https://www.ctgreenbank.com/wp-content/uploads/2015/12/ECMB_CGB_loint_Committee_Bylaws_October_2014FINAL.pdf

¹³ Comprehensive Plan: https://ctgreenbank.com/wp-content/uploads/2020/07/Green-Bank_Revised-Comprehensive-Plan 062620a.pdf

¹⁴ Operating Procedures: https://ctgreenbank.com/wp-content/uploads/2020/04/Operating-Procedures 011720.pdf

¹⁵ Board of Directors meetings: http://www.ctgreenbank.com/about-us/governance/connecticut-grboard-meetings/

Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank

Audit, Compliance and Governance Committee

The Connecticut Green Bank's Audit, Compliance and Governance (ACG) Committee is comprised of three (3) ex officio and appointed voting members. The leadership of the ACG Committee includes:

- <u>Chair</u> Matthew Ranelli, Partner and Shipman and Goodwin (designated as the Chair by former Chair of the Green Bank, Commissioner Catherine Smith)
- Members 16 Tom Flynn and Mary Sotos/Mike Li

During FY 2020, the ACG Committee of the Connecticut Green Bank met five (5) time, including three (3) regularly scheduled meetings and two (2) special. There was an attendance rate of 92% by the Committee members and 9 approved resolutions. For a link to the materials from the ACG Committee meetings that are publicly accessible – click here¹⁷.

Budget, Operations, and Compensation Committee

The Connecticut Green Bank's Budget, Operations, and Compensation (BOC) Committee is comprised of three (3) ex officio and appointed voting members. The leadership of the BOC Committee, includes:

- <u>Chair</u> John Harrity, retired President of the Connecticut State Council of Machinists (designated as the Chair by former Chair of the Green Bank, Commissioner Catherine Smith)
- <u>Members</u>¹⁸ Eric Brown (designated as member of the Committee by former Chair of the Green Bank, Commissioner Catherine Smith) and Mary Sotos/Michael Li (designated as member of the Committee by herself as current Vice Chair of the Green Bank).

During FY 2020, the BOC Committee of the Connecticut Green Bank met four (4) times, including three (3) regularly scheduled meetings and one (1) special meeting. There was an attendance rate of 95% by the Committee members and 3 approved resolutions. For a link to the materials from the BOC Committee meetings that are publicly accessible – click here¹⁹.

Deployment Committee

The Connecticut Green Bank's Deployment Committee is comprised of four (4) ex officio and appointed voting members. The leadership of the Deployment Committee includes:

<u>Chair</u> - Mary Sotos, Deputy Commissioner of DEEP/Mike Li, Chief of the Bureau of Energy
Technology and Policy ²⁰ (designated as the Chair by herself/himself as Vice Chair of the Green
Bank).

¹⁶ Note – the Chair and/or Vice Chair of the Board of Directors of the Connecticut Green Bank can attend the Audit, Compliance, and Governance Committee meeting to establish a quorum.

¹⁷ ACG, B&O, Deployment Committee meetings: https://www.ctgreenbank.com/about-us/governance/connecticut-grittee-meetings/

¹⁸ Note – the Chair and/or Vice Chair of the Board of Directors of the Connecticut Green Bank can attend the Audit, Compliance, and Governance Committee meeting to establish a quorum.

¹⁹ ACG, B&O, Deployment Committee meetings: http://www.ctgreenbank.com/about-us/governance/connecticut-grittee-meetings/

²⁰ Mike Li replaced Mary Sotos effective at the 5/27/2020 meeting.

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Members - Bettina Bronisz/Steven Meier²¹ (ex officio per bylaws), Matthew Ranelli, and / Betsy Crum/Binu Chandy²² (designated as members of the Committee by former Chair of the Green Bank, Commissioner Catherine Smith)

During FY 2020, the Deployment Committee of the Connecticut Green Bank met four (4) times, including three (3) regularly scheduled meetings and one (1) special meetings. There was an attendance rate of 88% by Committee members and 8 approved resolutions. For a link to the materials from the Deployment Committee meetings that are publicly accessible – click here²³.

Joint Committee

A Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank was established pursuant to Section 16-245m(d)(2) of the Connecticut General Statutes. Per by-laws established and approved by the EEB and Connecticut Green Bank, the Joint Committee is comprised of four (4) appointed and voting members, one (1) ex officio and voting member, and four (4) ex officio and non-voting members. The leadership of the Joint Committee includes:

- <u>Chair</u> Eric Brown, Attorney with CBIA (voted in by his peers of the EEB and the Connecticut Green Bank)
- Vice Chair Mary Sotos/Mike Li²⁴, Senior Policy Advisor to DEEP
- <u>Secretary</u> Bryan Garcia (non-voting), Connecticut Green Bank, and Craig Diamond,
 Connecticut Energy Efficiency Fund (voted in by their peers of the EEB and the Connecticut Green Bank)
- Members²⁵ Bert Hunter (non-voting), and John Harrity (designated as members of the Committee by former Chair of the Green Bank, Commissioner Catherine Smith)

During FY 2020, the Joint Committee of the EEB and the Connecticut Green Bank met three (3) times, including three (3) regularly scheduled meetings and no special meetings. There was an attendance rate of 88% by the Joint Committee members and 0 approved resolutions. For a link to the materials from the Joint Committee meetings that are publicly accessible – click here²⁶.

Open Connecticut

Open Connecticut centralizes state financial information to make it easier to follow state dollars. In Connecticut, quasi-public agencies are required to submit annual reports to the legislature, including a summary of their activities and financial information. In addition, as of Public Act 19-102, quasi-public agencies are required to provide checkbook-level vendor payment data for display on Open Connecticut. The Connecticut Green Bank was among the first to voluntarily submit this information, as

²¹ Steve Meier replaced Bettina effective at the 5/27/2020 meeting.

²² With her appointment as Chair to the IPC Board, Betsy Crum effectively resigned from the Deployment. Committee. The committee met with 3 members until Binu Chandy replaced her effective at the 9/25/2019 meeting.

²³ ACG, B&O, Deployment Committee meetings: http://www.ctgreenbank.com/about-us/governance/connecticut-grittee-meetings/

 $^{^{24}}$ Mike Li replaced Mary Sotos effective at the 12/18/2019 meeting.

²⁵ Note – these members are representatives from the Connecticut Green Bank.

²⁶ Joint Committee meeting: http://www.ctgreenbank.com/about-us/governance/connecticut-grittee-meetings/

CONNECTICUT GREEN BANK 3. ORGANIZATIONAL BACKGROUND

well as employee payroll data, to the State Comptroller since the inception of Open Connecticut, and it will continue doing so to satisfy the importance of transparency and public disclosure. To access this information, click here²⁷.

Ethics and Transparency

Statement of Financial Interest

It is required by state ethics laws and a determination of the Governor's standard that senior-level staff (i.e. Director-level and above) and members of the Board of Directors annually file a Statement of Financial Interest (SFI). The Governor's standard is the following:

"Governor Malloy has established a standard which requires "filing of Annual Statements of Financial Interests by all persons in the Executive Branch and Quasi-Public Agencies who exercise (i) significant policy-making, regulatory or contractual authority; (ii) significant decision-making and/or supervisory responsibility for the review and/or award of State contracts; or (iii) significant decision-making and/or supervisory responsibility over staff that monitor State contracts."

These statements include information such as names of all associated business, income over \$1,000, a list of all real property, and a list of creditors. SFIs that have been filed are available to the public under the Freedom of Information Act. The SFIs serve two purposes. First, the financial disclosure provides a checklist or reminder to the official/employee to be mindful of potential conflicts of interest. Second, the statements serve as a tool to maximize public confidence in governmental decision making.

With respect to the 2020 SFI filing required by July 1, 2020, with a 60 day extension being granted by the Connecticut Office of State Ethics (the "OSE") pursuant to Executive Order 7M – the Connecticut Office of State Ethics received the following from the Connecticut Green Bank – see Table 2.

TABLE 2. SUMMARY OF STATE OF FINANCIAL INTEREST FILINGS WITH THE OFFICE OF STATE ETHICS FOR FY 2020

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| Cilia | Number of SFIs Submitted | % Submitted on Time |
|--------------------|-----------------------------|------------------------|
| Senior Staff | 6 | 100% |
| Board of Directors | 8 | 100% |

On July 15, 2020 the Office of State Ethics sent out their July newsletter in which they congratulated the Green Bank for being one of only forty-seven agencies to earn "the distinction of not only achieving 100% timely compliance but also had 100% submit filings electronically". The organization has received this designation in each of its first nine years of operation.

Small and Minority Business Procurement

The State of Connecticut's Supplier Diversity Program was established to ensure Connecticut small businesses have an opportunity to bid on a portion of the State's purchases. Through Fiscal Year 2015, the program required agencies and political subdivisions to set aside 25% of their annual budgets

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²⁷ Open Connecticut: http://www.osc.ct.gov/openCT/quasi.html

3. ORGANIZATIONAL BACKGROUND

for construction, housing rehabilitation, and purchasing goods and services (after approved exemptions by the Department of Administrative Services) to be awarded to certified small businesses, with 25% of this amount to be awarded to certified minority business enterprises. Although reporting is no longer required, the Connecticut Green Bank is performing this analysis to ensure we maintain our voluntarily commitment to meeting our diversity goals in procurement.

TABLE 3. SMALL BUSINESS PROCUREMENT

| Year | Goal | Actual | Percentage |
|----------|-----------------------|------------------------|------------|
| 2012 | \$59,775 | \$39,520 | 66% |
| 2013 | \$62,598 | \$59,340 | 95% |
| 2014 | \$135,320 | \$120,560 | 89% |
| 2015 | \$221,750 | \$251,980 | 113% |
| 2016 | \$238,550 | \$510,797 | 214% |
| 2017 | \$209,725 | \$379,246 | 180% |
| 2018 | \$187,142 | \$537,962 | 287% |
| 2019 | \$137,355 | \$334,575 | 244% |
| 2020 | \$143,657 | \$358,658 | 250% |
| Total | \$1,395,872 | \$2,592,638 | 186% |
| TARLE 4 | MINORITY BUSINESS F | NTERPRISE PROCUREMI | ENT |
| I ADEL T | THINOKIT I DOSINESS E | MILITERIAL LINOCONCIAI | LINI |
| Vear | Goal | Actual | Percentage |
| Year | Goal \$14 944 | Actual \$31,474 | Percentage |
| 2012 | \$14,944 | \$31,474 | 211% |
| | | | |

TABLE 4. MINORITY BUSINESS ENTERPRISE PROCUREMENT

| Year | Goal | Actual | Percentage |
|-------|-----------|-----------|------------|
| 2012 | \$14,944 | \$31,474 | 211% |
| 2013 | \$15,649 | \$52,308 | 334% |
| 2014 | \$33,830 | \$88,427 | 261% |
| 2015 | \$55,438 | \$153,319 | 277% |
| 2016 | \$9,638 | \$96,020 | 161% |
| 2017 | \$52,431 | \$107,974 | 205% |
| 2018 | \$46,785 | \$28,075 | 60% |
| 2019 | \$34,339 | \$15,423 | 45% |
| 2020 | \$35,914 | \$30,793 | 85% |
| Total | \$298,968 | \$603,813 | 202% |

Operational Efficiency

The Green Bank has significantly improved its operational efficiency with respect to reduced financial resources, real estate, and human capital to deliver more impact through the investment in and deployment of clean energy in Connecticut. As demonstrated in Table 5, since FY2012, staff has grown by 1.3 times (i.e., 9 FTEs), office space has increased by 3.4 times (i.e., 8,870 ft²), and general administration has increased by 4 times since 2012.

TABLE 5. HUMAN AND FINANCIAL RESOURCES OF THE GREEN BANK FY 2012 VS FY 2020

| | Human Res | ources | Financial Resources | | | | | | | |
|----------------|-----------|--------------------------|---------------------|--|------------------|----------------|-----------------|--|--|--|
| Fiscal Year | FTE | Office Space (ft2) | Total Expenses | General Admin & Program Admin | General Admin | SBC Revenue | RGGI Revenue | | | |
| 2012 | 29.1 | 3,626 | \$32,510,209 | \$4,532,520 | \$1,387,854 | \$27,025,088 | \$2,052,748 | | | |
| 2020 | 38 | 12,496 | \$43,747,093 | \$23,191,431 | \$5,655,738 | \$24,854,150 | \$4,581,628 | | | |
| Multiple | 1.3x | 3.4x | 1.3x | 5.12x | 4x | .91x | 2.23x | | | |

With a thirty-five percent increase in FTEs, the impact of the organization has grown significantly. Private Investment and clean energy deployment have increased over 30 and 25-fold respectively as demonstrated in Table 6.

TABLE 6. GREEN BANK IMPACT FY 2012 VS FY 2020

| | Impact | | | | | | | | |
|----------------|-----------------------|------------------------------------|---|---------------------------------------|------------------------|--|--|--|--|
| Fiscal Year | Private Investment | Clean Energy Deployment (MW) | Expected Annual Generation (MWh) | Annual Saved / Produced (MMBtu) | Job Years Supported | Annual CO2 Emissions Avoided (tons) | | | |
| 2012 | \$10,184,827 | 2.9 | 3,278 | 11,183 | 231 | 1,833 | | | |
| 2020 | \$312,779,716 | 73.3 | 94,508 | 306,383 | 3,355 | 48,402 | | | |
| Multiple | 30.7x | 25.3x | 28.8x | 27.4x | 14.5x | 26.4x | | | |

As a quasi-public organization, the Connecticut Green Bank strives to leverage its resources in attracting investment and in deploying clean energy as efficiently as possible. Reviewing the Green Bank's human capital, real estate, and expenses versus the amount of private investment and clean energy deployed shows a marked increase during the organization's first nine years of existence.

TABLE 7. GREEN BANK DEPLOYMENT EFFICIENCY FY 2012 VS FY 2020

| | Impact Delivered to Human and Financial Resources Used | | | | | | | | | |
|----------------|--|-------------------------------------|--|---|---|--|--|--|--|--|
| Fiscal Year | Private Investment / FTE | Clean Energy Deployment / FTE | Private Investment / Total Expenses | Private Investment / General Admin | Private Investment / Office Space | Clean Energy Deployment / Office Space | | | | |
| | (\$/FTE) | (kW/FTE) | | 7.44 | (\$/ft2) | (kW/ft2) | | | | |
| 2012 | \$349,994 | 100 | 0.31 | 7.34 | \$2,809 | 0.8 | | | | |
| 2020 | \$8,453,506 | 1,981 | 7.15 | 55.3 | \$25,030 | 8.9 | | | | |
| Multiple | 24.2x | 19.8x | 23.1x | 7.5x | 8.9x | 7.3x | | | | |

Workforce and Diversity

In order to achieve its mission, the Connecticut Green Bank is primarily reliant upon its most valuable asset: its people. The organization's staff is comprised of Program Staff, charged with designing and implementing products and programs that bring clean energy into the targeted markets in the state, Investment Staff, charged with tapping and leveraging efficient sources of capital, and Support Staff including marketing, legal, operations, and accounting functions.

In Fiscal Year 2020, the Green Bank added 3 new positions and eliminated one position. There were five new members hired to fill open vacancies. The organization had a turnover rate of 13%.

The Green Bank realizes that part of having a strong team is ensuring that different perspectives are included in its workforce. To that end, the Green Bank monitors the diversity of its team and, per Connecticut regulations, informs the Governor's office of this. Table 8 is the report that will be filed for the fiscal year ending June 30, 2020.

TABLE 8. GREEN BANK WORKFORCE ANALYSIS FY 2020

| Category or class | Grand Total | Total Male | Total Female | White Male | White Female | Black Male | Black Female | Hispanic Male | Hispanic Female | Other Male | Other Female |
|------------------------------|----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|------------------|--------------------|---------------|-----------------|
| ALL CATEGORIES | | | | | | | | | | | |
| Officials/Managers | 26 | 14 | 12 | 12 | 12 | 1 | 0 | 1 | 0 | 1 | 1 |
| Professionals | 8 | 0 | 8 | 0 | 7 | 0 | 1 | 0 | 0 | 0 | 0 |
| Administrative - Clerical | 4 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| TOTALS | 38 | 13 | 20 | 12 | 20 | 1 | 2 | 1 | 1 | 1 | 1 |
| FOR DISCUSSION POR | | | | | | | | | | | |

4. Measures of Success

various levels of detail. This section presents performance results across all the programs – that is, at the Green Bank portfolio level. At the highest overall objectives as well as individual program objectives. Results are reported in this document through Key Performance Indicators, which have evel, management is interested in the number of "Closed" Projects, the amount of Capital Deployed, and the amount of Clean Energy Generated. The Green Bank develops a comprehensive plan every two to three years, establishing performance targets associated with the organization's deployed funds, and clean energy generated across all of the Green Bank's programs, each of which has its own unique set of projects, funds, Table 9 below highlights these indicators. It is, of course, important to recognize that these data show the summation of numbers of projects, clean energy generation, and fossil fuel reduction. These are each presented in the later sections of this report, in the program specific presentations

TABLE 9. GREEN BANK ACTUALS VS TARGETS BY FY CLOSED²⁸

| % of Target | | %0 | %0 | 999 | 145% | 51% | 72% | 112% | 157% | 108% | %26 | | %0 | %0 | 180% |
|-------------|-----------------|------|-------|-------|-------|--------|-------|-------|--------|-------|--------|--------------------------------|-------------|---------------|---------------|
| Actual | Closed Projects | 288 | 1,114 | 2,454 | 6,488 | 7,268 | 4,898 | 6,692 | 12,150 | 9,335 | 20,687 | Capital Deployed ²⁹ | \$9,901,511 | \$111,044,476 | \$101.830.141 |
| Target | | ı | ı | 4,396 | 4,485 | 14,252 | 6,846 | 5,966 | 7,748 | 8,629 | 52,322 | | ı | ı | \$56,439,000 |
| | Fiscal Year | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total | | 2012 | 2013 | 2014 |

²⁸ Residential solar projects that receive financing also receive an incentive under the Residential Solar Incentive Program and Multifamily and Commercial Lease projects may also use C-PACE, so they are counted in each sector's results. In this document, unless we are separating out a specific program, these projects have been removed from the total to avoid double counting.

²⁹ Capital Deployment is defined by the Green Bank as the total project cost of projects financed or incentivized by the organization except for the residential programs where capital deployment only includes the amount financed.

| % of Target | 107% | 54% | %02 | 101% | 129% | 104% | %96 | | %0 | %0 | %62 | 112% | 929 | %92 | 117% | %26 | 105% | 93% |
|-------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------------|------|------|------|------|-------|------|------|------|------|-------|
| Actual | \$311,964,251 | \$316,972,579 | \$185,757,408 | \$221,289,513 | \$334,205,302 | \$309,180,206 | \$1,902,145,387 | Capacity Installed (MW) | 1.9 | 23.5 | 23.4 | 62.4 | 66.1 | 50.2 | 56.9 | 68.4 | 81.6 | 434.3 |
| Target | \$291,602,500 | \$591,131,745 | \$264,858,518 | \$218,296,752 | \$258,917,500 | \$296,910,000 | \$1,978,156,015 | Cap | I | ı | 29.6 | 55.5 | 119.5 | 66.2 | 48.6 | 72.3 | 9.77 | 469.3 |
| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |

The above metrics show that the Green Bank continues to deploy capital to new projects that lead to increased investment in and deployment of clean energy.

The following infographic illustrates the activity and impact of the Connecticut Green Bank from FY 2012 through FY 2020:







Green Bank Impact Report

deployment of clean energy to benefit families, businesses, and our communities. The impact of our green bank innovation is shown below in Since the Connecticut Green Bank's inception through the bipartisan passage of Public Act 11-80 on July 1, 2011, we have accelerated the terms of investment, economic development, and environmental protection from FY 2012 through FY 2020.

INVESTMENT IN CONNECTICUT

Investment Since inception, the Creer Bank has modified \$1.94 billion of investment into the State's aconomy.





Green Bank

Tax revenues The Green Sank's activities have helped generate an estimatec \$96.7 million in state bax evenues. Leverage ratio The Green Bank's leverage

ratio is the relationship between private investment and Green Bank investment. \$6.60



corporate taxes \$24.2 million

sales texes

For every \$1 of Oreen Bank investment, we althout \$6.50 of private investment.

ECONOMIC DEVELOPMENT

Jobs The Green Bank i as supported the creation of more than 23,000 direct, indirect, and incuced job-years.

23,387 direct, indirect and induced job years



businesses 375+

families

49% Below AMI 51% Above AM

installations to achieve income parity against Accessible and affordable The Green

area median income (AMI).

Bank has supported residential solar PV

Energy burder. The Green Bank has reduced the energy sosts on families, businesses, and our communities.

ENVIRONMENTAL PROTECTION

acce erated the growth of clean energy to more than 434 MW. Deployment The Greer Bank has

Pollution The Green Bank has helded reduce

air emissions that cause climate change

Public hoalth the Creen Bank has improved the lives of families, helping them avoid sick days, nospital visits, and even deuts.



NOX ő ğ and worsen public health, including 8.4 million pounds of SOx and which cquals. 8.9 million tons of CO₂ 9.7 million pounds of NOx.



passenger vehicles this and the second 1.7 million

ō

tree seedlings

134 million

of installed capacity



Activity

CEO, Deployment Committee, or Board of Directors, has approved the agency's investment in the project per the Comprehensive Plan and Budget. economic, and environmental benefits from these projects begin to be fully accounted and reported after they close. Table 10 below presents annual 'Closed" indicates all financial and legal documents have been executed and any additional funding has been secured. "Completion" indicates the project has closed, all construction and installation are completed, and the project is operational. The full forward-looking estimates of the energy, Approved, Closed, and Completed. "Approved" signifies that the appropriate authority within the Connecticut Green Bank, whether President & The Connecticut Green Bank tracks projects through three phases as they move through the pipeline from application through implementation project activity by these three phases.

TABLE 10. GREEN BANK PROJECT ACTIVITY BY FY CLOSED

| _ | | | | | | | | | | |
|-------------|------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Completed | 18 | 692 | 1,205 | 3,947 | 6,539 | 5,425 | 5,896 | 7,196 | 7,327 | 41,313 |
| Closed | 288 | 1,114 | 2,454 | 6,488 | 7,268 | 4,898 | 6,692 | 12,150 | 9,335 | 20,687 |
| Approved | 288 | 1,139 | 2,814 | 7,429 | 8,064 | 5,855 | 7,673 | 13,065 | 10,350 | 56,677 |
| Fiscal Year | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |

Further demonstration of the organization's reach can be seen in the number of multi-family units impacted by closed projects each Summary by fields such as "Number of projects" does not capture the extent of the organization's activities in a year as different projects have different sizes. year in Table 11

TABLE 11. GREEN BANK NUMBER OF MULTIFAMILY HOUSING UNITS IMPACTED BY FY CLOSED

| Fiscal Year | Affordable | Market Rate | Total |
|-------------|------------|-------------|-------|
| 2012 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 |
| 2014 | 120 | 0 | 120 |
| 2015 | 326 | 82 | 408 |
| 2016 | 1,576 | 191 | 1,767 |

| 2017 | 1,435 | 100 | 1,535 | |
|-------|-------|-----|-------|--|
| 2018 | 1,792 | 0 | 1,792 | |
| 2019 | 2,049 | 132 | 2,181 | |
| 2020 | 1,170 | 114 | 1,284 | |
| Total | 8,468 | 619 | 280'6 | |

Capital Deployed

Clean Energy Investment

Connecticut's green energy economy, to decrease reliance on public funds over time, and expand the scale of clean energy investments in the The Connecticut Green Bank's intent, stated in the Comprehensive Plan, is to use public funds to attract multiples of private investment into state. Table 12, through Table 14 show activity to date on this subject.

TABLE 12. GREEN BANK CLEAN ENERGY INVESTMENT BY SOURCE - PUBLIC AND PRIVATE BY FY CLOSED

| Fiscal Year | CGB Investment | Private Investment | Total Investment |
|-------------|----------------|--------------------|------------------|
| 2012 | \$3,401,642 | \$6,499,869 | \$9,901,511 |
| 2013 | \$18,460,123 | \$92,681,093 | \$111,141,216 |
| 2014 | \$31,843,733 | \$75,305,819 | \$107,149,552 |
| 2015 | \$57,640,046 | \$265,148,965 | \$322,789,011 |
| 2016 | \$39,980,412 | \$283,008,108 | \$322,988,520 |
| 2017 | \$33,112,477 | \$157,740,303 | \$190,852,780 |
| 2018 | \$32,742,386 | \$198,890,921 | \$231,633,307 |
| 2019 | \$40,306,649 | \$297, 122,070 | \$337,428,719 |
| 2020 | \$36,753,538 | \$275,717,821 | \$312,471,359 |
| Total | \$294,241,006 | \$1,652,114,970 | \$1,946,335,975 |

Table 12 shows the average total investment of public and private funds per project, by fiscal year, and in total. In reviewing the results from year to year it is important to note that the mix, size, and financial requirements of projects differ significantly across the program portfolio offered by the Green Bank.

TABLE 13. GREEN BANK ACTUALS BY FY CLOSED

| CPACE | | | | | | Closed Projects | ojects | | | | |
|--|----------------|---------------|---------------------|----------------|----------------------|-----------------|-------------------------|---------------|---------------|--------------|---------------|
| 3 1,109 3 1,109 3 1,109 3 1,109 3 1,109 3 1,109 3 1,109 3 1,109 3 1,109 1,109 3 1,109 3 1,109 3 1,109 4,465 1,109 4,465 1,109 1 | Fiscal Year | CPACE | Commercial Lease | Solar Lease | Residential Solar | Smart-E | Low Income Leases | Multi-Family | Solar Loan | AD & CHP | Strategic |
| 23 107 2382 143 1 49 16 610 6,397 278 4 7 53 27 472 6,804 221 343 31 58 30 27 4455 522 669 19 66 29 5202 1,749 656 19 66 29 6,955 832 849 19 66 29 6,955 832 849 19 66 29 6,955 832 849 19 455 6 7,221 737 893 14 455 6 7,221 737 893 14 51512,144 8 41,523 87,924 14 14 520,280,126,14 \$23,486,16 \$7,924 \$7,823 \$14 511,817,144 \$24,324,454 \$7,823,66 \$7,924 \$14 \$1,626,736,126 \$13,406,50 \$2,140,10 \$1,924 <td>2012</td> <td></td> <td></td> <td></td> <td>288</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | 2012 | | | | 288 | | | | | | |
| 23 107 2.382 143 4 1 49 16 610 6.397 278 4 7 53 27 472 6.804 221 343 31 38 30 27 4,465 522 669 19 66 29 5202 1,749 666 19 45 6 6 5202 1,749 666 19 45 6 7 221 343 19 19 6,956 832 849 19 19 19 19 19 6,956 832 1446 522 669 14 | 2013 | က | | | 1,109 | က | | | 3 | 2 | - |
| 49 16 610 6.397 278 4 7 53 27 472 6.904 221 343 31 98 30 4465 520 1,740 6660 19 66 29 6.956 882 849 19 45 6 7.921 737 807 18 45 6 7.921 737 807 14 81512.144 127 1,189 41,523 4,486 5,280 114 81512.144 127 1,189 41,523 4,486 114 14 144 1485 114 144 1485 114 144 1485 114 144 1485 1485 114 144 1485 1485 148 144 1485 148 144 1485 1485 148 144 1485 1485 148 148 148 148 1485 1485 148 148 148 | 2014 | 23 | | 107 | 2,382 | 143 | | , | 140 | - | |
| 63 27 472 6,804 221 343 31 66 29 4,465 522 669 19 66 29 6,202 1,749 666 19 45 6 29 6,265 849 19 45 6 7,221 737 807 18 45 6 7,221 7,37 807 18 45 6 7,221 7,37 807 18 45 6 7,221 7,37 807 18 51,512,144 8 7,324 7,485 8,71,224 7,420 \$53,71,6,566 \$11,547,562 \$23,672,503 \$214,705,219 \$7,634,607 \$40,005,715 \$15,487,305 \$18,325,441 \$218,107,091 \$7,634,623,90 \$30,174,76 \$10,954,177 \$21,482,780 \$13,287,414 \$21,407,607 \$11,326,902 \$21,404,602 \$21,403,602 \$21,404,602 \$21,482,602 \$13,404,002 \$13,404,002 | 2015 | 49 | 16 | 610 | 6,397 | 278 | 4 | 7 | 136 | 2 | 2 |
| 38 30 4,465 522 669 19 66 29 5,202 1,749 656 19 45 6 6 982 849 19 45 6 6 7,921 737 807 18 315 127 1,189 41,523 4,485 3,288 114 \$1,51,785,167 127 1,189 41,523 4,485 3,288 114 \$1,12,144 11,189 41,523 4,485 3,288 114 \$23,716,566 \$11,547,562 \$23,612,513 \$1,63,425 \$1,40,307,091 \$1,45,324,55 \$1,40,307,091 \$1,45,326,307 \$1,40,307,091 \$1,45,326,309 \$1,40,307,091 \$1,45,326,309 \$1,40,307,091 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,307 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,207 \$1,40,40,40,207 \$1,40, | 2016 | 53 | 27 | 472 | 6,804 | 221 | 343 | 31 | | - | |
| 66 29 5,202 1,749 656 19 36 19 6,955 832 849 19 45 6 7,921 737 849 19 315 127 1,189 41,523 4,485 3,328 114 Total Investment Total Investment Total Investment \$1,512,144 \$4,324,454 \$73,565,603 \$71,924 144 \$21,785,167 \$4,324,454 \$73,565,603 \$24,485,607 \$40,20,000 \$33,716,566 \$16,711,392 \$18,73,65,603 \$24,485,607 \$40,306,715 \$40,000,715 \$15,487,305 \$16,711,392 \$18,107,091 \$10,487,16 \$18,244,561 \$10,895,17 \$26,732,114 \$24,992,210 \$140,1807,05 \$11,544,201 \$24,103,456 \$10,894,252 \$21,489,202 \$10,489,564 \$11,544,201 \$20,449,252 \$20,498,247 \$21,480,788 \$11,544,201 \$20,449,252 \$20,498,247 \$13,496,202 | 2017 | 38 | 30 | | 4,465 | 522 | 699 | 19 | | 1 | - |
| 38 19 6,955 832 849 19 45 6 6 7,921 737 807 18 315 127 1,189 41,523 4,486 3,328 114 \$1512,144 Total Inversement \$21,785,167 \$4324,454 \$73,853,663 \$71,924 \$420,000 \$33,716,566 \$11,547,562 \$23,672,563 \$214,705,219 \$71,624 \$76,3426 \$709,380 \$6,282,061 \$36,728,026 \$11,547,562 \$23,672,563 \$214,705,219 \$71,624 \$71,626 \$71,626 \$71,626 <td>2018</td> <td>99</td> <td>29</td> <td></td> <td>5,202</td> <td>1,749</td> <td>959</td> <td>19</td> <td></td> <td>4.0</td> <td></td> | 2018 | 99 | 29 | | 5,202 | 1,749 | 959 | 19 | | 4.0 | |
| 45 6 | 2019 | 38 | 19 | | 6,955 | 832 | 849 | 19 | | 200 | - |
| \$15 127 | 2020 | 45 | 6 | | 7,921 | 737 | 807 | 18 | 16 | | 2 |
| Total Investment \$1,512,144 \$9,901,511 \$9,901,511 \$2,496,507 \$420,000 \$21,785,167 \$1,547,562 \$23,6426,043 \$71,924 \$420,000 \$33,716,566 \$11,547,562 \$23,672,593 \$214,705,219 \$7,663,425 \$400,380 \$6,282,061 \$33,716,566 \$16,711,392 \$18,325,441 \$214,705,219 \$7,663,425 \$10,693,380 \$6,282,061 \$15,487,305 \$18,225,441 \$214,705,219 \$7,663,425,176 \$10,895,117 \$20,495,210 \$10,895,117 \$26,732,114 \$24,992,210 \$149,130,705 \$34,175,021 \$18,244,551 \$9,493,247 \$27,1482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$27,184,962,202 \$102,563,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$1 0.1 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0< | Total | 315 | 127 | | 41,523 | 4,485 | 3,328 | 114 | 279 | 7 | 7 |
| \$1,512,144 \$21,785,167 \$21,785,187 \$22,885,187 \$23,885,187 \$24,885,187 \$24,885,187 \$24,885,187 \$24,885,187 \$24,885,187 \$24,885,187 \$24,885,187 \$24,885 | | | | | | Total Inves | stment | | | | |
| \$1,512,144 \$21,785,167 \$21,785,187 \$21,785 | 2012 | | | | \$9,901,511 | | | 1637 | | | |
| \$21,785,167 | 2013 | \$1,512,144 | | | \$35,426,043 | \$71,924 | | 2 | \$91,924 | \$3,189,000 | \$70,800,000 |
| \$33,716,566 \$11,547,562 \$23,672,593 \$214,705,219 \$7,663,425 \$109,380 \$6,282,061 \$36,728,026 \$16,711,392 \$18,325,441 \$218,107,091 \$6145,939 \$9,817,459 \$34,005,715 \$15,487,305 \$34,877,16 \$18,326,615 \$10,895,117 \$10,895,117 \$10,895,117 \$26,732,114 \$24,982,210 \$149,130,705 \$34,175,021 \$18,244,551 \$9,493,247 \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$21,482,789 \$21,19,145 \$225,505,360 \$11,544,201 \$20,449,252 \$9,305,699 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 | 2014 | \$21,785,167 | | \$4,324,454 | \$73,853,653 | \$2,486,507 | 2 | \$420,000 | \$4,461,833 | \$6,300,000 | |
| \$15,487,305 \$18,325,441 \$218,107,091 \$6,145,939 \$9,817,459 \$34,005,715 \$15,487,305 \$34,878,766 \$120,797,529 \$10,748,716 \$18,326,615 \$10,895,117 \$26,732,114 \$24,992,210 \$149,130,705 \$34,175,021 \$18,244,551 \$9,493,247 \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$21,482,788 \$11,704,370 \$210,489,564 \$11,544,201 \$20,449,252 \$9,305,699 \$21,482,789 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 0.1 | 2015 | \$33,716,566 | \$11,547,562 | \$23,672,593 | \$214,705,219 | \$7,663,425 | \$109,380 | \$6,282,061 | \$4,505,386 | \$642,578 | \$56,500,000 |
| \$15,487,305 \$34,878,766 \$120,797,529 \$10,748,716 \$18,326,615 \$10,895,117 \$26,732,114 \$24,992,210 \$149,130,705 \$34,175,021 \$18,244,551 \$9,493,247 \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$27,518,093 \$2,719,145 \$235,505,360 \$11,544,201 \$20,449,252 \$9,305,699 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$184,962,202 \$100,000 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 | 2016 | \$36,728,026 | \$16,711,392 | \$18,325,441 | \$218,107,091 | \$6,145,939 | \$9,817,459 | \$34,005,715 | | \$10,500,000 | |
| \$26,732,114 \$24,992,210 \$149,130,705 \$34,175,021 \$18,244,551 \$9,493,247 \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$27,518,093 \$2,719,145 \$235,505,360 \$11,544,201 \$20,449,252 \$9,305,699 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 0.1 1.9 1.9 1.9 1.9 1.9 1.0 1.0 7.3 0.0 7.9 0.0 1.0 1.0 1.0 6.4 3.5 4.9 487 1.3 0.0 1.0 7.3 1.16 3.8 53.3 1.0 2.2 1.3 7.3 1.16 3.4 4.2 2.3 | 2017 | \$15,487,305 | \$34,878,766 | | \$120,797,529 | \$10,748,716 | \$18,326,615 | \$10,895,117 | | \$3,401,392 | \$4,538,212 |
| \$21,482,788 \$11,704,370 \$210,489,564 \$11,336,982 \$24,863,979 \$32,789,800 \$27,518,093 \$2,719,145 \$210,489,564 \$11,544,201 \$20,449,252 \$9,305,699 \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$1.84,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 \$1.84,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$1.94 | 2018 | \$26,732,114 | \$24,992,210 | | \$149,130,705 | \$34,175,021 | \$18,244,551 | \$9,493,247 | | | |
| \$27,518,093 | 2019 | \$21,482,788 | \$11,704,370 | | \$210,489,564 | \$11,336,982 | \$24,863,979 | \$32,789,800 | | | \$6,503,800 |
| \$184,962,202 \$102,553,445 \$46,322,488 \$1,267,916,674 \$84,172,715 \$91,811,236 \$103,191,639 0.1 Capacity Installed (MW) 3.6 T.9 0.0 7.9 0.0 1.0 7.3 0.8 17.1 0.3 1.0 1.0 6.4 3.5 4.9 48.7 1.3 0.0 1.0 7.3 11.6 3.8 53.3 1.0 2.2 1.3 7.3 11.6 3.8 53.3 1.0 2.2 1.3 | 2020 | \$27,518,093 | \$2,719,145 | U | \$235,505,360 | \$11,544,201 | \$20,449,252 | \$9,305,699 | | | \$20,738,702 |
| Capacity Installed (MW) 0.1 1.9 Capacity Installed (MW) 3.6 7.9 0.0 7.9 7.3 0.8 17.1 0.3 1.0 6.4 3.5 4.9 48.7 1.3 0.0 1.0 7.3 11.6 3.8 53.3 1.0 2.2 1.3 7.3 11.6 34.8 1.3 4.2 2.3 | Total | \$184,962,202 | \$102,553,445 | \$46,322,488 | \$1,267,916,674 | \$84,172,715 | \$91,811,236 | \$103,191,639 | \$9,059,143 | \$24,032,970 | \$159,080,714 |
| 3.6 7.9 0.0 7.9 0.0 7.9 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.3 1.0 1.3 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Capacity Insta</td> <td>alled (MW)</td> <td></td> <td></td> <td></td> <td></td> | | | | | | Capacity Insta | alled (MW) | | | | |
| 3.6 7.9 0.0 7.9 0.0 7.3 0.8 17.1 0.3 1.3 1.0 1.0 6.4 3.5 4.9 48.7 1.3 0.0 1.0 1.0 7.3 11.6 3.48 1.3 4.2 2.3 | 2012 | | | | 1.9 | | | | | | |
| 7.3 0.8 17.1 0.3 1.0 1.0 6.4 3.5 4.9 48.7 1.3 0.0 1.0 3.9 5.5 3.8 53.3 1.0 2.2 1.3 7.3 11.6 34.8 1.3 4.2 2.3 | 2013 | | | | | 0.0 | | | 0.0 | 0.7 | 14.8 |
| 6.4 3.5 4.9 48.7 1.3 0.0 1.0 3.9 5.5 3.8 53.3 1.0 2.2 1.3 7.3 11.6 34.8 1.3 4.2 2.3 | 2014 | | | 0.8 | 17.1 | 0.3 | | | 1.1 | 3.0 | |
| 3.9 5.5 3.8 53.3 1.0 2.2 1. 7.3 11.6 34.8 1.3 4.2 2. | 2015 | | 3.5 | 4.9 | 48.7 | 1.3 | 0.0 | 1.0 | 1.1 | 0.1 | 5.0 |
| 7.3 11.6 34.8 1.3 4.2 2 | 2016 | 3.9 | 5.5 | 3.8 | 53.3 | 1.0 | 2.2 | | | 1.0 | |
| | 2017 | 7.3 | 11.6 | | 34.8 | 1.3 | 4.2 | 2.3 | | 0.8 | 0.2 |

| | | | | | Closed Projects | ojects | | | | |
|--------|--------|------------|-------|-------------|-----------------|--------|----------|-------|-------------|-------------|
| Fiscal | о С | Commercial | Solar | Residential | n trems | Low | M: H: F: | Solar | 0 7 8 | o isotest S |
| 2018 | 5.2 | 8.1 | Lease | 42.4 | 3.9 | 4.4 | 0.1 | Logii | AD & CIL | अवस्त्रीत |
| 2019 | 6.1 | 3.6 | | 59.3 | 0.9 | 6.0 | 0.4 | | | 1.0 |
| 2020 | 39.9 | 0.8 | | 66.3 | 1.0 | 5.1 | 2.0 | | | 7.7 |
| Total | 0.1 | 33.1 | 9.6 | 331.7 | 9.7 | 21.9 | 7.1 | 2.2 | 5.6 | 28.7 |

TABLE 14. GREEN BANK CLEAN ENERGY PROJECTS - AVERAGE PUBLIC AND PRIVATE INVESTMENTS BY FY CLOSED

| Fiscal Year | Average Investment |
|-------------|-----------------------|
| 2012 | \$34,380 |
| 2013 | \$99,768 |
| 2014 | \$43,663 |
| 2015 | \$49,752 |
| 2016 | \$44,440 |
| 2017 | \$38,965 |
| 2018 | \$34,613 |
| 2019 | \$43,188 |
| 2020 | \$35,830 |
| Total | \$47,178 |

Leverage Ratio

The table below shows in ratio form the extent to which public monies are driving private investment into the Green Bank's programs and the clean energy economy. The Green Bank's "leverage ratio," as it is commonly referenced, is calculated by dividing the total monies available in each period – here the Green Bank's fiscal year periods – by the amount of public investment. Table 15 presents these ratios by fiscal year and the Green Bank's program categories. The increases in leverage over time illustrate the success of the Green Bank model at crowding in private capital and making limited public funds go further.

TABLE 15. GREEN BANK SECTOR LEVERAGE RATIOS BY FY CLOSED

| Fiscal Year | Commercial | Infrastructure | Residential | Strategic | Total |
|-------------|------------|----------------|-------------|-----------|-------|
| 2012 | 0.0 | 2.9 | 0.0 | 0.0 | 2.9 |
| 2013 | 3.8 | 3.2 | 24.8 | 12.2 | 6.0 |
| 2014 | 2.2 | 3.9 | 10.0 | 0.0 | 3.4 |
| 2015 | 2.6 | 6.5 | 4.0 | 17.5 | 5.6 |
| 2016 | 4.5 | 11.0 | 8.1 | 0.0 | 8.1 |
| 2017 | 4.7 | 10.3 | 4.3 | 1.2 | 5.8 |
| 2018 | 4.9 | 11.7 | 6.0 | 0.0 | 7.1 |
| 2019 | 5.1 | 13.1 | 8.2 | 5.4 | 8.4 |
| 2020 | 6.5 | 14.0 | 4.5 | 3.1 | 8.5 |
| Total | 4.1 | 8.7 | 5.9 | 7.6 | 6.6 |

Clean Energy Produced and Avoided Energy Use

The data below present the clean energy outputs of the projects supported by the Green Bank. Data are presented as electric capacity (MW), electricity production (MWh), and Energy Saved or Produced (MMBtu) – see Table 16.

Table 16. Green Bank Installed Capacity, Estimated Generation and Energy Saved and/or Produced by FY Closed³⁰

| | | Es | timated Generation | on (MWh) | Energy | Saved/Produce | ed (MMBtu) ³¹ |
|----------------|-------|-----------|------------------------|--|-----------|---------------|---|
| Fiscal Year | MW | Annual | Lifetime ³² | Lifetime Clean Energy Produced (kWh) / Green Bank Investment (\$) | Annual | Lifetime | Green Bank Investment (\$) / Lifetime Combined Energy Generated & Saved (MMBtu) |
| 2012 | 1.9 | 2,210 | 55,238 | 16.2 | 7,539 | 188,473 | 18.0 |
| 2013 | 23.5 | 131,562 | 1,479,588 | 80.2 | 463,269 | 5,266,792 | 3.5 |
| 2014 | 23.4 | 51,587 | 995,402 | 31.3 | 244,875 | 4,499,982 | 7.1 |
| 2015 | 62.4 | 209,713 | 3,428,675 | 59.5 | 704,744 | 11,429,646 | 5.0 |
| 2016 | 66.1 | 91,974 | 2,115,043 | 52.9 | 339,461 | 7,535,281 | 5.3 |
| 2017 | 50.2 | 71,734 | 1,673,331 | 50.5 | 536,298 | 9,768,767 | 3.4 |
| 2018 | 56.9 | 78,352 | 1,882,254 | 57.5 | 264,852 | 6,109,576 | 5.4 |
| 2019 | 68.4 | 213,758 | 3,687,456 | 91.5 | 287,647 | 6,703,779 | 6.0 |
| 2020 | 81.6 | 178,565 | 3,260,397 | 88.7 | 354,254 | 7,995,948 | 4.6 |
| Total | 434.3 | 1,029,455 | 18,577,385 | 63.1 | 3,202,939 | 59,498,245 | 4.9 |

Clean Energy Technology Deployment

The Connecticut Green Bank takes a technology-agnostic approach to its financing products, and therefore will consider any commercially available technology that meets eligibility guidelines.

³⁰ Residential solar projects that receive financing also receive an incentive under the Residential Solar Incentive Program and Multifamily and Commercial Lease projects may also use C-PACE, so they are counted in each sector's results. These projects have been removed from the total to avoid double counting.

³¹ The MMBTU's include those forecast to be saved from green bank energy efficiency projects and the forecast MWh from generation projects converted to MMBTU's.

³² The lifetime numbers are based on the aggregation of projects' impact for one year multiplied by the useful life of the technology for each project

Table 17 presents the number of projects by technology and



Table 18 by project type by FY closed.

Clean energy means solar photovoltaic energy, solar thermal, geothermal energy, wind, ocean thermal energy, wave or tidal energy, fuel cells, landfill gas, hydropower that meets the low-impact standards of the Low-Impact Hydropower Institute, hydrogen production and hydrogen conversion technologies, low emission advanced biomass conversion technologies, alternative fuels, used for electricity generation including ethanol, biodiesel or other fuel produced in Connecticut and derived from agricultural produce, food waste or waste vegetable oil, provided the Commissioner of Energy and Environmental Protection determines that such fuels provide net reductions in greenhouse gas emissions and fossil fuel consumption, usable electricity from combined heat and power systems with waste heat recovery systems, thermal storage systems, other energy resources and emerging technologies which have significant potential for commercialization and which do not involve the combustion of coal, petroleum or petroleum products, municipal solid waste or nuclear fission, financing of energy efficiency projects, projects that seek to deploy electric, electric hybrid, natural gas or alternative fuel vehicles and FOR DISCUSSION PURPOSES ONLY associated infrastructure, any related storage, distribution, manufacturing technologies or facilities and any Class I renewable energy source, as defined in section 16-1.33

³³ https://www.cga.ct.gov/current/pub/chap 277.htm#sec 16-1, updated by Connecticut Public Act 11-80

Table 17. Green Bank Projects by Technology 34 by FY Closed 35

| | | | | | | | | | _ | | | | | | | | | | | | | |
|------------------|---------------|------|-------|-------|-------|-------|-------|-------|--------|-------|--------|----|------|------|------|------|------|------|------|------|------|-------|
| Total | | 288 | 1,114 | 2,454 | 6,488 | 7,268 | 4,898 | 6,692 | 12,150 | 9,335 | 50,687 | | 1.9 | 23.5 | 23.4 | 62.4 | 66.1 | 50.2 | 56.9 | 68.4 | 81.6 | 434.3 |
| Other/ None | | 0 | 0 | 9 | 6 | 3 | 10 | 26 | 19 | 20 | 93 | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.0 | 0.4 |
| Wind | | 0 | 0 | 0 | ٦ | 0 | 0 | 0 | 0 | 0 | 1 | | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Solar Thermal | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ΡV | | 288 | 1,107 | 2,341 | 6,335 | 7,129 | 4,497 | 5,312 | 7,054 | 8,060 | 42,123 | 0 | 1.9 | 8.0 | 20.4 | 55.6 | 65.1 | 49.0 | 56.9 | 66.5 | 72.5 | 396.0 |
| Hydro | cts | 0 | 0 | 0 | - | 0 | 1 | 0 | | 1 | 4 | | 0.0 | 0:0 | 0:0 | 6.0 | 0:0 | 0.2 | 0.0 | 1.0 | 6.0 | 3.0 |
| Geo | # of Projects | 0 | 0 | 2 | 2 | 8 | 7 | 5 | 10 | 14 | 48 | MM | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell | | 0 | _ | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | | 0.0 | 14.8 | 0:0 | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 22.6 |
| Ш | | 0 | 4 | 104 | 135 | 125 | 382 | 1,349 | 5,064 | 1,237 | 8,400 | | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CHP | | 0 | 2 | - | 4 | 1 | 1 | 0 | 2 | 0 | 11 | | 0.0 | 7.0 | 3.0 | 0.3 | 0.0 | 8.0 | 0.0 | 9.0 | 0.0 | 5.3 |
| Bio mass | | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | ı | | 0.0 | 0.0 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| AD | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 |
| Fiscal Year | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Total |

³⁴ Commercial and Residential projects can be a combination of RE and EE measures. Therefore the data presented includes the EE generation for those projects, but it is assigned to the applicable RE technology.

^{35 98%} of RSIP projects are accompanied by energy efficiency measures. These are typically identified during the required energy assessment required by the program. See the Residential Solar Investment Program case study for more information.

| Fiscal Year | AD | Bio mass | CHP | Ш | Fuel Cell | Geo | Hydro | δ | Solar Thermal | Wind | Other/ None | Total |
|----------------|---------|-------------|---------|-----------|----------------|------------|---|------------|------------------|---------|----------------|------------|
| | | | | | Expected Lifet | ime Saving | Expected Lifetime Savings or Generation (MWh) | MWh) | | | | |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55,238 | 0 | 0 | 0 | 55,238 |
| 2013 | 0 | 0 | 81,008 | 4,862 | 1,166,832 | 0 | 0 | 226,886 | 0 | 0 | 0 | 1,479,588 |
| 2014 | 0 | 0 | 354,780 | 59,724 | 0 | 61 | 0 | 580,837 | 0 | 0 | 0 | 995,402 |
| 2015 | 0 | 0 | 31,930 | 1,591,514 | 0 | 61 | 6/2'96 | 1,590,331 | 0 | 118,260 | 0 | 3,428,675 |
| 2016 | 106,171 | 0 | 0 | 114,367 | 0 | 712 | 0 | 1,893,138 | 655 | 0 | 0 | 2,115,043 |
| 2017 | 0 | 0 | 94,017 | 87,756 | 0 | 584 | 20,711 | 1,470,263 | 0 | 0 | 0 | 1,673,331 |
| 2018 | 0 | 0 | 0 | 174,569 | 0 | 236 | 0 | 1,707,449 | 0 | 0 | 0 | 1,882,254 |
| 2019 | 0 | 0 | 65,197 | 1,531,543 | 0 | 512 | 107,063 | 1,983,141 | 0 | 0 | 0 | 3,687,456 |
| 2020 | 31,536 | 0 | 0 | 359,766 | 618,106 | 628 | 6296 | 2,153,782 | 0 | 0 | 0 | 3,260,397 |
| Total | 106,171 | 0 | 626,932 | 3,924,100 | 1,201,522 | 2,793 | 320,932 | 11,661,067 | 929 | 118,260 | 0 | 18,577,385 |

deployed are from solar PV. When comparing deployment to clean energy production, solar PV produces the most energy (65% of all clean energy Program (RSIP). RSIP-wide, energy assessments have been performed for an estimated 98% of completed RSIP projects, of which approximately efficiency is saving energy (22% from energy savings). The Green Bank also supports additional deployment of energy efficiency not captured in overall. If the Green Bank were to include residential energy assessments (or audits) in the number of projects supported through its residential Solar PV deployment makes up the largest portion of Connecticut Green Bank's projects by technology; about 83% of all clean energy projects 87% were performed through the utility-administered Home Energy Solutions (HES) program or via the DOE Home Energy Score (DOE HES) the above tables by requiring an energy assessment for all residential solar PV projects incentivized through the Residential Solar Investment production), fuel cells also contribute a large proportion given the efficiency of the technology (7% of all clean energy production), and energy solar PV program, then nearly 55% of all projects are energy efficiency

TABLE 18. GREEN BANK PROJECT TYPES BY FY CLOSED³⁶

| Fiscal Year | EE | RE | RE/EE | Other/None | Total |
|----------------|-----------|-------------------------|--------------|-------------|-----------------------------|
| | | # of P | rojects | | |
| 2012 | 0 | 288 | 0 | 0 | 288 |
| 2013 | 4 | 1,109 | 1 | 0 | 1,114 |
| 2014 | 104 | 2,337 | 7 | 6 | 2,454 |
| 2015 | 135 | 6,266 | 78 | 9 | 6,488 |
| 2016 | 124 | 6,903 | 238 | 3 | 7,268 |
| 2017 | 382 | 4,003 | 504 | 9 | 4,898 |
| 2018 | 1,346 | 4,785 | 535 | 26 | 6,692 |
| 2019 | 5,063 | 6,405 | 664 | 18 | 12,150 |
| 2020 | 1,237 | 7,303 | 778 | 17 | 9,335 |
| Total | 8,395 | 39,399 | 2,805 | 88 | 50,687 |
| | | M | ıw | | 1.9 23.5 23.4 62.4 |
| 2012 | 0.0 | 1.9 | 0.0 | 0.0 | 1.9 |
| 2013 | 0.0 | 23.4 | 0.1 | 0.0 | 23.5 |
| 2014 | 0.0 | 22.8 | 0.6 | 0.0 | 23.4 |
| 2015 | 0.0 | 60.5 | 1.8 | 0.0 | 62.4 |
| 2016 | 0.0 | 63.9 | 2.2 | 0.0 | 66.1 |
| 2017 | 0.0 | 46.3 | 3.9 | 0.0 | 50.2 |
| 2018 | 0.0 | 51.7 | 5.2 | 0.0 | 56.9 |
| 2019 | 0.0 | 63.3 | 5.1 | 0.0 | 68.4 |
| 2020 | 0.0 | 74.9 | 6.7 | 0.0 | 81.6 |
| Total | 0.0 | 408.7 | 25.6 | 0.0 | 434.3 |
| | | Expected Lifetime Savir | ngs or Gener | ation (MWh) | |
| 2012 | 0 | 55,238 | 0 | 0 | 55,238 |
| 2013 | 4,862 | 1,471,851 | 2,875 | 0 | 1,479,588 |
| 2014 | 59,724 | 918,040 | 17,638 | 0 | 995,402 |
| 2015 | 1,591,514 | 1,783,049 | 54,113 | 0 | 3,428,675 |
| 2016 | 114,367 | 1,914,099 | 86,577 | 0 | 2,115,043 |
| 2017 | 87,756 | 1,428,478 | 157,096 | 0 | 1,673,331 |
| 2018 | 174,246 | 1,503,157 | 204,851 | 0 | 1,882,254 |
| 2019 | 1,531,543 | 1,938,168 | 217,745 | 0 | 3,687,456 |
| 2020 | 359,766 | 2,555,124 | 345,507 | 0 | 3,260,397 |
| Total | 3,923,778 | 13,567,205 | 1,086,402 | 0 | 18,577,385 |

³⁶ Note that projects that are part of the Residential Solar Investment Program have an EE component not reflected in this table.

The Green Bank Model

Assets - Current and Non-Current

The Connecticut Green Bank's successful shift to a financing model from one formerly driven by grants and subsidies is evidenced by a net positive change in assets since its inception. The growth of the Green Bank's financing programs has led to a steady increase in non-current assets over time as more and more loans and leases are closed. Since 2012, the Green Bank's balance sheet has grown by a factor of 2.3x representing the value of it investments.

Table 19. Current and Non-Current Assets

| | | | | | ear Ended June 3 | | | | |
|--|-----------------------|---------------|---------------|----------------|--------------------|----------------|---------------|--------------------|--------------|
| | 2020 | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
| Current Assets | | | | | | | | | |
| Cash and cash equivalents | \$ 8,1 56,09 3 | \$ 18,947,214 | \$ 19,830,102 | \$ 37,148,283 | \$ 48,072,061 | \$ 39,893,649 | \$ 71,411,034 | \$ 68,105,014 | \$64,672,910 |
| Receivables | 7,763,578 | 6,673,735 | 5,036,838 | 3,682,469 | 4,531,258 | 2,867,233 | 8,253,318 | 4,545,661 | 3,305,301 |
| Prepaid expenses and other assets | 1,925,122 | 1,846,104 | 1,847,848 | 10,012,025 | 4,245,806 | 1,030,251 | 61 9, 639 | 520,814 | 350,302 |
| Contractor loans | | | | | 2,272,906 | 3,112,663 | | | |
| Current portion of prepaid warranty management | 259,148 | 259,148 | 259,148 | | | | | | |
| Current portion of solar lease notes | 967,530 | 942,056 | 908,541 | 869,831 | 845,479 | 803,573 | 766,086 | 704,032 | 670,645 |
| Current portion of SBEA Promissory Notes | 1,549,492 | 1,709,491 | | | | | | | |
| Current portion of program loans | 3,756,932 | 3,756,932 | 2,138,512 | 1,910,048 | 1,378,242 | 10,264,825 | 652,447 | | |
| Total Current Assets | 24,377,895 | 34,134,680 | 30,020,989 | 53,622,656 | 61,345,752 | 57,972,194 | 81,702,524 | 73,875,521 | 68,999,158 |
| Noncurrent Assets | | | | | | | | | |
| Partfolio investments | 1 | 1 | 1 | 1 | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 | 2,155,525 |
| Fair Value of interest rate swap | = | | 171,478 | | - 1 | - H | | | |
| Bonds receivable | 3,031,134 | 3,288,656 | 3,328,530 | 3,328,530 | 3,492,282 | 1,600,000 | 1,600,000 | | |
| Prepaid warranty management, less current portion | 3,725,735 | 3,984,883 | 4,234,756 | | | | - | | |
| Solar lease notes - less current portion | 3,979,704 | 5,361,206 | 6,358,184 | 7,242,822 | 8,162,635 | 9,015,437 | 9,778,315 | 10,536,136 | 11,064,879 |
| SBEA Promissory Notes - less current portion | 1,334,8 0 8 | 1,799,007 | | - | | | | | |
| Program loans - less current portion | 81,536,836 | 64,800,014 | 43,525,021 | 40,296,113 | 31,889,275 | 30,253,119 | 12,750,457 | 3,788, 09 4 | |
| Renewable energy credits | 407,360 | 468,736 | 547,556 | 654,767 | 812,770 | 933, 054 | 1,069,390 | 1,217,491 | 1,324,614 |
| Capital assets, net of depreciation and amortization | 79,971,996 | 80,523,040 | 73,417,221 | 61,510,207 | 58,114,914 | 26,971,087 | 3,074,337 | 362,505 | 91,329 |
| Asset retirement obligation, net | | | - | 2,535,104 | 2,261,472 | 1,029,196 | | | |
| Restricted assets: | | | | | | | | | |
| Cash and cash equivalents | 14,909,508 | 16,667,797 | 24,368,185 | 22,063,406 | 9,749,983 | 8,799,005 | 9,513,715 | 9,536,656 | 8,540,684 |
| Total noncurrent assets | 188,897,082 | 176,893,340 | 155,950,932 | 137,630,950 | <u>115,483,331</u> | 79,600,898 | 38,786,214 | 26,440,882 | 23,177,031 |
| Total Assets | \$213,274,977 | \$211,028,020 | \$185,971,921 | \$ 191,253,606 | \$176,829,083 | \$ 137,573,092 | \$120,488,738 | \$100,316,403 | \$92,176,189 |

Ratio of Public Funds Invested

As highlighted below –Figure 1 and Figure 2, the Connecticut Green Bank has moved towards this model by increasing the overall ratio of financing to subsidies. In addition, it should be noted that funds used for subsidies through the RSIP (including administrative and financing costs) are recovered through the sale of SHRECs to the electric distribution companies (i.e., Avangrid and Eversource Energy) through 15-year Master Purchase Agreements ("MPA"). The declining incentive block design of the RSIP means that the subsidies continue to decrease at an increasing rate and the private capital sourced increases at an increasing rate. This trend has developed even as total investment in clean energy has increased to nearly \$2.0 billion in total from 2012 through 2020. In this way the Connecticut Green Bank has been able to do more at a faster pace while managing ratepayer resources more efficiently.

FIGURE 1. GREEN BANK CAPITAL DEPLOYMENT BY FY CLOSED



FIGURE 2. GREEN BANK CUMULATIVE GREEN BANK FUNDS INVESTED BY TYPE BY FY CLOSED

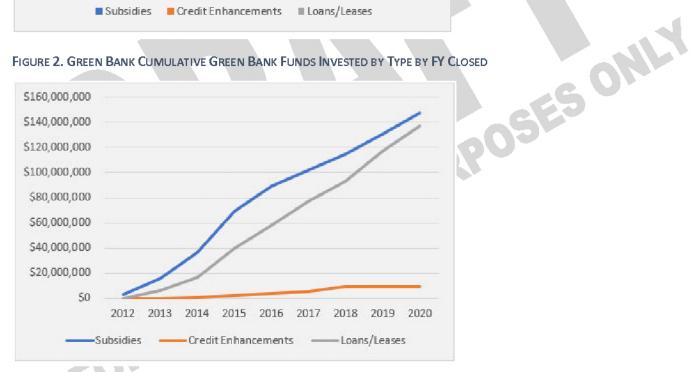


Table 20. Green Bank Ratio of Capital Invested as Subsidies, Credit Enhancements, and Loans and Leases by FY Closed³⁷

| Fiscal Year | Subsidies (Grants & Incentives) | % Subsidies | Credit Enhancements (LLR & IRB) | % Credit Enhancements | Loans and Leases (includes sell downs) | % Loans and Leases | Total |
|----------------|---------------------------------------|----------------|---------------------------------------|--------------------------|---|-----------------------------|---------------|
| 2012 | \$3,401,642 | 100% | \$0 | 0% | \$0 | 0% | \$3,401,642 |
| 2013 | \$12,443,213 | 67% | \$6,609 | 0% | \$6,010,302 | 33% | \$18,460,123 |
| 2014 | \$20,635,050 | 65% | \$516,623 | 2% | \$10,692,059 | 34% | \$31,843,733 |
| 2015 | \$32,948,730 | 57% | \$1,968,322 | 3% | \$22,722,994 | 39% | \$57,640,046 |
| 2016 | \$19,942,836 | 50% | \$1,518,620 | 4% | \$18,518,956 | 46% | \$39,980,412 |
| 2017 | \$12,433,649 | 38% | \$1,228,032 | 4% | \$19,450,797 | 59% | \$33,112,477 |
| 2018 | \$12,752,521 | 39% | \$4,286,879 | 13% | \$15,702,987 | 48% | \$32,742,386 |
| 2019 | \$16,138,816 | 40% | \$27,574 | 0% | \$24,140,259 | 60% | \$40,306,649 |
| 2020 | \$16,649,641 | 45% | \$0 | 0% | \$20,103,898 | 55% | \$36,753,538 |
| Total | \$147,346,096 | 50% | \$9,552,658 | 3% | \$137,342,251 | 47% | \$294,241,006 |

Creation of Private Investment Opportunities

As stated above, the Connecticut Green Bank's approach to leveraging limited public resources has created new opportunities for the private market investment. These financial innovations have broad impact in Connecticut and beyond. In FY 2020, the Green Bank, was a part of or a stimulus for upward of \$150 million dollars of clean energy financings. These include:

SHREC warehouse (Tranche 3)

In preparation for a bond issuance following the successful April 2019 SHREC ABS bond issuance, the Green Bank established a second warehouse funding facility secured by the systems that were to be securitized for the upcoming issuance of Green Liberty Bonds. The \$14 million dollar revolving credit warehouse with Webster Bank and Liberty Bank was closed in July of 2019.

Capital Solutions Program (Open RFP)

In January, the Green Bank Board of Directors approved a request for proposals for the use of Green Bank capital. The Capital Solutions Program allows project developers, companies, and others to bring clean energy opportunities to the Green Bank for our consideration and investment. Since its launch, \$48 million worth of transactions have been proposed to the Green Bank.

Ares Capital refinancing for PosiGen

The Green Bank worked with PosiGen to help secure financing for their solar partnership back-leverage facility resulting in a \$65 million refinancing that allows PosiGen to continue to grow their operations in the state.

³⁷ This table excludes the loan loss reserves for the Smart-E loan due to its rolling nature. The loan loss reserves in this table are calculated at the close of the loan and are not updated to reflect paid down principal.

The first Farm based Anaerobic Digester in Connecticut

In November 2019, the Green Bank was part of a \$4.8 million project financing with Live Oak Bank for a Thompson CT anaerobic digester. This is the first farm waste-to -energy digester financed by the Green Bank, its second digester project.

Engagement of Impact Investors

During the year, the Green Bank approved two foundations for impact investments which resulted in one of the foundations investing in the inaugural issue of Green Liberty Bonds. The Green Bank sees this investment leading to additional investment from other foundations and endowments seeking more ESG investments.

Fuel Cell Construction Financing for the US Navy Submarine Base in New London

As part of an overall engagement to raise funds for fuel cell projects under development in the state by FuelCell Energy (FCE), the Green Bank approved a \$3m construction loan facility related to FCE's New London USN Submarine Base project with Groton Utilities of the Connecticut Municipal Electric Energy Cooperative (CMEEC). The project will use two (2) SureSource 4000 fuel cell power plants to supply the submarine base with 7.2 MWs of clean energy generation which will also be connection to a microgrid for resilience.

Recapitalization of Capital for Change's energy lending programs

In March 2020, CT Green Bank, along with Inclusive Prosperity Capital, Inc, agreed to lend to Capital for Change (C4C) a Connecticut Community Development Financial Institution, \$7.7 million. C4C has long partnered with the Green Bank and the Connecticut Energy Efficiency Fund in the administration of programs and sought the Green Bank's expertise to source capital in FY2019 to continue to operate as a lender for the energy efficiency fund, the Green Bank's Smart-E program, and its LIME loan program.

\$3m expansion for REC-secured financing facility

To further the expansion of solar and energy efficiency for low-to-moderate income families in the state, the Green Bank provided PosiGen \$3 million in additional funding under a financing facility secured by solar renewable energy credits.

\$27m facility for C4C for residential EE & RE loans partnering with Amalgamated Bank.

Capital for Change Inc (C4C) is the largest originator of the Green Bank's Smart-E loan program. The Green Bank together with its lending partner Amalgamated Bank partnered to provide C4C a \$27 million revolving credit facility to finance its portfolio of Smart-E loans. This facility will enable C4C to provide additional solar and energy efficiency financing for families in single family homes throughout the state.

Term loan facility for commercial solar PV projects with Skyview Venture

In April 2020, the Green Bank agreed to loan Skyview Ventures up to \$3.5m for the development of additional commercial solar assets. The target assets are sited on various municipal properties, with the respective municipalities as energy off-takers. In connection with the loan, each target asset is secured by a power purchase agreement has been executed by and between Skyview and the off-taker as well

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as a zero emission renewable energy credit contract between Skyview and Eversource or United Illuminating.

Term loan facility for Greenworks awarded under C-PACE RFP

The Green Bank issued an RFP for the use of its capital by C-PACE lenders with the aim that it could help lower lender's cost of capital and thus increase lending in Connecticut for C-PACE. In June 2020, Greenworks SPV LLC entered into an agreement with CT Green Bank to receive a \$5m term loan facility secured by C-PACE benefit assessment liens.

Preparation for the next Bond Issuance

The Green Bank, having had a successful bond issuance in the Asset Backed Securities market in FY 2019, sought to replicate the transaction in the municipal debt capital market, where the Green Bank could reach individual "retail" investors as well as achieve a lower execution cost for the transaction. The organization spent much of the year preparing the transaction and working with outside consultants, engineers, ratings agencies, and bankers. It awarded Ramirez & Co and Stifel senior managing underwriter and co-managing underwriter respectively for the inaugural \$16.8 million Green Liberty Bond which was scheduled for issuance in April but was delayed to July 2020 due to market conditions resulting from COVID 19.

Societal Benefits

Societal Benefits and the Evaluation Framework

One of the Connecticut Green Bank's evaluation activities is intended to understand how the increase in investment and deployment of clean energy supported by the Green Bank results in benefits to society. Working with internal and external subject matter experts, the Connecticut Green Bank has established an evaluation framework to guide the assessment, monitoring and reporting of the program impacts and processes, including, but not limited to energy savings and clean energy production and the resulting societal impacts or benefits arising from clean energy investment. The evaluation framework can be found here=³⁸.

Societal Benefits: Jobs

The Connecticut Green Bank stimulates economic activity in the state through its program related and strategic lending and investing. This economic activity can be measured by job creation. The Green Bank, in conjunction with the Connecticut Department of Economic and Community Development commissioned a study by Navigant Consulting in 2010 to quantify those jobs. This study was updated in 2016 and is the basis for how the Green Bank measures its impact on job creation. This study and calculator were reviewed by the Connecticut Department of Economic and Community Development which deemed them a reasonable estimation and an appropriate tool for assessing this impact For

³⁸ CGB Evaluation Framework: https://www.ctgreenbank.com/wp-content/uploads/2018/03/CGB_DECD_Jobs-Study_Fact-Sheet.pdf

more information on this study and the methodology, click <u>here</u>³⁹. An overview of our Jobs methodology can be found <u>here</u>⁴⁰. Essentially, investments into clean energy can be translated into manufacturing, engineering, installation and project management jobs in the clean energy sector. In 2020, the direct jobs showed a 24% decrease from the previous year.

TABLE 21. GREEN BANK JOB YEARS SUPPORTED BY FY CLOSED 41 42

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|---------------------------------|---------------|
| 2012 | 58 | 93 | 151 |
| 2013 | 579 | 1,161 | 1,740 |
| 2014 | 596 | 952 | 1,548 |
| 2015 | 1,728 | 2,671 | 4,399 |
| 2016 | 1,957 | 3,115 | 5,072 |
| 2017 | 902 | 1,235 | 2,137 |
| 2018 | 987 | 1,286 | 2,272 |
| 2019 | 1,467 | 1,919 | 3,386 |
| 2020 | 1,155 | 1,526 | 2,681 |
| Total | 9,429 | 13,958 | 23,387 |

Societal Benefits: Tax Revenue

The aforementioned economic stimulation by the Connecticut Green Bank also generates tax revenue through personal and corporate income taxes as well as sales and use taxes. Tax revenues go into the State's General Fund, where they are used for a wide variety of public benefit activities such as education, transportation and public safety. In 2018, the Green Bank engaged Navigant Consulting to conduct a study on the levels of this revenue generation. The result of this study is the Navigant Tax Calculator. The Green Bank has adopted this calculator to estimate the impact of its projects to state tax revenues. This study and calculator were reviewed by the Connecticut Department of Revenue Services which found them to be both a reasonable estimation and an appropriate tool for assessing this impact. For more information on the Navigant study and the methodology, click here=44. An overview of our Tax methodology can be found <a href=here=44. In 2020, total tax revenue generated decreased 38%.

TABLE 22. GREEN BANK TAX REVENUES GENERATED BY FY CLOSED 45

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|--|---------------------------------------|-----------------------------------|-----------------------------------|
| 2012 | \$267,742 | \$79,970 | \$0 | \$347,712 |

³⁹ Clean Energy Jobs in Connecticut: http://ctgreenbank.com/wp-content/uploads/2017/02/CTGReenBank-Clean-Energy-Jobs-CT-August102016.pdf

⁴⁰ CGB Economic Development Factsheet: https://www.ctgreenbank.com/wp-content/uploads/2018/03/CGB_DECD_Jobs-Study_Fact-Sheet.pdf

⁴¹ The Green Bank updated its job study in 2016 and implemented new job creation factors in FY2017

⁴² See Appendix for Job Year Factors.

⁴³ Tax Report: https://www.ctgreenbank.com/wp-content/uploads/2018/09/Tax-Study Final Report 01-19-18.pdf

⁴⁴ Tax Methodology: https://www.ctgreenbank.com/wp-content/uploads/2018/09/CGB-Eval-Tax-Methodology-7-24-18.pdf

⁴⁵ See Appendix for Average Emission Rates.

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|--|---------------------------------------|-----------------------------------|-----------------------------------|
| 2013 | \$2,895,068 | \$925,510 | \$4,143,940 | \$7,964,519 |
| 2014 | \$2,811,457 | \$1,754,942 | \$813,476 | \$5,379,875 |
| 2015 | \$8,793,765 | \$4,504,274 | \$4,000,366 | \$17,298,405 |
| 2016 | \$9,317,322 | \$4,068,566 | \$2,856,338 | \$16,242,225 |
| 2017 | \$4,286,692 | \$2,484,216 | \$1,899,106 | \$8,670,014 |
| 2018 | \$5,236,375 | \$3,099,352 | \$2,266,284 | \$10,602,011 |
| 2019 | \$7,662,814 | \$4,427,538 | \$5,609,150 | \$17,699,502 |
| 2020 | \$6,557,565 | \$3,332,253 | \$2,645,905 | \$12,535,722 |
| Total | \$47,828,800 | \$24,676,621 | \$24,234,564 | \$96,739,985 |

Societal Benefits: Environmental Impacts and Equivalencies

The Green Bank assesses the impact of its projects in terms of local environmental protection benefits produced by projects. These benefits are primarily in the form of cleaner air in the state and are measured in terms of tons of Carbon Dioxide (CO2) and pounds of Nitrous Oxide (NOx), Sulfur Dioxide (SOx) and particulate matter (PM 2.5) not emitted. The Green Bank has developed its measurement methodology for these measurements in conjunction with outside experts from the Connecticut Department of Energy and Environmental Protection and at the United States Environmental Protection Agency. These agencies have found the methodology to be a reasonable estimation and an appropriate tool for assessing this impact. For more information on this methodology, click here46. For more information on the EPA's AvERT, click here47. Note that the lifetime values are based on the aggregation of projects' impact for one year multiplied by the useful life of the technology for each project.

TABLE 23. GREEN BANK AVOIDED EMISSIONS BY FY CLOSED 48

| | CO2 | Emissions Avoided | (tons) |
|-------------|---------|--------------------------|---|
| Fiscal Year | Annual | Lifetime | Green Bank Investment (\$) / Project Lifetime Tons of Avoided CO ₂ Emissions |
| 2012 | 1,242 | 31,043 | \$109.58 |
| 2013 | 13,254 | 210,361 | \$87.75 |
| 2014 | 15,644 | 358,717 | \$88.77 |
| 2015 | 114,618 | 1,890,035 | \$30.50 |
| 2016 | 47,803 | 1,131,712 | \$35.33 |
| 2017 | 35,551 | 858,938 | \$38.55 |
| 2018 | 42,561 | 1,025,988 | \$31.91 |
| 2019 | 114,098 | 1,979,170 | \$20.37 |
| 2020 | 66,950 | 1,474,033 | \$24.93 |
| Total | 451,719 | 8, 959, 997 | \$32.84 |

⁴⁶ CGB Environmental Impact Factsheet: https://www.ctgreenbank.com/wp-content/uploads/2017/05/CGB-Environmental-Impact-051617.pdf

⁴⁷ Environmental Protection Agency AvERT User Manual: https://www.ctgreenbank.com/wp-content/uploads/2017/05/AVERT fact sheet user manual 03-01-17.pdf

⁴⁸ See Appendix for Average Emission Rates.

| | NOx E | missions Avoided (po | ounds) |
|---------------------|---------------------|----------------------|---|
| Fiscal Year | Annual | Lifetime | Green Bank Investment (\$) / Project Lifetime Pounds of Avoided NO _X Emissions |
| 2012 | 1,638 | 40,958 | \$83.05 |
| 2013 | 70,847 | 822,178 | \$22.45 |
| 2014 | 20,433 | 471,189 | \$67.58 |
| 2015 | 112,391 | 1,949,751 | \$29.56 |
| 2016 | 50,848 | 1,201,181 | \$33.28 |
| 2017 | 32,385 | 783,845 | \$42.24 |
| 2018 | 39,852 | 964,738 | \$33.94 |
| 2019 | 102,956 | 1,820,076 | \$22.15 |
| 2020 | 92,437 | 1,691,902 | \$21.72 |
| Total | 523,788 | 9,745,818 | \$30.19 |
| | SOx E | missions Avoided (po | ounds) |
| 137 | | 117.0 | Green Bank Investment (\$) / Project Lifetime Pounds of |
| Fiscal Year 2012 | Annual 2,117 | Lifetime 52,930 | Avoided SO _x Emissions |
| 2012 | 55,541 | 699,386 | \$64.27 \$26.39 |
| 2013 | 22,856 | 526,584 | \$60.47 |
| 2014 | 104,457 | 1,839,576 | \$31.33 |
| 2016 | 41,281 | 962,629 | \$41.53 |
| 2017 | 23,417 | 565,684 | \$58.54 |
| 2018 | 33,140 | 802,753 | \$40.79 |
| 2019 | 89,740 | 1,581,258 | \$25.49 |
| 2020 | 75,281 | 1,415,529 | \$25.96 |
| Total | 447,831 | 8,446,329 | \$34.84 |
| | | missions Avoided (p | |
| F: 137 | | | Green Bank Investment (\$) / Project Lifetime Pounds of |
| Fiscal Year 2012 | Annual 111 | Lifetime | Avoided PM 2.5 Emissions |
| 2012 | 473 | 2,772 11,603 | \$1,227.29 \$1,590.92 |
| | | | • |
| 2014 | 1,353 | 31,762 | \$1,002.56 |
| 2015 | 9,194 | 153,384 | \$375.79 |
| 2016 | 4,129 | 98,565 | \$405.62 |
| 2017 | 2,997 | 72,575 | \$456.25 |
| 2018 | 3,594 | 86,843 | \$377.03 |
| 2019 | 9,148 | 159,173 | \$253.23 |
| 2020 | 5,100 | 116,575 | \$315.28 |
| Total | 36,098 | 733,252 | \$401.28 |

To help put this environmental impact into everyday terms, the Green Bank calculates the environmental "equivalencies" of reduced emissions, as shown in Table 24. The Green Bank calculates environmental equivalencies using factors from the EPA's environmental equivalency calculator, which was also reviewed and deemed to be a reasonable estimation of impact by the Connecticut Department of Energy and Environment. The calculator translates abstract reductions into everyday equivalencies. For example, avoided carbon dioxide emissions can translate to avoided emissions from vehicles, or the number of tree seedlings needed to sequester an equivalent amount of carbon. For more

information on this methodology, click $\underline{\text{here}}^{49}$. The EPA environmental equivalency calculator can be found $\underline{\text{here}}^{50}$.

TABLE 24. GREEN BANK GREENHOUSE GAS EQUIVALENCIES (BASED ON REDUCTIONS OF CO₂ TONS) BY FY CLOSED

| | | Greenhouse | gas emissions from: | |
|-------------|------------------|------------------------|-----------------------|--------------------------|
| | Passenger vehicl | es driven for one year | Miles driven by an av | verage passenger vehicle |
| Fiscal Year | Annual | Lifetime of Asset | Annual | Lifetime of Asset |
| 2012 | 243 | 6,084 | 2,795,209 | 69,880,216 |
| 2013 | 2,598 | 41,229 | 29,835,451 | 473,538,037 |
| 2014 | 3,066 | 70,305 | 35,215,289 | 807,499,627 |
| 2015 | 22,464 | 370,430 | 258,013,572 | 4,254,618,290 |
| 2016 | 9,369 | 221,805 | 107,608,074 | 2,547,572,345 |
| 2017 | 6,968 | 168,344 | 80,027,142 | 1,933,537,956 |
| 2018 | 8,342 | 201,084 | 95,807,821 | 2,309,579,698 |
| 2019 | 22,362 | 387,899 | 256,844,310 | 4,455,267,020 |
| 2020 | 13,122 | 288,897 | 150,708,805 | 3,318,164,648 |
| Total | 88,533 | 1,756,079 | 1,016,855,672 | 20,169,657,837 |
| | | CO ₂ e | missions from: | |
| | Gallons of ga | soline consumed | | y use for one year |
| Fiscal Year | Annual | Lifetime of Asset | Annual | Lifetime of Asset |
| 2012 | 126,755 | 3,168,868 | 130 | 3,250 |
| 2013 | 1,352,952 | 21,473,594 | 1,387 | 22,021 |
| 2014 | 1,596,913 | 36,617,796 | 1,638 | 37,552 |
| 2015 | 11,700,177 | 192,934,756 | 11,999 | 197,855 |
| 2016 | 4,879,718 | 115,525,111 | 5,004 | 118,471 |
| 2017 | 3,629,002 | 87,680,409 | 3,722 | 89,916 |
| 2018 | 4,344,610 | 104,732,826 | 4,455 | 107,404 |
| 2019 | 11,647,154 | 202,033,601 | 11,944 | 207,185 |
| 2020 | 6,834,213 | 150,469,265 | 7,008 | 154,306 |
| Total | 46,111,493 | 914,636,225 | 47,287 | 937,959 |
| | | Carbon | sequestered by: | |
| | Tree seedlings | grown for 10 years | Acres of U.S. f | forests in one year |
| Fiscal Year | Annual | Lifetime of Asset | Annual | Lifetime of Asset |
| 2012 | 18,626 | 465,660 | 1,471 | 36,778 |
| 2013 | 198,814 | 3,155,511 | 15,702 | 249,223 |
| 2014 | 234,664 | 5,380,927 | 18,534 | 424,986 |
| 2015 | 1,719,323 | 28,351,459 | 135,792 | 2,239,202 |
| 2016 | 717,067 | 16,976,233 | 56,634 | 1,340,785 |
| 2017 | 533,276 | 12,884,498 | 42,118 | 1,017,620 |
| 2018 | 638,434 | 15,390,324 | 50,424 | 1,215,530 |
| 2019 | 1,711,531 | 29,688,520 | 135,177 | 2,344,804 |
| 2020 | 1,004,277 | 22,111,222 | 79,318 | 1,746,348 |
| Total | 6,776,011 | 134,404,353 | 535,170 | 10,615,276 |

⁴⁹ http://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references

⁵⁰ March 2020EPA Greenhouse Gas Equivalencies Calculator: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

Societal Benefits: Public Health

The avoided emissions described above result in cleaner air which corelates to public health benefits. Air pollution influences the prevalence and severity of asthma, bronchitis, coronary and respiratory disease, and even death.

With the adoption of the AvERT tool for assessing environmental impacts, the Green Bank is able to leverage this information to gauge public health benefits of its activities. The Green Bank assesses public health benefits and illnesses or deaths avoided using data from the AvERT tool. After the Connecticut Department of Public Health and Connecticut Department of Energy & Environmental Protection reviewed the EPA's Co-Benefit Risk Assessment Tool (CoBRA) in 2017 and found it to be a reasonable estimation and an appropriate tool for assessing this impact, the Green Bank's Board of Directors approved its use. The CoBRA tool reports back low and high estimates of avoided incidents, locations, and associated costs of the health outcomes described above. These public health impacts are quantified and presented as total estimated public health savings of the policies in dollarsFor more information on this methodology, click here=51. An overview of CoBRA can be found <a href=here=52. The factors used to measure impact from CoBRA can be found in the appendix.

TABLE 25. ECONOMIC SAVINGS DUE TO PUBLIC HEALTH FROM GREEN BANK PROJECTS (BASED ON REDUCTIONS OF EMISSIONS) BY FY CLOSED

| Fiscal Year | An | nual | Life | etime | (\$) / Lifet | k Investment ime Public Savings |
|----------------|--------------|--------------|---------------|---------------|--------------|---------------------------------------|
| | Low | High | Low | High | Low | High |
| 2012 | \$42,865 | \$96,778 | \$1,071,624 | \$2,419,440 | \$3.17 | \$1.41 |
| 2013 | \$1,021,876 | \$2,309,359 | \$12,873,526 | \$29,087,378 | \$1.43 | \$0.63 |
| 2014 | \$526,541 | \$1,189,010 | \$12,212,728 | \$27,575,862 | \$2.61 | \$1.15 |
| 2015 | \$1,417,901 | \$3,200,842 | \$33,506,606 | \$75,642,682 | \$1.72 | \$0.76 |
| 2016 | \$1,618,470 | \$3,654,503 | \$38,589,816 | \$87,130,897 | \$1.04 | \$0.46 |
| 2017 | \$1,203,613 | \$2,717,616 | \$29,560,919 | \$66,743,689 | \$1.12 | \$0.50 |
| 2018 | \$1,487,688 | \$3,359,269 | \$35,933,015 | \$81,135,286 | \$0.91 | \$0.40 |
| 2019 | \$1,628,842 | \$3,677,743 | \$40,287,743 | \$90,964,028 | \$1.00 | \$0.44 |
| 2020 | \$1,402,936 | \$3,168,660 | \$28,670,307 | \$64,743,098 | \$1.28 | \$0.57 |
| Total | \$10,350,732 | \$23,373,778 | \$232,706,285 | \$525,442,360 | \$1.26 | \$0.56 |

Social Cost of Carbon

Using the methodology adopted by the Obama Administration in 2014, the Green Bank has estimated the total avoided economic costs of the carbon emissions avoided as a result of these projects. This was done by forecasting out when the projected estimated emissions savings are likely to occur and then applying the prices identified by the White House Council on Environmental Quality at the various

51 https://www.ctgreenbank.com/wp-content/uploads/2018/03/CGB-Eval-PUBLICHEALTH-1-25-18-new.pdf

https://www.epa.gov/statelocalenergy/co-benefits-risk-assessment-cobra-health-impacts-screening-and-mapping-tool

discount rates adjusted to 2019 dollars⁵³.

Table 26 shows the annual forecasted emissions avoided and the related social cost of those emissions at various discount rates. Using the 3% discount rate, in alignment with the initial study, the overall value of the Green Banks projects in terms of emissions avoided is \$501,934,953.55.

Table 26. Avoided CO₂ Emissions Forecast and the Social Costs of Carbon

| | Estimated CO2 | Economic | Value of Avoided Emi | ssions at Different Di | scount Rates |
|------|--------------------------------|----------------|----------------------|------------------------|---------------------------------|
| Year | annual emissions avoided | 5% Average | 3% Average | 2.5% Average | High Impact (95th Pct at 3%) |
| 2011 | 5,139.62 | \$61,058.69 | \$177,625.27 | \$283,090.27 | \$499,571.06 |
| 2012 | 9,742.31 | \$118,953.61 | \$356,860.82 | \$573,140.10 | \$1,005,698.66 |
| 2013 | 28,080.49 | \$345,951.64 | \$1,069,305.06 | \$1,698,308.04 | \$3,050,664.43 |
| 2014 | 128,659.70 | \$1,613,392.64 | \$5,133,522.03 | \$8,066,963.19 | \$14,813,877.86 |
| 2015 | 180,295.30 | \$2,260,903.06 | \$7,399,319.11 | \$11,510,051.95 | \$21,581,347.41 |
| 2016 | 218,626.00 | \$2,789,667.76 | \$9,637,034.08 | \$14,455,551.12 | \$27,389,465.28 |
| 2017 | 260,320.70 | \$3,378,962.69 | \$11,979,958.61 | \$18,123,527.13 | \$34,403,983.71 |
| 2018 | 367,086.60 | \$5,330,097.43 | \$17,766,991.44 | \$26,650,487.16 | \$51,524,275.18 |
| 2019 | 437,666.80 | \$6,512,481.98 | \$22,250,980.11 | \$33,105,116.75 | \$65,124,819.84 |
| 2020 | 463,095.40 | \$6,890,859.55 | \$24,118,008.43 | \$35,602,774.35 | \$70,631,310.41 |
| 2021 | 463,095.40 | \$6,890,859.55 | \$24,118,008.43 | \$36,177,012.65 | \$72,354,025.30 |
| 2022 | 455,219.30 | \$7,338,135.12 | \$24,272,293.08 | \$36,126,203.65 | \$72,816,879.23 |
| 2023 | 455,219.30 | \$7,338,135.12 | \$24,836,765.01 | \$36,690,675.58 | \$74,510,295.02 |
| 2024 | 452,441.00 | \$7,293,348.92 | \$25,246,207.80 | \$37,027,771.44 | \$75,738,623.40 |
| 2025 | 381,155.40 | \$6,616,857.74 | \$21,741,104.02 | \$32,139,023.33 | \$65,223,312.05 |
| 2026 | 375,439.90 | \$6,517,636.66 | \$21,880,637.37 | \$32,122,637.84 | \$65,641,912.12 |
| 2027 | 372,644.50 | \$6,931,187.70 | \$22,179,800.64 | \$32,345,542.60 | \$66,077,322.74 |
| 2028 | 357,411.20 | \$6,647,848.32 | \$21,716,304.51 | \$31,466,482.05 | \$64,705,723.65 |
| 2029 | 292,428.50 | \$5,439,170.10 | \$17,767,955.66 | \$26,108,016.48 | \$54,029,089.66 |
| 2030 | 276,396.00 | \$5,483,696.64 | \$17,136,552.00 | \$25,019,365.92 | \$52,095,118.08 |
| 2031 | 269,148.50 | \$5,339,906.24 | \$17,020,951.14 | \$24,697,066.36 | \$51,730,341.70 |
| 2032 | 268,985.90 | \$5,670,222.77 | \$17,344,210.83 | \$25,015,688.70 | \$52,699,717.53 |
| 2033 | 268,985.90 | \$5,670,222.77 | \$17,677,753.35 | \$25,349,231.22 | \$53,700,345.08 |
| 2034 | 268,985.90 | \$6,003,765.29 | \$18,011,295.86 | \$25,682,773.73 | \$54,700,972.62 |
| 2035 | 266,656.90 | \$5,951,782.01 | \$18,186,000.58 | \$25,791,055.37 | \$55,549,965.41 |
| 2036 | 262,424.10 | \$6,182,711.80 | \$18,222,729.50 | \$25,707,064.84 | \$55,644,406.16 |
| 2037 | 254,903.00 | \$6,005,514.68 | \$18,016,544.04 | \$25,602,457.32 | \$54,997,871.28 |
| 2038 | 230,143.30 | \$5,707,553.84 | \$16,551,906.14 | \$23,400,970.74 | \$50,511,851.48 |
| 2039 | 184,223.20 | \$4,568,735.36 | \$13,477,769.31 | \$18,960,251.74 | \$41,118,618.24 |
| 2040 | 148,687.90 | \$3,871,832.92 | \$11,062,379.76 | \$15,487,331.66 | \$33,740,258.27 |

⁵³ https://obamawhitehouse.archives.gov/sites/default/files/omb/inforeg/scc_tsd_final_clean_8_26_16.pdf

| | Estimated CO2 annual | Economic | Value of Avoided Emi | issions at Different Di | scount Rates |
|------|----------------------|------------------|----------------------|-------------------------|---------------------------------|
| Year | emissions avoided | 5% Average | 3% Average | 2.5% Average | High Impact (95th Pct at 3%) |
| 2041 | 113,520.30 | \$2,956,068.61 | \$8,586,675.49 | \$11,965,039.62 | \$26, 182, 321.99 |
| 2042 | 71,737.13 | \$1,956,988.91 | \$5,426,196.51 | \$7,650,047.54 | \$16,812,313.79 |
| 2043 | 20,360.40 | \$555,431.71 | \$1,565,307.55 | \$2,196,479.95 | \$4,847,404.03 |
| | 8,608,925.85 | \$156,239,941.82 | \$501,934,953.55 | \$732,797,200.40 | \$1,505,453,702.67 |

Other Societal Benefits

The Green Bank is presently working on methodologies to further measure additional societal impacts of its programs. In Fiscal Year 2021, the Green Bank will continue to review Community Reinvestment Act eligibility for projects, methods to assess equity (i.e., income and race) from investments in clean energy, as well as the economic relief from the energy burden felt by participating property owners and tenants that install clean energy systems annually and over the life of the renewable energy projects.

Community Impacts

Community and Market Descriptions

Communities across Connecticut are demonstrating leadership by supporting the deployment of clean energy. The Connecticut Green Bank distributes reports to communities on an annual basis to provide them with information about their performance in comparison to others in the state. There are many leaders of clean energy deployment across Connecticut, and we have assembled the "Top 5" in energy, economy, and environment for FY 2020 as well as FY 2012 through FY 2020. It should be noted that in a 2016 United Nations report, an estimated \$90 trillion must be invested globally through 2030 to make progress toward all these Sustainable Development Goals in order to confront climate change.⁵⁴ This equates to an average annual investment per capita of approximately \$790⁵⁵.

TABLE 27. THE "TOP 5" ON ENERGY, ECONOMY, AND ENVIRONMENTAL PERFORMANCE - FY 2020 CLOSED ACTIVITY

| Municipality | Watts / Capita |
|---------------|-------------------|
| Putnam | 115.7 |
| North Haven | 70.6 |
| Windsor Locks | 63.4 |
| Salem | 63.4 |
| Durham | 61.0 |

| Municipality | Investment / Capita |
|---------------|------------------------|
| Windsor Locks | \$325.37 |
| Morris | \$252.13 |
| North Haven | \$246.82 |
| Salem | \$2 33.69 |
| Putnam | \$226.67 |

| Municipality | Total Lifetime CO2 Emissions (Tons) |
|--------------|---|
| Putnam | 53,051 |
| Bridgeport | 44,674 |
| Ridgefield | 43,703 |
| Waterbury | 42,931 |
| Stratford | 34,392 |

TABLE 28. THE "TOP 5" ON ENERGY, ECONOMY, AND ENVIRONMENTAL PERFORMANCE - FY 2012 - 2020 CLOSED ACTIVITY

⁵⁴ https://www.un.org/pga/71/wp-content/uploads/sites/40/2017/02/Financing-Sustainable-Development-in-a-time-of-turmoil.pdf

⁵⁵ \$90,000,000,000,000/7.6B people/15 years until 2030 = \$790

| Municipality | Watts / Capita |
|--------------|-------------------|
| Colebrook | 3,420.3 |
| Canaan | 413.6 |
| Woodbridge | 357.9 |
| Putnam | 336.8 |
| Durham | 326.0 |

| Municipality | Investment / Capita |
|--------------|------------------------|
| Colebrook | \$15,364.04 |
| Canaan | \$1,749.83 |
| Woodbridge | \$1,335.63 |
| Durham | \$1,315.52 |
| Bridgeport | \$1,280.32 |

| Municipality | Total Lifetime CO2 Emissions (Tons) |
|--------------|---|
| Bridgeport | 1,178,749 |
| Hartford | 196,097 |
| Waterbury | 177,963 |
| Stratford | 166,871 |
| Hamden | 162,421 |

Projects by Income Bands

In addition to tracking funding and clean energy deployment in distressed municipalities, the Green Bank works to ensure that low to moderate income (LMI) census tracts across the entire state benefit from its programs. The Green Bank defines low to moderate income as 100% or less of the Area Median Income (AMI) of a Metropolitan Statistical Area (MSA). Table 31 groups the Green Bank's residential projects by the average area median income (AMI) of their census tract from the American Community Survey (ACS) 5-Year Estimate data. Table 32 groups the Green Bank's residential projects by the average state median income (SMI) of their census tract from the American Community Survey (ACS) 5-Year Estimate data.

Table 29 Overview of Connecticut Population and Households by Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands^{56 57}

| | | | | | | % Owner | Total | |
|----------|------------|--------------|------------|--------------|--------------|--------------|--------------|------------------|
| | | | | | Total Owner | Occupied 1- | Owner/Rental | % Owner/Rental |
| | | % Total | | % Total | Occupied 1-4 | 4 Unit | Occupied 5+ | Occupied 5+ Unit |
| ASA AMI | Total | Population | Total | Honsehold | Unit | Honsehold | Unit | Honsehold |
| Band | Population | Distribution | Households | Distribution | Households | Distribution | Honseholds | Distribution |
| ×99× | 636,795 | 18% | 234,319 | 17% | 62,247 | 7% | 83,249 | 35% |
| %08-%0 | 553,007 | 15% | 219,309 | 16% | 109,142 | 13% | 55,429 | 23% |
| 0%-100% | 569,113 | 16% | 232,794 | 17% | 145,988 | 17% | 45,080 | 19% |
| 00%-120% | 710,802 | 20% | 278,265 | 20% | 204,880 | 24% | 34,590 | 14% |
| .120% | 1,103,484 | 31% | 402,643 | 79% | 343,989 | 40% | 21,753 | %6 |
| Total | 3,581,504 | 100% | 1,367,374 | 100% | 866,246 | 100% | 240,101 | 100% |
| | | | | | | | | |

TABLE 30 OVERVIEW OF CONNECTICUT POPULATION AND HOUSEHOLDS BY METROPOLITAN STATISTICAL AREA (MISA) STATE MEDIAN INCOME (SMI) BANDS^{58 59}

| MSA SMI Total Band Population <60% 623,994 | | | | | o Owlie | lotal | |
|--|------------|------------|--------------|--------------|--------------|--------------|------------------|
| IW. | | | | Total Owner | Occupied 1- | Owner/Rental | % Owner/Rental |
| - IWS | % Total | | % Total | Occupied 1-4 | 4 Unit | Occupied 5+ | Occupied 5+ Unit |
| | Population | Total | Honsehold | Unit | Household | Unit | Honsehold |
| | _ | Honseholds | Distribution | Households | Distribution | Honseholds | Distribution |
| | 17% | 231,517 | 17% | 62,026 | %/ | 80,135 | 33% |
| 60%-80% 593,375 | 17% | 235,228 | 17% | 121,250 | 14% | 51,651 | 22% |
| 80%-100% 706,394 | 20% | 287,930 | 21% | 182,344 | 21% | 58,702 | 24% |
| 100%-120% 607,030 | 17% | 240,427 | 18% | 180,841 | 21% | 30,015 | 13% |
| >120% 1,042,408 | 29% | 372,228 | 27% | 319,785 | 37% | 19,598 | %8 |
| Total 3,581,504 | 100% | 1,367,374 | 100% | 866,246 | 100% | 240,101 | 100% |

Table 31. Green Bank Residential ⁶⁰ Annual Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands by FY Closed⁶¹

^{56 2018} American Community Survey (ACS)

 $^{^{57}}$ The suite of products offered by the Connecticut Green Bank do not currently address rental properties of 1-4 units.

^{58 2018} American Community Survey (ACS)

⁵⁹ The suite of products offered by the Connecticut Green Bank do not currently address rental properties of 1-4 units.

 $^{^{60}\}mathrm{Residential}$ Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units. 61 Excludes projects in unknown bands.

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|--------------------------------------|---|---|-------------------------------|
| 2012 | %09> | 10 | 3% | 0.1 | 3% | \$227,144 | 2% | 228,062 | 17% | 0.0 | \$1.00 | 0.2 |
| 2012 | 80%-80% | 9 | 2% | 0.0 | 2% | \$144,970 | 1% | 207,439 | 15% | 0.0 | \$0.70 | 0.2 |
| 2012 | 80%-100% | 99 | %87 | 9.0 | 21% | \$2,125,276 | 21% | 239,356 | 18% | 6.0 | \$8.8\$ | 1.7 |
| 2012 | 100%-120% | 7.7 | 27% | G :0 | 26% | \$2,689,978 | 27% | 280,563 | 21% | 0.3 | \$9.59 | 1.8 |
| 2012 | >120% | 129 | 45% | 6.0 | 48% | \$4,714,144 | 48% | 404,748 | 30% | 0.3 | \$11.65 | 2.3 |
| 2012 | Total | 288 | 100% | 1.9 | 100% | \$9,901,511 | 100% | 1,360,184 | 100% | 0.2 | \$7.28 | 1.4 |
| 2013 | %09> | 32 | 3% | 0.2 | 2% | \$850,831 | 2% | 224,259 | 17% | 0.1 | \$3.79 | 8.0 |
| 2013 | %08-%09 | 55 | 2% | 0.3 | 4% | \$1,569,188 | 4% | 222,791 | 16% | 0.2 | \$7.04 | 1.5 |
| 2013 | 80%-100% | 193 | 41% | 1.3 | 16% | \$5,874,222 | 17% | 236,965 | 17% | 8.0 | \$24.80 | 5.3 |
| 2013 | 100%-120% | 223 | 20% | 1.5 | 19% | \$7,350,774 | 21% | 264,685 | 20% | 8:0 | \$27.77 | 5.8 |
| 2013 | >120% | 604 | 25% | 4.6 | 28% | \$19,745,057 | 26% | 407,204 | 30% | 1.5 | \$48.49 | 11.2 |
| 2013 | Total | 1,107 | 100% | 6.7 | 100% | \$35,390,072 | 100% | 1,355,849 | 100% | 8.0 | \$26.10 | 5.8 |
| 2014 | %09> | 117 | 2% | 9.0 | 4% | \$2,868,553 | 4% | 224,369 | 17% | 0.5 | \$12.78 | 2.7 |
| 2014 | %08-%09 | 175 | %/ | 1.0 | %9 | \$4,858,809 | %9 | 216,437 | 16% | 8.0 | \$22.45 | 4.6 |
| 2014 | 80%-100% | 651 | 76% | 3.6 | 21% | \$16,968,776 | 22% | 231,014 | 17% | 2.8 | \$73.45 | 15.5 |
| 2014 | 100%-120% | 614 | 24% | 4.5 | 27% | \$21,009,934 | 27% | 278,174 | 21% | 2.2 | \$75.53 | 16.0 |
| 2014 | >120% | 989 | 39% | 7.0 | 42% | \$32,071,894 | 41% | 406,185 | 30% | 2.4 | \$78.96 | 17.3 |
| 2014 | Total | 2,546 | 100% | 16.7 | 100% | \$77,777,966 | 100% | 1,356,206 | 100% | 1.9 | \$57.35 | 12.3 |
| 2015 | %09> | 371 | %9 | 2.1 | 4% | \$9,515,351 | 4% | 240,062 | 18% | 1.5 | \$39.64 | 8.9 |
| 2015 | %08-%09 | 783 | 12% | 0.3 | 40% | \$23,102,780 | 10% | 193,188 | 14% | 4.1 | \$119.59 | 25.7 |
| 2015 | 80%-100% | 1,485 | 22% | 8.6 | 21% | \$47,380,896 | 21% | 264,609 | 20% | 5.6 | \$179.06 | 37.0 |
| 2015 | 100%-120% | 1,613 | 24% | 12.2 | 26% | \$57,572,575 | 26% | 240,485 | 18% | 6.7 | \$239.40 | 50.8 |
| 2015 | >120% | 2,465 | 37% | 18.6 | 39% | \$87,078,515 | 39% | 414,212 | 31% | 6.0 | \$210.23 | 44.9 |
| 2015 | Total | 6,717 | 100% | 47.7 | 100% | \$224,650,117 | 100% | 1,352,583 | 100% | 5.0 | \$166.09 | 35.3 |
| 2016 | %09> | 947 | 11% | 4.5 | %8 | \$37,833,617 | 14% | 236,643 | 41% | 4.0 | \$159.88 | 18.9 |
| 2016 | 80%-80% | 1,325 | 16% | 8.2 | 15% | \$35,313,502 | 13% | 199,269 | 15% | 9.9 | \$177.22 | 41.1 |
| 2016 | 80%-100% | 2,026 | 24% | 12.5 | 22% | \$57,469,050 | 22% | 261,240 | 19% | 7.8 | \$219.99 | 47.8 |
| 2016 | 100%-120% | 1,941 | 23% | 13.3 | 24% | \$60,496,977 | 23% | 251,604 | 19% | 7.7 | \$240.45 | 52.8 |
| 2016 | >120% | 2,036 | 25% | 17.4 | 31% | \$75,378,206 | 28% | 405,921 | 30% | 5.0 | \$185.70 | 43.0 |
| 2016 | H-4-1 | 8 27E | 4000% | 0 22 | 4000% | 4066 404 950 | 70007 | 4 254 742 | ,000 | ì | 11000 | ; |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|--------------------------------------|---|---|-------------------------------|
| 2017 | <60% | 1,194 | 20% | 4.1 | 12% | \$17,066,807 | 13% | 242,723 | 18% | 4.9 | \$70.31 | 17.0 |
| 2017 | 60%-80% | 1,237 | 20% | 6.5 | 18% | \$26,051,158 | 19% | 190,564 | 14% | 9.5 | \$136.71 | 34.0 |
| 2017 | 80%-100% | 1,377 | 73% | 9.7 | 21% | \$28,354,967 | 21% | 250,616 | 18% | 5.5 | \$113.14 | 30.1 |
| 2017 | 100%-120% | 1,022 | 17% | 7.5 | 21% | \$27,837,813 | 20% | 280,637 | 21% | 3.6 | \$99.20 | 26.8 |
| 2017 | >120% | 1,280 | 21% | 9.8 | 28% | \$36,966,195 | 27% | 397,174 | 29% | 3.2 | \$93.07 | 24.7 |
| 2017 | Total | 6,110 | 100% | 35.5 | 100% | \$136,276,940 | 100% | 1,361,755 | 100% | 4.5 | \$100.07 | 26.1 |
| 2018 | %09> | 2,401 | 29% | 4.0 | %6 | \$26,086,684 | 14% | 234,319 | 17% | 10.2 | \$111.33 | 17.1 |
| 2018 | %08-%09 | 1,202 | 14% | 7.5 | 18% | \$29,358,919 | 16% | 219,309 | 16% | 5.5 | \$133.87 | 34.2 |
| 2018 | 80%-100% | 1,459 | 17% | 9.6 | 22% | \$37,131,885 | 20% | 232,794 | 17% | 6.3 | \$159.51 | 41.0 |
| 2018 | 100%-120% | 1,390 | 17% | 8.9 | 21% | \$36,329,227 | 20% | 278,265 | 20% | 5.0 | \$130.56 | 32.0 |
| 2018 | >120% | 1,905 | 23% | 12.9 | 30% | \$54,927,033 | 30% | 402,643 | 29% | 4.7 | \$136.42 | 31.9 |
| 2018 | Total | 8,357 | 100% | 42.8 | 100% | \$183,833,748 | 100% | 1,367,374 | 100% | 6.1 | \$134.44 | 31.3 |
| 2019 | %09> | 2,061 | 21% | 5.6 | %6 | \$49,255,818 | 19% | 234,319 | 17% | 8.8 | \$210.21 | 23.7 |
| 2019 | %08-%09 | 1,618 | 17% | 10.5 | 18% | \$39,303,987 | 16% | 219,309 | 16% | 7.4 | \$179.22 | 47.9 |
| 2019 | 80%-100% | 2,287 | 24% | 13.4 | 22% | \$49,766,699 | 20% | 232,794 | 17% | 8.6 | \$213.78 | 57.5 |
| 2019 | 100%-120% | 1,705 | 18% | 13.2 | 22% | \$51,404,895 | 20% | 278,265 | 20% | 6.1 | \$184.73 | 47.3 |
| 2019 | >120% | 1,993 | 21% | 17.0 | 29% | \$63,647,274 | 25% | 402,643 | 29% | 4.9 | \$158.07 | 42.2 |
| 2019 | Total | 9,664 | 100% | 9.65 | 100% | \$253,378,674 | 100% | 1,367,374 | 100% | 1.7 | \$185.30 | 43.6 |
| 2020 | %09> | 1,164 | 12% | 6.2 | %6 | \$26,313,313 | 10% | 234,319 | 17% | 0'9 | \$112.30 | 26.6 |
| 2020 | %08-%09 | 1,654 | 18% | 11.0 | 16% | \$40,362,848 | 16% | 219,309 | 16% | 5.7 | \$184.05 | 50.1 |
| 2020 | 80%-100% | 1,939 | 21% | 14.8 | 22% | \$54,152,622 | 22% | 232,794 | 17% | 8.3 | \$232.62 | 63.4 |
| 2020 | 100%-120% | 2,149 | 23% | 14.0 | 21% | \$52,339,311 | 21% | 278,265 | 20% | 7.7 | \$188.09 | 50.4 |
| 2020 | >120% | 2,456 | 76% | 21.3 | 32% | \$78,184,607 | 31% | 402,643 | 29% | 6.1 | \$194.18 | 53.0 |
| 2020 | Total | 9,362 | 100% | 67.3 | 100% | \$251,352,702 | 100% | 1,367,374 | 100% | 8.9 | \$183.82 | 49.2 |
| Total | %09> | 8,297 | 16% | 27.4 | %8 | \$170,018,116 | 12% | 234,319 | 17% | 35.4 | \$7.25.58 | 116.8 |
| Total | %08-%09 | 8,055 | 15% | 50.0 | 15% | \$200,066,162 | 14% | 219,309 | 16% | 2.98 | \$912.26 | 228.0 |
| Total | 80%-100% | 11,483 | 22% | 72.8 | 22% | \$299,224,393 | 21% | 232,794 | 17% | 49.3 | \$1,285.36 | 312.7 |
| Total | 100%-120% | 10,734 | 20% | 75.6 | 23% | \$317,031,485 | 22% | 278,265 | 20% | 38.6 | \$1,139.31 | 271.7 |
| Total | >120% | 13,857 | 26% | 109.6 | 33% | \$452,712,926 | 31% | 402,643 | 29% | 34.4 | \$1,124.35 | 272.2 |
| Total | Total | 52,426 | 100% | 335.3 | 100% | \$1,439,053,082 | 100% | 1,367,374 | 100% | 38.3 | \$1,052.42 | 245.2 |

Table 32. Green Bank Residential 62 Activity in Metropolitan Statistical Area (MSA) State Median Income (SMI) Bands by FY Closed 63

| Fiscal Year | MSA SMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|--------------------------------------|---|---|-------------------------------|
| 2012 | %09> | 10 | 3% | 0.1 | %8 | \$227,144 | 2% | 249,608 | 18% | 0.0 | \$0.91 | 0.2 |
| 2012 | %08-%09 | 9 | 2% | 0.0 | 7% | \$144,970 | 1% | 204,836 | 15% | 0.0 | \$0.71 | 0.2 |
| 2012 | 80%-100% | 99 | 23% | 0.4 | 21% | \$2,125,276 | 21% | 293,878 | 22% | 0.2 | \$7.23 | 1.4 |
| 2012 | 100%-120% | 7.7 | 27% | 6.0 | 26% | \$2,689,978 | 27% | 260,689 | 19% | 0.3 | \$10.32 | 2.0 |
| 2012 | >120% | 129 | 45% | 6.0 | 48% | \$4,714,144 | 48% | 351,157 | 26% | 0.4 | \$13.42 | 2.6 |
| 2012 | Total | 288 | 100% | 1.9 | 100% | \$9,901,511 | 100% | 1,360,184 | 100% | 0.2 | \$7.28 | 1.4 |
| 2013 | %09> | 32 | 3% | 0.2 | 2% | \$850,831 | 2% | 251,171 | 19% | 0.1 | \$3.39 | 8.0 |
| 2013 | %08-%09 | 55 | 5% | 6.0 | 4% | \$1,569,188 | 4% | 211,049 | 16% | 0.3 | \$7.44 | 1.5 |
| 2013 | 80%-100% | 194 | 18% | 1.3 | 16% | \$5,922,484 | 17% | 295,748 | 22% | 7.0 | \$20.03 | 4.3 |
| 2013 | 100%-120% | 223 | 20% | 1.5 | 19% | \$7,311,110 | 21% | 247,329 | 18% | 6:0 | \$29.56 | 6.1 |
| 2013 | >120% | 603 | 54% | 4.6 | %89 | \$19,736,460 | 26% | 350,547 | 26% | 1.7 | \$56.30 | 13.0 |
| 2013 | Total | 1,107 | 100% | 6.7 | 100% | \$35,390,072 | 100% | 1,355,849 | 100% | 8.0 | \$26.10 | 5.8 |
| 2014 | %09> | 122 | 5% | 9.0 | %7 | \$3,014,178 | 4% | 264,100 | 19% | 5.0 | \$11.41 | 2.4 |
| 2014 | %08-%09 | 172 | 7% | 1.0 | %9 | \$4,712,699 | %9 | 189,153 | 14% | 6:0 | \$24.91 | 5.2 |
| 2014 | 80%-100% | 697 | 27% | 3.9 | 23% | \$18,822,279 | 24% | 288,116 | 21% | 2.4 | \$65.33 | 13.6 |
| 2014 | 100%-120% | 598 | 23% | 4.1 | 25% | \$19,387,375 | 25% | 242,617 | 18% | 2.5 | \$79.91 | 17.0 |
| 2014 | >120% | 957 | 38% | 7.1 | 42% | \$31,841,435 | 41% | 372,193 | 27% | 2.6 | \$85.55 | 19.0 |
| 2014 | Total | 2,546 | 100% | 16.7 | 100% | \$77,777,966 | 100% | 1,356,206 | 100% | 1.9 | \$57.35 | 12.3 |
| 2015 | %09> | 429 | %9 | 2.2 | %5 | \$10,502,569 | 2% | 236,756 | 18% | 1.8 | \$44.36 | 9.3 |
| 2015 | %08-%09 | 854 | 13% | 5.0 | 11% | \$23,484,986 | 10% | 235,289 | 17% | 3.6 | \$99.81 | 21.4 |
| 2015 | 80%-100% | 1,433 | 21% | 10.2 | 21% | \$49,180,058 | 22% | 262,503 | 19% | 5.5 | \$187.35 | 39.0 |
| 2015 | 100%-120% | 1,786 | 27% | 12.3 | 26% | \$58,059,244 | 26% | 247,545 | 18% | 7.2 | \$234.54 | 49.6 |
| 2015 | >120% | 2,215 | 33% | 18.0 | 38% | \$83,423,261 | 37% | 370,463 | 27% | 6.0 | \$225.19 | 48.5 |
| 2015 | Total | 6,717 | 100% | 47.7 | 100% | \$224,650,117 | 100% | 1,352,583 | 100% | 5.0 | \$166.09 | 35.3 |
| 2016 | %09> | 901 | 11% | 4.2 | %2 | \$36,018,843 | 14% | 235,940 | 17% | 3.8 | \$152.66 | 17.7 |
| | | | | | | | | | | | | |

 $^{^{62}} Residential$ Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units. 63 Excludes projects in unknown bands.

| Fiscal Year | MSA SMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Hou seholds | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|----------------------|--------------------------------------|---|---|-------------------------------|
| 2016 | %08-%09 | 1,352 | 16% | 8.8 | 16% | \$37,755,434 | 14% | 235,390 | 17% | 5.7 | \$160.40 | 37.2 |
| 2016 | 80%-100% | 2,083 | 25% | 12.9 | 23% | \$58,119,286 | 22% | 278,870 | 21% | 7.5 | \$208.41 | 46.2 |
| 2016 | 100%-120% | 1,783 | 22% | 13.0 | 23% | \$56,012,607 | 21% | 248,827 | 18% | 7.2 | \$225.11 | 52.2 |
| 2016 | >120% | 2,156 | 26% | 17.1 | 31% | \$78,585,182 | 29% | 355,650 | 26% | 6.1 | \$220.96 | 48.1 |
| 2016 | Total | 8,275 | 100% | 55.9 | 100% | \$266,491,352 | 100% | 1,354,713 | 100% | 6.1 | \$196.71 | 41.2 |
| 2017 | %09> | 1,101 | 18% | 3.5 | 10% | \$14,283,007 | 10% | 227,939 | 17% | 4.8 | \$62.66 | 15.6 |
| 2017 | %08-%09 | 1,481 | 24% | 7.1 | 20% | \$29,462,231 | 22% | 235,460 | 17% | 6.3 | \$125.13 | 30.2 |
| 2017 | 80%-100% | 1,331 | 22% | 7.9 | 22% | \$29,589,187 | 22% | 285,522 | 21% | 4.7 | \$103.63 | 27.5 |
| 2017 | 100%-120% | 955 | 16% | 7.2 | 20% | \$26,302,874 | 19% | 242,028 | 18% | 3.9 | \$108.68 | 29.5 |
| 2017 | >120% | 1,242 | 20% | 9.8 | 28% | \$36,639,641 | 27% | 370,765 | 27% | 3.3 | \$98.85 | 26.5 |
| 2017 | Total | 6,110 | 100% | 35.5 | 100% | \$136,276,940 | 100% | 1,361,755 | 100% | 4.5 | \$100.07 | 26.1 |
| 2018 | %09> | 2,177 | 26% | 3.6 | 8% | \$20,039,094 | 11% | 231,517 | 17% | 9.4 | \$86.56 | 15.6 |
| 2018 | %08-%09 | 1,507 | 18% | 8.2 | 19% | \$36,761,109 | 20% | 235,228 | 17% | 6.4 | \$156.28 | 34.8 |
| 2018 | 80%-100% | 1,556 | 19% | 8.6 | 23% | \$39,092,054 | 21% | 287,930 | 21% | 5.4 | \$135.77 | 34.1 |
| 2018 | 100%-120% | 1,348 | 16% | 8.7 | 20% | \$35,603,001 | 19% | 240,427 | 18% | 5.6 | \$148.08 | 36.3 |
| 2018 | >120% | 1,769 | 21% | 12.5 | 29% | \$52,338,489 | 28% | 372,228 | 27% | 4.8 | \$140.61 | 33.6 |
| 2018 | Total | 8,357 | 100% | 42.8 | 100% | \$183,833,748 | 100% | 1,367,374 | 100% | 6.1 | \$134.44 | 31.3 |
| 2019 | %09> | 2,031 | 21% | 5.3 | %6 | \$48,158,760 | 19% | 231,517 | 17% | 8.8 | \$208.01 | 22.9 |
| 2019 | %08-%09 | 1,645 | 17% | 10.6 | 18% | \$39,667,939 | 16% | 235,228 | 17% | 7.0 | \$168.64 | 6.44 |
| 2019 | 80%-100% | 2,410 | 25% | 14.1 | 24% | \$55,286,794 | 22% | 287,930 | 21% | 8.4 | \$192.01 | 48.8 |
| 2019 | 100%-120% | 1,639 | 17% | 12.9 | 22% | \$47,608,215 | 19% | 240,427 | 18% | 6.8 | \$198.02 | 53.5 |
| 2019 | >120% | 1,939 | 20% | 16.8 | 28% | \$62,656,966 | 25% | 372,228 | 27% | 5.2 | \$168.33 | 45.2 |
| 2019 | Total | 9,664 | 100% | 59.6 | 100% | \$253,378,674 | 100% | 1,367,374 | 100% | 1.7 | \$185.30 | 43.6 |
| 2020 | %09> | 1,140 | 12% | 6.1 | %6 | \$25,719,476 | 10% | 231,517 | 17% | 4.9 | \$111.09 | 26.4 |
| 2020 | %08-%09 | 1,715 | 18% | 11.2 | 17% | \$41,604,027 | 17% | 235,228 | 17% | 7.3 | \$176.87 | 9.74 |
| 2020 | 80%-100% | 2,352 | 25% | 15.1 | 22% | \$55,822,784 | 22% | 287,930 | 21% | 8.2 | \$193.88 | 52.3 |
| 2020 | 100%-120% | 1,786 | 19% | 13.7 | 20% | \$51,158,615 | 20% | 240,427 | 18% | 7.4 | \$212.78 | 57.1 |
| 2020 | >120% | 2,369 | 25% | 21.2 | 32% | \$77,047,800 | 31% | 372,228 | 27% | 6.4 | \$206.99 | 57.0 |
| 2020 | Total | 9,362 | 100% | 67.3 | 100% | \$251,352,702 | 100% | 1,367,374 | 100% | 6.8 | \$183.82 | 49.2 |
| Total | %09> | 7,943 | 15% | 25.8 | %8 | \$158,813,901 | 11% | 231,517 | 17% | 34.3 | \$685.97 | 111.6 |

| Fiscal Year | MSA SMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|--------------------------------------|---|---|-------------------------------|
| Total | %08-%09 | 8,787 | 17% | 52.2 | 16% | \$215,162,582 | 15% | 235,228 | 17% | 37.4 | \$914.70 | 221.9 |
| Total | 80%-100% | 12,122 | 23% | 75.5 | 23% | \$313,960,201 | 22% | 287,930 | 21% | 42.1 | \$1,090.40 | 262.2 |
| Total | 100%-120% | 10,195 | 19% | 73.9 | 22% | \$304,133,020 | 21% | 240,427 | 18% | 42.4 | \$1,264.97 | 307.3 |
| Total | >120% | 13,379 | 26% | 107.9 | 32% | \$446,983,377 | 31% | 372,228 | 27% | 35.9 | \$1,200.83 | 290.0 |
| Total | Total | 52,426 | 100% | 335.3 | 100% | \$1,439,053,082 | 100% | 1,367,374 | 100% | 38.3 | \$1,052.42 | 245.2 |

In recent years the Green Bank has focused on increasing its penetration in the LMI market to deliver inclusive prosperity through the green economy. It has done so through a number of products and initiatives, among them the LMI solar incentive, its partnership with PosiGen, ongoing education to the market about the good credit quality of low and moderate income homeowners, market research made available to industry participants for targeting candidate projects (customer segmentation, demographic and geographic data), and its affordable multifamily housing energy financing products. The Green Bank has focused on increasing its penetration in the LMI market shown in Table 33 and

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Table 36 to deliver inclusive prosperity through the green economy by AMI and SMI bands.

Table 33. Green Bank Residential⁶⁴ Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands Above or Below 100% by FY Closed⁶⁵

| | | #Pr | # Project Units | | | | MW | | | Total Investment | nent | |
|--------|--------|--------|-----------------|-----------|-------|-------|-------|---------|-----------------|------------------|---------------|---------|
| | | | | | | | 100% | | | | | |
| | | Over | 100% or | | | Over | ō | % at | | | | % at |
| Fiscal | | 100% | Below | % at 100% | | 100% | Below | 100% or | | | 100% or | 100% or |
| Year | Total | AMI | AMI | or Below | Total | AMI | AMI | Below | Total | Over 100% AMI | Below AMI | Below |
| 2012 | 588 | 506 | 82 | 28% | 1.9 | 1.4 | 0.5 | 76% | \$9,901,511 | \$7,404,122 | \$2,497,389 | 25% |
| 2013 | 1,107 | 827 | 280 | 75% | 7.9 | 6.1 | 1.8 | 23% | \$35,390,072 | \$27,095,831 | \$8,294,240 | 23% |
| 2014 | 2,546 | 1,603 | 943 | 37% | 16.7 | 11.5 | 5.2 | 31% | \$77,777,966 | \$53,081,829 | \$24,696,137 | 32% |
| 2015 | 6,717 | 4,078 | 2,639 | 39% | 47.7 | 30.8 | 16.9 | 35% | \$224,650,117 | \$144,651,090 | \$79,999,027 | 36% |
| 2016 | 8,275 | 3,977 | 4,298 | 52% | 55.9 | 30.7 | 25.1 | 45% | \$266,491,352 | \$135,875,183 | \$130,616,169 | 49% |
| 2017 | 6,110 | 2,302 | 3,808 | 62% | 35.5 | 17.3 | 18.2 | 21% | \$136,276,940 | \$64,804,008 | \$71,472,931 | 52% |
| 2018 | 8,357 | 3,295 | 5,062 | 61% | 45.8 | 21.8 | 21.1 | 46% | \$183,833,748 | \$91,256,260 | \$92,577,488 | 20% |
| 2019 | 9,664 | 3,698 | 5,966 | 62% | 9.69 | 30.2 | 29.4 | 49% | \$253,378,674 | \$115,052,169 | \$138,326,505 | 25% |
| 2020 | 9,362 | 4,605 | 4,757 | 51% | 67.3 | 35.3 | 32.0 | 47% | \$251,352,702 | \$130,523,919 | \$120,828,783 | 48% |
| Total | 52,426 | 24,591 | 27,835 | 23% | 335.3 | 185.2 | 150.1 | 45% | \$1,439,053,082 | \$769,744,411 | \$669,308,671 | 47% |

 64 Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units 65 Excludes projects in unknown bands.

Table 34. Green Bank Residential 66 Performance Indicators by Participation in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands Above or Below 100% by FY Closed 67

| | | per Project 0*MW/total : | | | stment per \$000s) | MW | Investm | ent per Pro (\$) | ject Unit |
|----------------|-------|-----------------------------|-------------------------|---------|-----------------------|-------------------------|----------|---------------------|-------------------------|
| Fiscal Year | Total | Over 100% AMI | 100% or Below AMI | Total | Over 100% AMI | 100% or Below AMI | Total | Over 100% AMI | 100% or Below AMI |
| 2012 | 6.7 | 7.0 | 6.1 | \$5,103 | \$5,134 | \$5,014 | \$34,380 | \$35,942 | \$30,456 |
| 2013 | 7.1 | 7.4 | 6.4 | \$4,498 | \$4,451 | \$4,659 | \$31,969 | \$32,764 | \$29,622 |
| 2014 | 6.6 | 7.2 | 5.5 | \$4,656 | \$4,616 | \$4,744 | \$30,549 | \$33,114 | \$26,189 |
| 2015 | 7.1 | 7.6 | 6.4 | \$4,709 | \$4,694 | \$4,736 | \$33,445 | \$35,471 | \$30,314 |
| 2016 | 6.8 | 7.7 | 5.8 | \$4,769 | \$4,420 | \$5,195 | \$32,204 | \$34,165 | \$30,390 |
| 2017 | 5.8 | 7.5 | 4.8 | \$3,840 | \$3,737 | \$3,938 | \$22,304 | \$28,151 | \$18,769 |
| 2018 | 5.1 | 6.6 | 4.2 | \$4,292 | \$4,192 | \$4,395 | \$21,998 | \$27,695 | \$18,289 |
| 2019 | 6.2 | 8.2 | 4.9 | \$4,252 | \$3,816 | \$4,698 | \$26,219 | \$31,112 | \$23,186 |
| 2020 | 7.2 | 7.7 | 6.7 | \$3,734 | \$3,693 | \$3,779 | \$26,848 | \$28,344 | \$25,400 |
| Total | 6.4 | 7.5 | 5.4 | \$4,291 | \$4,156 | \$4,458 | \$27,449 | \$31,302 | \$24,046 |

TABLE 35. GREEN BANK RESIDENTIAL 68 RELATIONSHIP OF PERFORMANCE INDICATORS BETWEEN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED 69

| | KW per Project Unit | Total Investment per MW (\$000s) | Investment per Project Unit (\$) |
|----------------|--|--|--|
| Fiscal Year | Ratio of Above 100% AMI to Below 100% AMI | Ratio of Above 100% AMI to Below 100% AMI | Ratio of Above 100% AMI to Below 100% AMI |
| 2012 | 1,15 | 1.02 | 1.18 |
| 2013 | 1.16 | 0.96 | 1.11 |
| 2014 | 1.30 | 0.97 | 1.26 |
| 2015 | 1.18 | 0.99 | 1.17 |
| 2016 | 1.32 | 0.85 | 1.12 |
| 2017 | 1.58 | 0.95 | 1.50 |
| 2018 | 1.59 | 0.95 | 1.51 |
| 2019 | 1.65 | 0.81 | 1.34 |
| 2020 | 1.14 | 0.98 | 1.12 |
| Total | 1.40 | 0.93 | 1.30 |

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⁶⁶ Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units

⁶⁷ Excludes projects in unknown bands.

⁶⁸ Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units

⁶⁹ Excludes projects in unknown bands.

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Table 36. Green Bank Residential 70 Activity in Metropolitan Statistical Area (MSA) State Median Income (SMI) Bands Above or Below 100% by FY Closed 71

| | | #Pr | # Project Units | | | | MW | | | Total Investment | tment | |
|--------|---------|--------|-----------------|---------|-------|-------|---------|---------|-----------------|------------------|---------------|---------|
| | | Over | | % at | | Over | 100% or | % at | | | | % at |
| Fiscal | | 100% | 100% or | 100% or | | 100% | Below | 100% or | | Over 100% | 100% or | 100% or |
| Year | Total | SMI | Below SMI | Below | Total | SMI | SMI | Below | Total | SMI | Below SMI | Below |
| 2012 | 288 | 506 | 82 | 28% | 1.9 | 1.4 | 0.5 | 56% | \$9,901,511 | \$7,404,122 | \$2,497,389 | 25% |
| 2013 | 1,107 | 826 | 281 | 25% | 6.7 | 6.1 | 1.8 | 23% | \$35,390,072 | \$27,047,569 | \$8,342,502 | 24% |
| 2014 | 2,546 | 1,555 | 991 | 39% | 16.7 | 11.2 | 5.5 | 33% | \$77,777,966 | \$51,228,811 | \$26,549,156 | 34% |
| 2015 | 6,717 | 4,001 | 2,716 | 40% | 47.7 | 30.2 | 17.5 | 37% | \$224,650,117 | \$141,482,505 | \$83,167,612 | 37% |
| 2016 | 8,275 | 3,939 | 4,336 | 25% | 55.9 | 30.1 | 25.8 | 46% | \$266,491,352 | \$134,597,789 | \$131,893,563 | 49% |
| 2017 | 6,110 | 2,197 | 3,913 | 64% | 35.5 | 17.0 | 18.5 | 52% | \$136,276,940 | \$62,942,515 | \$73,334,425 | 54% |
| 2018 | 8,357 | 3,117 | 5,240 | %89 | 45.8 | 21.2 | 21.6 | 20% | \$183,833,748 | \$87,941,490 | \$95,892,258 | 52% |
| 2019 | 9,664 | 3,578 | 980'9 | %89 | 9.69 | 29.7 | 29.9 | 20% | \$253,378,674 | \$110,265,181 | \$143,113,492 | 26% |
| 2020 | 9,362 | 4,155 | 5,207 | %99 | 67.3 | 34.9 | 32.4 | 48% | \$251,352,702 | \$128,206,415 | \$123,146,287 | 49% |
| Total | 52, 426 | 23,574 | 28,852 | 22% | 335.3 | 181.8 | 153.5 | 46% | \$1,439,053,082 | \$751,116,397 | \$687,936,685 | 48% |
| | | | | | | | | | | | | |

 70 Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units. 71 Excludes projects in unknown bands.

TABLE 37. GREEN BANK RESIDENTIAL⁷² PERFORMANCE INDICATORS BY PARTICIPATION IN METROPOLITAN STATISTICAL AREA (MSA) STATE MEDIAN INCOME (SMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED⁷³

| | KW | per Project | Unit | | stment per \$000s) | MW | Investm | ent per Pro (\$) | ject Unit |
|----------------|-------|---------------------|-------------------------|---------|-----------------------|-------------------------|----------|---------------------|-------------------------|
| Fiscal Year | Total | Over 100% SMI | 100% or Below SMI | Total | Over 100% SMI | 100% or Below SMI | Total | Over 100% SMI | 100% or Below SMI |
| 2012 | 6.7 | 7.0 | 6.1 | \$5,103 | \$5,134 | \$5,014 | \$34,380 | \$35,942 | \$30,456 |
| 2013 | 7.1 | 7.4 | 6.4 | \$4,498 | \$4,449 | \$4,665 | \$31,969 | \$32,745 | \$29,689 |
| 2014 | 6.6 | 7.2 | 5.6 | \$4,656 | \$4,585 | \$4,800 | \$30,549 | \$32,945 | \$26,790 |
| 2015 | 7.1 | 7.6 | 6.4 | \$4,709 | \$4,679 | \$4,759 | \$33,445 | \$35,362 | \$30,621 |
| 2016 | 6.8 | 7.6 | 6.0 | \$4,769 | \$4,476 | \$5,111 | \$32,204 | \$34,171 | \$30,418 |
| 2017 | 5.8 | 7.7 | 4.7 | \$3,840 | \$3,709 | \$3,960 | \$22,304 | \$28,649 | \$18,741 |
| 2018 | 5.1 | 6.8 | 4.1 | \$4,292 | \$4,144 | \$4,437 | \$21,998 | \$28,214 | \$18,300 |
| 2019 | 6.2 | 8.3 | 4.9 | \$4,252 | \$3,715 | \$4,785 | \$26,219 | \$30,818 | \$23,515 |
| 2020 | 7.2 | 8.4 | 6.2 | \$3,734 | \$3,669 | \$3,804 | \$26,848 | \$30,856 | \$23,650 |
| Total | 6.4 | 7.7 | 5.3 | \$4,291 | \$4,131 | \$4,481 | \$27,449 | \$31,862 | \$23,844 |

TABLE 38. GREEN BANK RESIDENTIAL⁷⁴ RELATIONSHIP OF PERFORMANCE INDICATORS BETWEEN METROPOLITAN STATISTICAL AREA (MSA) STATE MEDIAN INCOME (SMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED⁷⁵

| | KW per Project Unit | Total Investment per MW (\$000s) | Investment per Project Unit (\$) |
|----------------|--|--|--|
| Fiscal Year | Ratio of Above 100% SMI to Below 100% SMI | Ratio of Above 100% SMI to Below 100% SMI | Ratio of Above 100% SMI to Below 100% SMI |
| 2012 | 1,15 | 1.02 | 1.18 |
| 2013 | 1.16 | 0.95 | 1.10 |
| 2014 | 1.29 | 0.96 | 1.23 |
| 2015 | 1,17 | 0.98 | 1.15 |
| 2016 | 1.28 | 0.88 | 1.12 |
| 2017 | 1.63 | 0.94 | 1.53 |
| 2018 | 1.65 | 0.93 | 1.54 |
| 2019 | 1.69 | 0.78 | 1.31 |
| 2020 | 1.35 | 0.96 | 1.30 |
| Total | 1.45 | 0.92 | 1.34 |

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⁷² Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units

⁷³ Excludes projects in unknown bands.

⁷⁴ Residential Owner-occupied properties of 1-4 units and multifamily housing greater than 4 units

⁷⁵ Excludes projects in unknown bands.

CONNECTICUT GREEN BANK 4. MEASURES OF SUCCESS

Distressed Communities

households owe \$2,165 more in annual energy bills than they can afford?. The Green Bank's financing products and marketing efforts seek to Connecticut's "distressed communities 76" are particularly affected by the state's high energy prices. On average, Connecticut's neediest bring lower and more predictable energy costs to homes and businesses in these communities.

Table 39. Distressed and Not Distressed Municipalities, Population, and Households in Connecticut 78

For more information on DECD Distressed Municipality criterions, click here 79

| 2019° DECD Distressed Designation |
|-----------------------------------|
| % of All Municipalities |
| 15% |
| %28 |
| 100% |

The Green Bank has steadily increased its percentage of projects deployed each year in distressed municipalities.

TABLE 40. GREEN BANK COMMERCIAL AND RESIDENTIAL ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Watts / Total Household | 0.4 |
|--|-----------|
| Total Investment / Total Household | \$2.19 |
| Project Units / 1,000 Total Households | 0.1 |
| % Total Household Distribution | 33% |
| Total Households | 447,962 |
| % Investment Distribution | 0% |
| Total Investment | \$980,813 |
| % MW Distribution | 10% |
| Installed Capacity (MW) | 0.2 |
| % Project Distribution | 12% |
| # of Project Units | 34 |
| Distres sed | Yes |
| Fiscal Year | 2012 |

⁷⁵ Distressed Municipalities are defined by the Connecticut Department of Economic and community Development by a combination of per capita income, poverty rates, unemployment rates, growth, age of buildings, education. More information can be found here: https://www.ct.gov/ecd/cwp/view.asp?a=1105&q=251248

⁷⁷ Home Energy Affordability in Connecticut: www.operationfuel.org/wp-content/uploads/2017/12/2017-Connecticut HEAG-11-27-17-RDC-edits.pdf \$2,615 is the average energy affordability gap for Households earning less than 49% of the Federal Poverty Level. For households earning less than 200% FPL (approximately 320,000 households in CT) the average energy affordability gap is

⁷⁸ As designated by DECD in 2019.

³⁹ Department of Economic and Community Development: https://portal.ct.gov/DECD/Content/About_DECD/Research-and-Publications/02_Review_Publications/Distressed Municipalities

obttps://portal.ct.gov/DECD/Content/About_DECD/Research-and-Publications/02_Review_Publications/Distressed-Municipalities

CONNECTICUT GREEN BANK 4. MEASURES OF SUCCESS

| 2012 No 2012 Total 2013 Yes 2013 No 2013 Total | sed Project Units | t % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | lotal Investment/ Total Household | Watts / Total Household |
|--|----------------------|-----------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|--|--|----------------------------|
| | 254 | 88% | 1.7 | %06 | \$8,920,698 | %0 | 912,222 | %29 | 0.3 | \$9.78 | 1.9 |
| | 1 288 | 100% | 1.9 | 100% | \$9,901,511 | 100% | 1,360,184 | 100% | 0.2 | \$7.28 | 1.4 |
| | 113 | 10% | 0.7 | %6 | \$3,294,256 | %0 | 426,564 | 31% | 0.3 | \$7.72 | 1.7 |
| | 994 | %06 | 7.2 | 91% | \$32,095,815 | %0 | 929,285 | %69 | 1.1 | \$34.54 | 7.7 |
| | 1,107 | 100% | 6.7 | 100% | \$35,390,072 | 100% | 1,355,849 | 100% | 8.0 | \$26.10 | 5.8 |
| 2014 Yes | 386 | 15% | 2.5 | 15% | \$11,738,326 | %0 | 416,415 | 31% | 6.0 | \$28.19 | 5.9 |
| 2014 No | 2,160 | 85% | 14.2 | 85% | \$66,039,640 | %0 | 939,791 | %69 | 2.3 | \$70.27 | 15.2 |
| 2014 Total | 1 2,546 | 100% | 16.7 | 100% | \$77,777,966 | 100% | 1,356,206 | 100% | 1.9 | \$57.35 | 12.3 |
| 2015 Yes | 1,518 | 23% | 9.0 | 19% | \$43,114,723 | %0 | 423,559 | 31% | 3.6 | \$101.79 | 21.2 |
| 2015 No | 5,199 | %22 | 38.7 | 81% | \$181,535,394 | %0 | 929,024 | %69 | 5.6 | \$195.40 | 41.7 |
| 2015 Total | 6,717 | 100% | 47.7 | 100% | \$224,650,117 | 100% | 1,352,583 | 100% | 5.0 | \$166.09 | 35.3 |
| 2016 Yes | 2,478 | 30% | 15.7 | 28% | \$85,721,831 | %0 | 438,710 | 32% | 5.6 | \$195.40 | 35.8 |
| 2016 No | 5,773 | 40% | 40.2 | 72% | \$180,769,521 | %0 | 916,003 | %89 | 6.3 | \$197.35 | 43.9 |
| 2016 Total | 8,251 | 100% | 6.35 | 100% | \$266,491,352 | 100% | 1,354,713 | 100% | 6.1 | \$196.71 | 41.2 |
| 2017 Yes | 2,216 | 36% | 11.4 | 32% | \$42,669,573 | %0 | 435,595 | 32% | 5.1 | \$97.96 | 26.2 |
| 2017 No | 3,894 | 64% | 24.1 | %89 | \$93,607,366 | %0 | 926,160 | %89 | 4.2 | \$101.07 | 26.0 |
| 2017 Total | 6,110 | 100% | 35.5 | 100% | \$136,276,940 | 100% | 1,361,755 | 100% | 4.5 | \$100.07 | 26.1 |
| 2018 Yes | 2,213 | 26% | 4.0 | %6 | \$21,729,559 | %0 | 430,098 | 31% | 5.1 | \$50.52 | 9.3 |
| 2018 No | 6,144 | 74% | 38.8 | 91% | \$162,104,189 | %0 | 937,276 | %69 | 6.6 | \$172.95 | 41.4 |
| 2018 Total | 1 8,357 | 100% | 42.8 | 100% | \$183,833,748 | 100% | 1,367,374 | 100% | 6.1 | \$134.44 | 31.3 |
| 2019 Yes | 3,644 | 38% | 13.8 | 23% | \$79,841,546 | %0 | 420,071 | 31% | 8.7 | \$190.07 | 32.8 |
| 2019 No | 6,020 | 62% | 45.8 | 77% | \$173,537,127 | %0 | 947,303 | %69 | 6.4 | \$183.19 | 48.4 |
| 2019 Total | 9,664 | 100% | 59.6 | 100% | \$253,378,674 | 100% | 1,367,374 | 100% | 7.1 | \$185.30 | 43.6 |
| 2020 Yes | 3,213 | 34% | 19.1 | 28% | \$74,774,045 | %0 | 420,071 | 31% | 7.6 | \$178.00 | 45.4 |
| 2020 No | 6,287 | %99 | 47.9 | 72% | \$176,017,000 | %0 | 947,303 | %69 | 9.9 | \$185.81 | 9.03 |
| 2020 Total | 009'6 | 100% | 0.79 | 100% | \$250,791,045 | 100% | 1,367,374 | 100% | 6.9 | \$183.41 | 49.0 |
| Total Yes | 15,815 | 30% | 76.3 | 23% | \$363,864,674 | %0 | 420,071 | 31% | 37.6 | \$866.20 | 181.7 |
| Total No | 36,725 | 70% | 258.7 | 77% | \$1,074,626,751 | %0 | 947,303 | %69 | 38.8 | \$1,134.41 | 273.1 |
| Total Total | 1 52,540 | 100% | 335.1 | 100% | \$1,438,491,425 | 100% | 1,367,374 | 100% | 38.4 | \$1,052.01 | 245.0 |

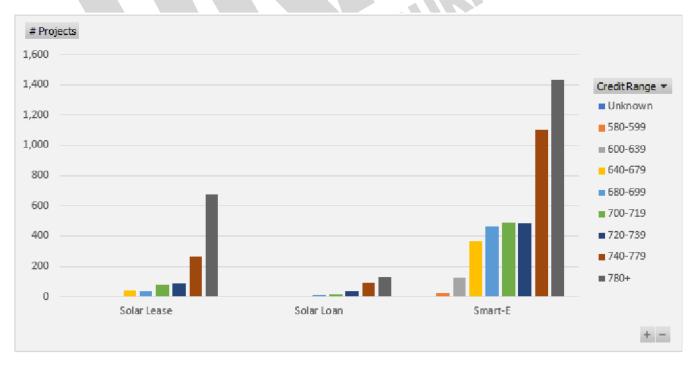
Credit Quality of Homeowners

The credit quality of borrowers in Green Bank residential financing programs that do FICO-based underwriting reflects the relatively high FICO scores in the state; 90% of single-family households that are Green Bank borrowers in these programs have a FICO of 680 or higher. The Green Bank has begun to focus on ensuring that credit-challenged customers also have access to energy financing products. Initiatives as the partnership with PosiGen, which uses an alternative underwriting approach, and a new version of the Smart-E program which broadens credit eligibility to serve credit-challenged households are examples of this. The Smart-E program now has six lenders with experience serving this market including Capital 4 Change - a Community Development Financial Institution, and all the participating credit unions.

Table 41. Credit Score Ranges of Household Borrowers Using Residential Financing Programs FY2012-FY2020

| Program Name | Unknown | 580-599 | 600-639 | 640-679 | 680-699 | 700-719 | 720-739 | 740-779 | 780+ | Grand Total |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------------|
| Solar Lease | 4 | | 1 | 45 | 39 | 78 | 85 | 264 | 673 | 1,189 |
| Solar Loan | | | | | 11 | 15 | 34 | 90 | 129 | 279 |
| Smart-E | 1 | 23 | 126 | 364 | 467 | 490 | 482 | 1,101 | 1,431 | 4,485 |
| Grand Total | 5 | 23 | 127 | 409 | 517 | 583 | 601 | 1,455 | 2, 233 | 5,953 |
| | 0% | 0% | 2% | 7% | 9% | 10% | 10% | 24% | 38% | 100% |

FIGURE 3. CREDIT SCORE RANGES OF HOUSEHOLD BORROWERS USING RESIDENTIAL FINANCING PROGRAMS



CONNECTICUT GREEN BANK 4. MEASURES OF SUCCESS

Projects by CRA Eligibility

Projects are potentially compliant with CRA requirements if they are below 80% of a Metropolitan Statistical Area's (MSA) Adjusted Median Income communities. These lending institutions are rated by regulators as to the volume of their lending to projects in these communities by regulators. The Community Reinvestment Act was enacted by Congress in 1977 to encourage depository institutions to lend in low-to-moderate-income (AMI) level

Table 42. Green Bank Commercial and Residential Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands Above or Below 80% by FY CLOSED^{81 82}

| | | #Prc | # Project Units83 | | | | MW | | | Total Investment | nent | |
|--------|--------|--------|-------------------|----------|-------|-------|--------|--------|-----------------|------------------|---------------|----------|
| | | Over | | | | Over | 80% or | % at | | | | |
| Fiscal | | %08 | 80% or | % at 80% | | %08 | Below | 80% or | | | 80% or Below | % at 80% |
| Year | Total | AMI | Below AMI | or Below | Total | AMI | AMI | Below | Total | Over 80% AMI | AMI | or Below |
| 2012 | 588 | 272 | 16 | %9 | 1.9 | 1.9 | 0.1 | 4% | \$9,901,511 | \$9,529,397 | \$372,114 | 4% |
| 2013 | 1,107 | 1,020 | 87 | 8% | 7.9 | 7.4 | 0.5 | %/ | \$35,390,072 | \$32,970,053 | \$2,420,018 | %/ |
| 2014 | 2,546 | 2,254 | 262 | 11% | 16.7 | 15.1 | 1.6 | 10% | \$77,777,966 | \$70,050,605 | \$7,727,361 | 10% |
| 2015 | 6,717 | 5,563 | 1,154 | 17% | 47.7 | 40.6 | 7.1 | 15% | \$224,650,117 | \$192,031,986 | \$32,618,131 | 15% |
| 2016 | 8,275 | 6,003 | 2,272 | 27% | 55.9 | 43.2 | 12.7 | 23% | \$266,491,352 | \$193,344,233 | \$73,147,119 | 27% |
| 2017 | 6,110 | 3,679 | 2,431 | 40% | 35.5 | 24.9 | 10.6 | 30% | \$136,276,940 | \$93,158,975 | \$43,117,964 | 32% |
| 2018 | 8,357 | 4,754 | 3,603 | 43% | 45.8 | 31.3 | 11.5 | 27% | \$183,833,748 | \$128,388,145 | \$55,445,603 | 30% |
| 2019 | 9,664 | 5,985 | 3,679 | 38% | 59.6 | 43.5 | 16.1 | 27% | \$253,378,674 | \$164,818,868 | \$88,559,806 | 35% |
| 2020 | 9,362 | 6,544 | 2,818 | 30% | 67.3 | 50.1 | 17.2 | 798 | \$251,352,702 | \$184,676,541 | \$66,676,161 | 27% |
| Total | 52,426 | 36,074 | 16,352 | 31% | 335.3 | 258.0 | 77.4 | 23% | \$1,439,053,082 | \$1,068,968,804 | \$370,084,278 | 76% |

⁸¹ Excludes projects in unknown bands.

² This table has been adjusted to include all the Low-Income Solar Lease (ESA) and Multifamily Affordable Housing projects as 80% or Below AMI regardless of which census tract the project falls

into as these programs are designed to serve the LMI market.

[∞] Project units are counted as 1 for each Cl&I, Residential 1-4 project and are the number of units in the multifamily housing development for multifamily projects.

Customer Types and Market Segments

The Connecticut Green Bank targets end users of energy in Connecticut both at work and at home. A breakdown of projects by year (2012-2020) by sector is shown in Table 44.

TABLE 43. GREEN BANK ACTIVITY IN RESIDENTIAL AND COMMERCIAL AND INDUSTRIAL MARKETS BY FY CLOSED

| Fiscal Year | # of Projects | # of Project Units | Total Investment | Installed Capacity (MW) | Expected Annual Generation (MWh) | Annual Saved / Produced (MMBtu) |
|-------------|------------------|--------------------------|-------------------|-------------------------------|---|---------------------------------------|
| | | | Commercial and In | dustrial | | |
| 2012 | 0 | 0 | \$0 | 0.0 | 0 | 0 |
| 2013 | 7 | 7 | \$75,751,144 | 15.6 | 122,597 | 432,677 |
| 2014 | 27 | 27 | \$29,371,586 | 6.7 | 32,134 | 179,454 |
| 2015 | 62 | 62 | \$98,138,894 | 14.6 | 154,406 | 519,996 |
| 2016 | 71 | 71 | \$56,497,168 | 10.2 | 25,614 | 115,260 |
| 2017 | 61 | 61 | \$54,575,841 | 14.7 | 26,297 | 373,488 |
| 2018 | 85 | 85 | \$47,799,559 | 14.1 | 18,432 | 63,341 |
| 2019 | 4,389 | 4,389 | \$84,050,045 | 8.8 | 139,488 | 34,477 |
| 2020 | 667 | 667 | \$60,525,054 | 14.3 | 88,148 | 55,284 |
| Total | 5,369 | 5,369 | \$506,709,290 | 98.9 | 607,115 | 1,773,977 |
| | | | Multifamily | | 25 | |
| 2012 | 0 | 0 | \$0 | 0.0 | 0 | 0 |
| 2013 | 0 | 0 | \$0 | 0.0 | 0 | 0 |
| 2014 | 1 | 120 | \$420,000 | 0.0 | 18 | 61 |
| 2015 | 3 | 294 | \$1,051,296 | 0.0 | 56 | 212 |
| 2016 | 19 | 1,097 | \$31,239,253 | 0.5 | 1,091 | 3,778 |
| 2017 | 15 | 1,288 | \$7,702,985 | 1.0 | 1,125 | 11,128 |
| 2018 | 18 | 1,768 | \$9,335,247 | 0.1 | 1,409 | 5,221 |
| 2019 | 15 | 1,918 | \$31,479,010 | 0.0 | 0 | 756 |
| 2020 | 10 | 886 | \$5,250,111 | 0.4 | 3,469 | 724 |
| Total | 81 | 7,371 | \$86,477,902 | 2.0 | 7, 168 | 21,879 |
| | D.A. | | Residential | | | |
| 2012 | 288 | 288 | \$9,901,511 | 1.9 | 2,210 | 7,539 |
| 2013 | 1,107 | 1,107 | \$35,390,072 | 7.9 | 8,964 | 30,591 |
| 2014 | 2,426 | 2,426 | \$77,357,966 | 16.7 | 19,435 | 65,360 |
| 2015 | 6,423 | 6,423 | \$223,598,821 | 47.7 | 55,251 | 184,536 |
| 2016 | 7,178 | 7,178 | \$235,252,099 | 55.3 | 65,270 | 220,423 |
| 2017 | 4,822 | 4,822 | \$128,573,955 | 34.5 | 44,313 | 151,682 |
| 2018 | 6,589 | 6,589 | \$174,498,501 | 42.8 | 58,511 | 196,290 |
| 2019 | 7,746 | 7,746 | \$221,899,664 | 59.6 | 74,271 | 252,415 |
| 2020 | 8,658 | 8,658 | \$246,696,194 | 66.9 | 86,948 | 298,246 |
| Total | 45, 237 | 45,237 | \$1,353,168,783 | 333.3 | 415,173 | 1,407,083 |

5. Green Bonds

The Green Bank views Green Bond issuance as a key tool for expanding the organization's reach and impact. While the organization had previously issued privately placed Clean Renewable Energy Bonds (CREB's), FY2019 marked the Green Bank's first publicly offered debt issuance, the SHREC ABS Note Series A & Series B Climate Bond. The success of this offering and the potential to use debt capital markets as a tool for accessing capital and engaging investors, led us to build a larger multi-year strategy. The "Green Bonds Us" strategy seeks to raise additional lower cost capital from individual investors through bonds, including smaller denomination bonds, to support the clean economy and accelerate deployment of clean energy.

Green Bond Framework

The Green Bank has always valued transparency as a management principle and a cornerstone of leadership. The organization believes that clear and publicly available data, allows for transactions to be replicated with ease, thus expediting the transformation of a market. With bonds, we believe the same is true and that impact investors require assurance that their investments are going to intended purpose. Ergo, the Green Bank obtained certification from the Climate Bonds Initiative (CBI) for our SHREC ABS 2019-1 Class A and Class B notes and we worked with Kestrel Verifiers to certify the issuance. CBI has built a thorough certification regime using established standards for specific technologies for which the proceeds are used and incorporating transparency and robust reporting practices.

With bond issuance at the heart of our strategy, the Green Bank needed an efficient way to operationalize the certification process. In FY 2020, the Green Bank adopted a Green Bond Framework that holds the organization to high standards of transparency and reporting on all future bond issuances. The Framework commits the organization to certify its bonds as Climate Bonds per CBI, where applicable. If no CBI Standard applies, the Green Bank will certify the issuances as Green Bonds. The Framework also commits the Green Bank to engage in regular impact reporting, which is presented in the next part of this Non-Financial Statistics section.

Working with Kestrel Verifiers and CBI, the Green Bank received programmatic certification in April 2020, thus reducing the cost, effort, and time needed to issue Certified Climate Bonds in the future. The framework and Kestrel Verifiers' Second Party Opinion on the framework are publicly available on the Green Bank's <u>website</u>.

Bond Issuances



SHREC ABS 2019-1 Class A and Class B notes

In April 2019, the Connecticut Green Bank sold \$38.6 million in investment-grade rated asset-backed securities. This first-of-its-kind issuance monetized the solar home renewable energy credits (SHRECs) generated through the Residential Solar Investment Program (RSIP). The sale was comprised of two tranches of SHRECs produced by more than 105 megawatts of 14,000 residential solar photovoltaic (PV) systems. The SHRECs were aggregated by the Green Bank and sold in annual tranches to Connecticut's two investor-owned utilities, Eversource Energy and United Illuminating Company, at a fixed, predetermined price over 15 years. The funds raised through this sale will recover the costs of administering and managing

CONNECTICUT GREEN BANK 5. GREEN BOND IMPACT

the RSIP, including the incentives offered to residential participants in the program. RSIP is discussed in further detail in the section below, Case 3 – Residential Solar Investment Program.

Use of Proceeds

One Climate Bond was issued by the Green Bank in FY20. All proceeds from the 2019-1 Class A and Class B Notes have been allocated to the SHREC Program and none are outstanding.

The notes won Environmental Finance's annual award for Innovation in 2020, highlighting the creative bond-structuring approach for leveraging additional environmental benefits.

The Green Bank will annually report on the use of proceeds from each bond issued and their impact.

The use of proceeds from the Green Bond Issuances of the Green Bank are illustrated in Table 44 below.

TABLE 44. GREEN BOND ISSUANCES

| Issuance | Gross Proceeds | Underwriting Fees & Out of Pocket Expenses | Net Bond Proceeds after Underwriting Fees & Out of Pocket Expenses | Proceeds Used | Use |
|---|-------------------|---|--|------------------|--|
| SHREC Series 2019-1 Class A and Class B | \$38,527,549.54 | \$1,018,746.00 | \$37,508,803.54 | \$37,508,803.54 | The proceeds from this offering were used to reimburse the Green Bank for incentives and program administration costs of the RSIP. |

Key Performance Indicators

In alignment with the Green Bank's targets for issuing Green Bonds, the issuance of the 2019 Notes has directly supported the organization's goal to increase annual clean energy investment on a per capita basis by a factor of ten. The Key Performance Indicators for the Green Bonds closed activity are reflected in Table 45 through Table 47.

TABLE 45. GREEN BONDS PROJECT TYPES AND INVESTMENT BY FY CLOSED

| -OR | # RE | Total | Green Bank | Private | Leverage |
|--|----------|---------------|--------------------------|---------------|----------|
| | Projects | Investment | Investment ⁸⁴ | Investment | Ratio |
| SHREC Series 2019-1 Class A and Class B | 14,026 | \$423,723,284 | \$39,664,998 | \$384,058,286 | 10.7 |

⁸⁴ Includes incentives, interest rate buydowns and loan loss reserves.

TABLE 46. GREEN BONDS PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) |
|--|-------------------------------|---|---|---------------------------------------|---|
| SHREC Series 2019-1 Class A and Class B | 108,833.9 | 123,940,091 | 3,098,502 | 422,884 | 10,572,090 |

TABLE 47. GREEN BONDS PROJECT AVERAGES BY FY CLOSED

| | | | | Average | Average |
|---------------------|------------|--------------------------|-------------------|------------|----------|
| | | | | Expected | Annual |
| | Average | Average | | Annual | Saved / |
| | Total | Incentive | Average Installed | Generation | Produced |
| | Investment | Amount | Capacity (kW) | (kWh) | (MMBtu) |
| SHREC Series 2019-1 | \$30,210 | \$2,828 | 7.8 | 8.836 | 30 |
| Class A and Class B | \$50,210 | φ z ,0 z 0 | 1.0 | 0,030 | 30 |

Societal Impacts

Ratepayers in Connecticut enjoy of the societal benefits, also referred to as social benefits, of Green Bonds. Over the course of its existence, the SHREC Series 2019-1 issuance has supported creation of 5,662 job years, avoided the lifetime emission of 1,734,304 tons of carbon dioxide, 1,802,197 pounds of nitrous oxide, 1,454,681 pounds of sulfur oxide, and 151,023 pounds of particulate matter as illustrated by Table 48 and Table 50. These projects are estimated to have generated \$14 million in tax revenue in their construction for the state of CT as shown in Table 49. The lifetime economic value of the public health impacts are estimated between \$5.4 and \$135 million as illustrated in Table 51. See Calculations and Assumptions in the appendix for the metrics included in the following tables.

TABLE 48. GREEN BONDS JOB YEARS SUPPORTED BY FY CLOSED

| 00 | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|--|----------------|------------------------------------|---------------|
| SHREC Series 2019-1 Class A and Class B | 2,240 | 3,422 | 5,662 |

TABLE 49. GREEN BONDS TAX REVENUES GENERATED BY FY CLOSED

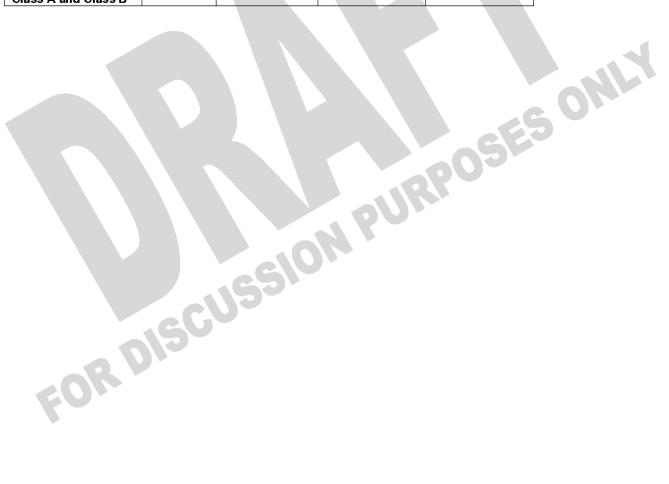
| | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|---|--|--|-----------------------------------|-----------------------------------|
| SHREC Series 2019-1 Class A and Class B | \$10,655,425 | \$3,422,243 | \$0 | \$14,077,668 |

TABLE 50. GREEN BONDS AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emissions Avoided (tons) | | NOx Emissions Avoided (pounds) | | SOx Emissions Avoided (pounds) | | PM 2.5 (pounds) | |
|--|------------------------------|-----------------|-----------------------------------|-----------|-----------------------------------|-----------|-----------------|----------|
| | Annual | Annual Lifetime | | Lifetime | Annual | Lifetime | Annual | Lifetime |
| SHREC Series 2019-1 Class A and Class B | 69,372 | 1,734,304 | 72,088 | 1,802,197 | 58,187 | 1,454,681 | 6,041 | 151,023 |

TABLE 51. GREEN BONDS PUBLIC HEALTH IMPACT BY FY CLOSED

| | Δ | nnual | Life | time |
|--|-------------|-------------|--------------|---------------|
| | Low | High | Low | High |
| SHREC Series 2019-1 Class A and Class B | \$2,404,342 | \$5,428,359 | \$60,108,541 | \$135,708,975 |



6. Programs

Program Logic Model and the Financing Market Transformation Strategy

The Connecticut Green Bank has prepared an Evaluation Framework⁸⁵ and developed a Program Logic Model (PLM) that presents the green bank model of attracting and deploying private capital through financing – see Figure 4. In addition to representing graphically how a program is structured, this PLM serves as a foundation for evaluating clean energy deployment through subsidy and financing programs of the Connecticut Green Bank.

FIGURE 4. CONNECTICUT GREEN BANK PROGRAM LOGIC MODEL - INCLUDING SUBSIDIES AND FINANCING



The above figure is a generalized market transformation and impact logic model. It has been adapted to individual Green Bank programs to incorporate the unique circumstances of each of those programs, enabling a clearer definition of program objectives and of metrics for reporting and future evaluation. Additionally, with the continued maturation of the organization's programs, more data are becoming available to quantify and present the societal impacts associated with those programs.

As the Green Bank's available capital expands to support more clean energy deployment, greater coordination with utilities is sought. As such, various other key participants have been included in this overall logic model. Beginning by identifying the multitude of interactions that occur across their respective programs, the Green Bank and the utilities will be better prepared to accommodate the

⁸⁵ Evaluation Framework – Assessing, Monitoring, and Reporting of Program Impacts and Processes by Opinion Dynamics and Dunsky Energy Consulting for the Connecticut Green Bank (July 2016)

CONNECTICUT GREEN BANK 6. PROGRAMS – PROGRAM LOGIC MODEL

funding demands of clean energy projects over the short, medium, and long term. In addition, the model facilitates the identification and capture of known interventions in the clean energy environment, which may impact the trajectory of the Green Bank's financing efforts over time.

The PLM includes three (3) components – Energize CT Market Environment (including Other Ongoing Market Activities), Green Bank Financing Market Transformation Process, and Societal Impacts.

Energize CT Market Environment

Energize CT is an initiative of the Green Bank, the Connecticut Energy Efficiency Fund, the State, and the local electric and gas utilities. It provides Connecticut consumers, businesses and communities the resources and information they need to make it simple to save energy and build a clean energy future for everyone in the state. Under this umbrella, the electric and gas investor owned utilities (IOUs) provide information, marketing, and deliver the energy efficiency programs that have been approved by the State and supported by the Connecticut Energy Efficiency Fund. Operating under a statutory mandate that all cost-effective energy efficiency be acquired, with guidance from the Connecticut Energy Efficiency Board and its consultants, the utilities offer a variety of programs and encouragements for residential, commercial, and industrial customers to make decisions to participate in these cost-reducing opportunities. A range of methods is used to encourage customers to participate in the programs, among them targeted information, low cost/no cost measures, financial incentives, discounted retail products, and product and project financing. The Connecticut Green Bank, with a statutorily established residential solar PV target of 350 MW86 on or before December 31, 2022, also markets and delivers its clean energy programs to residential customers. Informed by aggregate consumer and demographic data, the Green Bank promotes its programs and market offerings with direct incentives and financing opportunities in addition to a host of marketing, communication and outreach tools.87

Within the Green Bank's current programs, only participants in the Residential Solar Investment Program (RSIP) are required to receive a home energy assessment through the utility-administered Home Energy Solutions (HES) program⁸⁸, the DOE Home Energy Score, or an alternate RSIP-approved energy assessment conducted by a <u>BPI</u>⁸⁹ or equivalently credentialed professional. Having satisfied the program's qualifying energy producing measures, RSIP participants may also receive rebates or incentives from the utilities (intended to overcome barriers to customer participation and/or encourage increased selection of energy efficient measures), or other levels of government (e.g., state incentives and Federal tax credits for several energy saving technologies), as well as opportunities to access affordable financing for some or all of the remaining portion of their clean energy project. In the context of a PLM, one may also anticipate similar links between the Green Bank programs and those of the investor owned utilities (IOU's).

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⁸⁶ Updated by PA 19-35. https://www.cga.ct.gov/2019/ACT/pa/pdf/2019PA-00035-R00HB-05002-PA.pdf, passed June 28, 2019

⁸⁷ Per Public Act 15-194 "An Act Concerning the Encouragement of Local Economic Development and Access to Residential Renewable Energy," the Connecticut Green Bank administers a rebate and performance-based incentive program to support solar PV.

⁸⁸ https://www.energizect.com/your-home/solutions-list/home-energy-solutions-core-services

⁸⁹ http://www.bpi.org/about-us

CONNECTICUT GREEN BANK 6. PROGRAMS – PROGRAM LOGIC MODEL

The impetus behind increased coordination among the utility administered energy efficiency programs and the Green Bank's programs is threefold: 1) more energy savings, and resulting emissions reductions, are expected to be acquired more economically both to the programs and to the project participants, 2) delivery efficiencies and greater savings could be found in coordinating financing that each entity offers to common customer segments within the sphere of program activities that they offer, and 3) coordination through a Joint Committee of the Energy Efficiency Board and the Connecticut Green Bank is required by statute.⁹⁰ It is important to note that a number of other ongoing market activities are occurring through Energize CT or outside of the Green Bank's market transformation process. From introducing new products, reducing purchasing barriers, education and awareness programs to workforce development, and improving building practices – there are a variety of activities that help move the market toward more clean energy deployment.

Finance Market Transformation Process

The efforts of the Green Bank are exemplified through the financing market transformation process which focuses on accelerating the deployment of clean energy – more customers and "deeper" more comprehensive measures being undertaken – by securing increasingly affordable and attractive private capital. The Green Bank can enter the process at several points (i.e., from numbers 2 through 4 in the above PLM figure), such as supplying capital through financing offers, marketing clean energy financing, or offsetting clean energy financing risk by backstopping loans, or sharing loan performance data.

Below is a breakdown of each component of the financing market transformation process of the Green Bank:

- <u>Supply of Capital</u> financing programs aim to increase the supply of affordable and attractive
 capital available to support energy savings and clean energy production in the marketplace. This
 is done at the Green Bank by:
 - a. Providing financing (loans or leases) to customers using Green Bank capital; and/or
 - Establishing structures, programs, and public-private partnerships that connect third-party capital to support energy savings projects.

Beyond ensuring that financing is available for clean energy projects, the Green Bank's Supply of Capital interventions can lead to, but are not limited to benefits such as:

- a. Reduced interest rates, which lower the cost of capital for clean energy projects;
- b. More loan term options to better match savings cash flows (e.g., longer terms for longer payback projects, early repayment, or deferred first year payments);
- c. Less restrictive underwriting criteria, resulting in increased eligibility and access to financing; and

-

⁹⁰ Pursuant to Section 15-245m(d)(2) of Connecticut General Statutes, the Joint Committee shall examine opportunities to coordinate the programs and activities contained in the plan developed under Section 16-245n(c) of the General Statutes [Comprehensive Plan of the Connecticut Green Bank] with the programs and activities contained in the plan developed under section 16-245m(d)(1) of the General Statutes [Energy Conservation and Load Management Plan] and to provide financing to increase the benefits of programs funded by the plan developed under section 16-245m(d)(1) of the General Statutes so as to reduce the long-term cost, environmental impacts, and security risks of energy in the state.

d. Increased marketing efforts by lenders to leverage clean energy investment opportunities.

Each of these features is intended to increase uptake of clean energy projects, leading to increased energy savings, clean energy production, and other positive societal impacts. The long-term goal of the Green Bank's efforts is to achieve these attractive features in the market with a reduced need for Green Bank intervention, through the provision of performance data that convinces private capital providers to offer such features on their own.

- Consumer Demand in combination with a comprehensive set of clean energy programs under the Energize CT initiative, offered by the utilities, the Green Bank drives consumer demand for clean energy by marketing financing programs and increasing awareness of the potential benefits stemming from clean energy projects through the range of programs it offers. It should also be noted that through channel marketing strategies (e.g., contractor channels to the customer) success will be determined by an increase in demand for financing. The results of the increased demand are expected to, but are not limited to:
 - a. Increase in the number of clean energy projects; and
 - b. Increase in the associated average savings and/or clean energy production per project.

Increasing affordable and attractive financing offerings in the marketplace is an important component of unlocking consumer demand and driving greater energy savings and clean energy production and is central to the Green Bank's market transformation efforts.

Financing Performance Data – Green Bank gathers and communicates the performance of clean energy financing either through its own programs or for other financing options in the marketplace. This increases access to valuable information that can help lenders and customers identify promising clean energy investments. Enabling access to this information (i.e., data transparency) is important to encouraging market competition.

Ultimately, data on the performance of Green Bank sponsored financial products is expected to continue to play a pivotal role in the attraction of private capital directed toward more affordable and accessible financing offerings. As the Green Bank increases the access to affordable and attractive capital, and more customers use this financing for their clean energy projects, data demonstrating strong and reliable performance of these projects is also expected to enable lower interest rates due to a better-informed assumption of risk.

Financing Risk Profile – Green Bank can help reduce clean energy financing risk profiles in many ways. For example, it can absorb a portion or all the credit risk by providing loan loss reserve (LLR) funds and guarantees or taking the first-loss position on investments (i.e., subordinated debt). It can also channel or attract rebates and incentives to finance energy saving projects thus improving their economic performance and lowering the associated performance risk. In the long run, by making clean energy financing performance data available to the market, Green Bank programs increase lenders' and borrowers' understanding of clean energy investment risk profiles, which is expected to enable them to (1) design more affordable and attractive financing products and (2) select projects for financing to reduce risks.

This element of the PLM plays the key linking role in the Market Transformation feedback loop, leading to longer term impacts, as the market (1) recognizes the expected advantageous risk/return profile associated with clean energy investments and (2) takes further steps to increase the supply of affordable and attractive capital with less Green Bank credit enhancement needed to support demand for clean energy investments.

Ensuring that financing performance and risk profile data are available to the market is important from various perspectives. For a deeper examination and presentation, please see the report by the State Energy Efficiency Action Network.⁹¹

Societal Impact

The efforts to accelerate and scale-up investment in clean energy deployment by the Green Bank, lead to a myriad of societal impacts and benefits.

All the PLM elements ultimately aim to contribute to Green Bank program impacts and benefits. These include the direct increase in energy savings and improvement of public health (e.g., asbestos remediation, lead abatement, etc.) to the customer, increase in the creation of local in-state jobs, and the reduction of greenhouse gas emissions for society. The impacts may also include consideration of secondary or indirect benefits such as GDP growth and energy savings supported by lenders who have leveraged Green Bank data or marketing efforts.

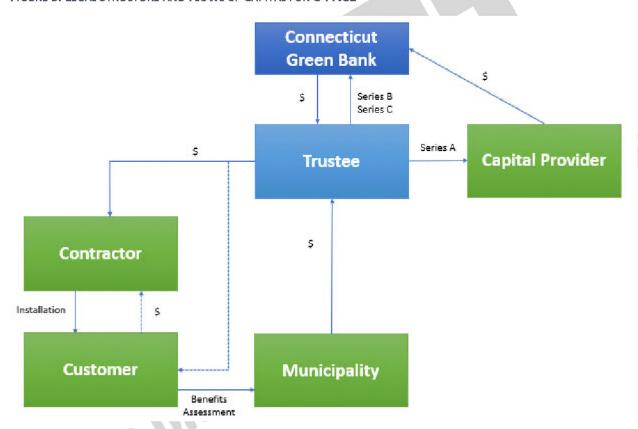
⁹¹ State and Local Energy Efficiency Action Network. (2014). Energy Efficiency Finance Programs: Use Case Analysis to Define Data Needs and Guidelines. Prepared by: Peter Thompson, Peter Larsen, Chris Kramer, and Charles Goldman of Lawrence Berkeley National Laboratory. Click here (http://www4.eere.energy.gov/seeaction/publication/energy-efficiency-finance-programs-use-case-analysis-define-data-needs-and-guidelines)

Case 1 - C-PACE

Description

Commercial Property Assessed Clean Energy (C-PACE) enables building owners to pay for clean energy improvements or clean energy production projects over time through a voluntary benefit assessment on their property tax bills. This process makes it easier for building owners to secure low-interest, long-term capital to fund energy improvements and is structured so that energy savings more than offset the benefit assessment.

FIGURE 5. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR C-PACE



For a municipality to participate in the C-PACE program, its legislative body must pass a resolution enabling it to enter into an agreement with the Connecticut Green Bank to assess, collect, remit, and assign benefit assessments against C-PACE borrowers' liabilities. As of June 30, 2020, there are 135 cities and towns signed up for C-PACE representing more than 90% of commercial and industrial building space in Connecticut. Additionally, as of June 30, 2020, nearly \$185 million in C-PACE benefit assessment advances have been closed that are expected to save over \$286 million in avoided energy costs over the life of the projects.

Key Performance Indicators

The Key Performance Indicators for C-PACE closed activity are reflected in Table 52 through Table 55. These illustrate the volume of projects by year, investment, generation capacity installed, and the

amount of energy saved and/or produced. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.

TABLE 52. C-PACE PROJECT TYPES AND INVESTMENT BY FY CLOSED

| Fiscal | | | | | # | Total | Green Bank | Private | Leverage |
|--------|----|-----|-------|-------|----------|--------------------------|--------------------------|---------------|----------|
| Year | EE | RE | RE/EE | Other | Projects | Investment ⁹² | Investment ⁹³ | Investment | Ratio |
| 2012 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2013 | 2 | 0 | 1 | 0 | 3 | \$1,512,144 | \$210,302 | \$1,301,842 | 7.2 |
| 2014 | 6 | 14 | 3 | 0 | 23 | \$21,785,167 | \$9,550,120 | \$12,235,046 | 2.3 |
| 2015 | 10 | 30 | 9 | 0 | 49 | \$33,716,566 | \$13,913,876 | \$19,802,690 | 2.4 |
| 2016 | 10 | 35 | 8 | 0 | 53 | \$36,728,026 | \$7,862,683 | \$28,865,342 | 4.7 |
| 2017 | 5 | 27 | 6 | 0 | 38 | \$15,487,305 | \$4,459,609 | \$11,027,696 | 3.5 |
| 2018 | 10 | 46 | 9 | 1 | 66 | \$26,732,114 | \$6,432,768 | \$20,299,346 | 4.2 |
| 2019 | 2 | 33 | 3 | 0 | 38 | \$21,482,788 | \$6,944,679 | \$14,538,109 | 3.1 |
| 2020 | 3 | 37 | 5 | 0 | 45 | \$27,518,093 | \$4,762,380 | \$22,755,713 | 5.8 |
| Total | 48 | 222 | 44 | 1 | 315 | \$184,962,202 | \$54, 136, 417 | \$130,825,785 | 3.4 |

TABLE 53. C-PACE PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| | Installed | Expected Annual | Expected Lifetime | Annual Saved / | Lifetime Saved / | | |
|--------|------------------|--------------------|-------------------|-------------------|---------------------|--------------|---------------|
| Fiscal | Capacity (kW) | Generation | Savings or | Produced | Produced | Annual Cost | Lifetime Cost |
| Year | (, | (kWh) | Generation (MWh) | (MMBtu) | (MMBtu) | Savings | Savings |
| 2012 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2013 | 101.0 | 513,495 | 7,657 | 2,021 | 32,845 | \$132,907 | \$2,538,186 |
| 2014 | 3,631.0 | 8,409,814 | 154,673 | 36,264 | 716,930 | \$1,905,050 | \$40,635,908 |
| 2015 | 7,275.9 | 14,301,795 | 308,545 | 41,464 | 877,020 | \$2,792,189 | \$58,534,753 |
| 2016 | 6,367.7 | 15,315,444 | 278,056 | 59,323 | 1,125,290 | \$3,842,877 | \$82,458,936 |
| 2017 | 3,916.4 | 6,142,726 | 131,693 | 21,662 | 466,881 | \$813,966 | \$15,172,649 |
| 2018 | 7,284.8 | 10,700,244 | 236,250 | 36,959 | 817,285 | \$972,755 | \$25,889,113 |
| 2019 | 5,219.3 | 10,394,443 | 202,121 | 21,169 | 406,759 | \$680,488 | \$20,682,469 |
| 2020 | 6,141.4 | 9,874,585 | 246,312 | 23,744 | 591,726 | \$578,585 | \$40,172,130 |
| Total | 39,937.6 | 75,652,546 | 1,565,307 | 242,607 | 5,034,735 | \$11,718,818 | \$286,084,143 |

TABLE 54. C-PACE PROJECT AVERAGES BY FY CLOSED

| | ~ (1) | Average | Average | Average Annual | Average | Average |
|--------|---------------|-----------|---------------|------------------|--------------|---------|
| Fiscal | Average Total | Amount | Installed | Saved / Produced | Finance Term | Finance |
| Year | Investment | Financed | Capacity (kW) | (MMBtu) | (years) | Rate |
| 2012 | \$0 | \$0 | 0.0 | 0 | 0 | 0.00 |
| 2013 | \$504,048 | \$70,101 | 33.7 | 674 | 17 | 5.33 |
| 2014 | \$947,181 | \$415,223 | 157.9 | 1,577 | 18 | 5.91 |
| 2015 | \$688,093 | \$283,957 | 148.5 | 846 | 18 | 5.79 |
| 2016 | \$692,982 | \$148,353 | 130.0 | 1,119 | 18 | 5.77 |

⁹² Includes closing costs and capitalized interest for C-PACE and the Fair Market Value for Commercial Leases.

⁹³ Includes incentives, interest rate buydowns and loan loss reserves.

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| Fiscal | Average Total | Average Amount | Average Installed | Average Annual Saved / Produced | Average Finance Term | Average Finance |
|--------|---------------|-------------------|----------------------|------------------------------------|-------------------------|--------------------|
| Year | Investment | Financed | Capacity (kW) | (MMBtu) | (years) | Rate |
| 2017 | \$407,561 | \$117,358 | 103.1 | 570 | 17 | 5.66 |
| 2018 | \$405,032 | \$97,466 | 113.8 | 560 | 16 | 5.84 |
| 2019 | \$565,337 | \$182,755 | 137.4 | 557 | 19 | 6.03 |
| 2020 | \$611,513 | \$105,831 | 139.6 | 528 | 17 | 6.00 |
| Total | \$587,182 | \$171,862 | 129.7 | 770 | 17 | 5.85 |

TABLE 55. C-PACE PROJECT APPLICATION YIELD 94 BY FY RECEIVED 95

| Fiscal | Applications | Projects in | Projects | Projects | Applications | Approved | Denied |
|--------|--------------|----------------|----------|-----------|--------------|----------|--------|
| Year | Received | Review/On Hold | Approved | Withdrawn | Denied | Rate | Rate |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0% | 0% |
| 2013 | 55 | 1 | 25 | 27 | 2 | 96% | 4% |
| 2014 | 146 | 21 | 44 | 80 | 1 | 99% | 1% |
| 2015 | 144 | 26 | 51 | 63 | 4 | 97% | 3% |
| 2016 | 111 | 29 | 44 | 33 | 5 | 94% | 6% |
| 2017 | 98 | 10 | 47 | 39 | 2 | 98% | 2% |
| 2018 | 80 | 12 | 56 | 12 | 0 | 100% | 0% |
| 2019 | 63 | 8 | 42 | 13 | 0 | 100% | 0% |
| 2020 | 73 | 14 | 48 | 9 | 2 | 97% | 3% |
| Total | 770 | 121 | 357 | 276 | 16 | 98% | 2% |

C-PACE has been used as a financing tool across a wide variety of end-use customers in Connecticut in its 8 years of existence as illustrated by Table 56.

TABLE 56. Types of End-Use Customers Participating in C-PACE

| Property Type | # of Properties | Square Footage | Average Square Footage per Property |
|------------------------------------|-----------------|----------------|---|
| Agricultural | 3 | 10,904 | 10,904 |
| Athletic/Recreational Facility | 5 | 69,372 | 34,686 |
| Education | 5 | 170,258 | 56,753 |
| Hotel | 2 | 185,059 | 92,530 |
| House of Worship | 11 | 114,462 | 22,892 |
| Industrial | 76 | 3,375,101 | 47,537 |
| Multi-family/apartment (> 5 units) | 15 | 625,014 | 44,644 |
| Non-profit | 25 | 629,492 | 33,131 |

-

⁹⁴ Applications received are complete initial applications that have been received for C-PACE financing. Applications denied are any initial applications received for C-PACE financing that do not meet programmatic requirements. Projects in review are projects that are being reviewed, either technically or financially, prior to being approved. Projects approved are projects that have gone through technical and financial underwriting and have met all the necessary programmatic requirements. These include projects that have been approved and are waiting to dose, projects that have closed, and projects that have completed construction and are in repayment. Projects withdrawn are projects that have been approved at the application stage but have since fallen out of our pipeline for numerous reasons and are no longer active. Projects in this category could have fallen out of our pipeline in the in review or the approved stage.

⁹⁵ This table represents projects whose initial applications have been approved and are proceeding through the C-PACE financing pipeline prior to loan closure.

| Property Type | # of Properties | Square Footage | Average Square Footage per Property |
|-----------------------------|-----------------|----------------|---|
| Nursing Home/Rehab Facility | 1 | 175,680 | 175,680 |
| Office | 82 | 4,875,711 | 66,791 |
| Public assembly | 4 | 139,000 | 46,333 |
| Retail | 68 | 1,912,858 | 28,983 |
| Special Purpose | 3 | 78,380 | 26,127 |
| Warehouse & storage | 15 | 655,050 | 46,789 |
| Grand Total | 315 | 13,016,341 | 46,990 |

To date, 135 municipalities have opted into the C-PACE program resulting in 315 closed projects – see Table 57.

TABLE 57. MUNICIPALITIES PARTICIPATING IN C-PACE

| Table 57. | | |
|------------------------------|---------------------|-------------------|
| TABLE 57. MUNICIPALITIES PAR | TICIPATING IN C-PAC | E |
| Municipality | Opt in Date | # Closed Projects |
| Ansonia | 7/9/2013 | 1 |
| Avon | 4/1/2013 | 2 |
| Barkhamsted | 6/24/2014 | 0 |
| Beacon Falls | 1/14/2013 | 0 |
| Berlin | 9/3/2013 | 2 |
| Bethany | 3/24/2015 | 1 |
| Bethel | 8/6/2013 | 2 |
| Bloomfield | 6/10/2013 | 2 |
| Bolton | 4/7/2020 | 0 |
| Branford | 7/10/2013 | 2 |
| Bridgeport | 9/17/2012 | 18 |
| Bristol | 11/12/2014 | 11 |
| Brookfield | 8/5/2013 | 4 |
| Burlington | 1/25/2016 | 0 |
| Canaan | 7/23/2013 | 1 |
| Canterbury | 11/5/2014 | 0 |
| Canton | 5/8/2013 | 1 |
| Cheshire | 9/9/2014 | 1 |
| Chester | 7/23/2013 | 0 |
| Clinton | 5/29/2013 | 4 |
| Columbia | 9/3/2014 | 0 |
| Coventry | 3/18/2013 | 0 |
| Cromwell | 4/9/2014 | 1 |
| Danbury | 5/7/2013 | 4 |
| Darien | 2/24/2014 | 8 |
| Deep River | 7/22/2014 | 1 |
| Durham | 11/19/2012 | 1 |
| East Granby | 6/26/2013 | 0 |

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| Municipality | Opt in Date | # Closed Projects |
|---------------|-------------|-------------------|
| East Haddam | 5/8/2013 | 2 |
| East Hampton | 7/9/2013 | 0 |
| East Hartford | 3/1/2013 | 4 |
| East Haven | 2/7/2017 | 2 |
| East Lyme | 9/3/2014 | 3 |
| East Windsor | 10/21/2013 | 8 |
| Eastford | 11/10/2014 | 0 |
| Easton | 2/23/2015 | 0 |
| Ellington | 8/25/2014 | 1 |
| Enfield | 12/2/2013 | 2 |
| Essex | 7/16/2014 | 2 |
| Fairfield | 9/23/2013 | 7 |
| Farmington | 12/10/2013 | 7 |
| Franklin | 10/5/2015 | 0 |
| Glastonbury | 6/19/2013 | 3 |
| | 10/7/2013 | |
| Granby | | 0 |
| Greenwich | 4/8/2013 | 2 |
| Griswold | 2/23/2016 | 1 |
| Groton | 9/3/2013 | 2 |
| Guilford | 3/21/2016 | 1 |
| Haddam | 6/29/2015 | 0 |
| Hamden | 3/3/2014 | 2 |
| Hartford | 10/22/2012 | 27 |
| Hebron | 10/6/2016 | 0 |
| Kent | 6/3/2014 | 0 |
| Killingly | 11/18/2014 | 0 |
| Killingworth | 5/20/2013 | 2 |
| Lebanon | 5/4/2015 | 0 |
| Ledyard | 1/13/2016 | 1 |
| Madison | 8/25/2014 | 2 |
| Manchester | 5/7/2013 | 7 |
| Mansfield | 8/12/2013 | 0 |
| Meriden | 5/20/2013 | 4 |
| Middlefield | 6/16/2015 | 0 |
| Middletown | 1/7/2013 | 9 |
| Milford | 6/3/2013 | 2 |
| Monroe | 2/27/2017 | 0 |
| Montville | 11/26/2013 | 1 |
| Naugatuck | 6/17/2014 | 2 |
| New Britain | 7/17/2013 | 11 |
| New Canaan | 7/16/2014 | 0 |
| New Fairfield | 3/28/2019 | 0 |
| New Hartford | 9/14/2017 | 0 |

| Municipality | Opt in Date | # Closed Projects |
|------------------|-------------|-------------------|
| New Haven | 10/21/2013 | 3 |
| New London | 5/6/2013 | 9 |
| New Milford | 5/28/2013 | 3 |
| Newington | 10/28/2014 | 2 |
| Newtown | 5/15/2013 | 4 |
| Norfolk | 5/12/2014 | 0 |
| North Branford | 5/21/2013 | 0 |
| North Canaan | | 2 |
| | 12/30/2013 | |
| North Haven | 7/24/2014 | 2 |
| North Stonington | 2/23/2015 | 2 |
| Norwalk | 9/26/2012 | 4 |
| Norwich | 9/16/2013 | 2 |
| Old Lyme | 1/25/2016 | 0 |
| Old Saybrook | 2/20/2013 | 1 |
| Orange | 5/11/2016 | 0 |
| Oxford | 1/12/2016 | 2 |
| Plainfield | 2/23/2016 | 1 |
| Plainville | 6/17/2013 | 3 |
| Plymouth | 1/9/2019 | 0 |
| Pomfret | 9/16/2019 | 0 |
| Portland | 9/18/2013 | 1 |
| Preston | 10/23/2014 | 0 |
| Putnam | 2/1/2013 | 4 |
| Redding | 10/20/2015 | 0 |
| Ridgefield | 2/21/2018 | 3 |
| Rocky Hill | 9/16/2013 | 3 |
| Salisbury | 8/11/2016 | 0 |
| Seymour | 1/27/2014 | 0 |
| Sharon | 2/21/2014 | 0 |
| Shelton | 9/11/2014 | 2 |
| Simsbury | 12/12/2012 | 1 |
| Somers | 5/23/2014 | 2 |
| South Windsor | 6/2/2014 | 3 |
| Southbury | 2/7/2013 | 0 |
| Southington | 5/13/2013 | 3 |
| Sprague | 12/30/2013 | 0 |
| Stafford | 9/26/2013 | 0 |
| Stamford | 1/7/2013 | 15 |
| Stonington | 1/30/2014 | 2 |
| Stratford | 2/23/2013 | 4 |
| Suffield | 5/1/2013 | 0 |
| | | |
| Thomaston | 2/4/2016 | 1 |
| Tolland | 4/9/2013 | 0 |

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| Municipality | Opt in Date | # Closed Projects |
|---------------|-------------|-------------------|
| Torrington | 5/6/2013 | 1 |
| Trumbull | 6/3/2013 | 2 |
| Vernon | 7/16/2013 | 4 |
| Washington | 5/16/2019 | 1 |
| Waterbury | 5/6/2013 | 7 |
| Waterford | 6/3/2013 | 1 |
| Watertown | 2/20/2014 | 6 |
| West Hartford | 12/20/2012 | 2 |
| West Haven | 10/28/2013 | 3 |
| Westbrook | 5/1/2013 | 0 |
| Weston | 8/18/2014 | 1 |
| Westport | 1/8/2013 | 4 |
| Wethersfield | 5/20/2013 | 1 |
| Willington | 6/16/2014 | 1 |
| Wilton | 2/1/2013 | 2 |
| Windham | 12/18/2012 | 1 |
| Windsor | 5/6/2013 | 2 |
| Windsor Locks | 7/9/2013 | 2 |
| Woodbridge | 5/20/2014 | 5 |
| Woodbury | 3/17/2015 | 1 |
| Woodstock | 3/23/2016 | 0 |
| Total | 135 | 315 |
| FORD | SCUS | SION |

Area Median Income Band Penetration

C-PACE has been used to fund projects in economically diverse locations across the state as reflected by Table 58 for Metropolitan Statistical Area (MSA) Area Median Income (AMI). It should be noted that C-PACE is not an income targeted program.

Table 58. C-PACE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS BY FY CLOSED⁹⁶

| Fiscal Year | MSA AMI Band | #of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|----------------|-----------------|-------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------------------|-------------------------------------|-----------------------|
| 2012 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 609,363 | 17% | 0.0 | \$0.00 | 0.0 |
| 2012 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 527,217 | 15% | 0.0 | \$0.00 | 0.0 |
| 2012 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 589,440 | 17% | 0.0 | \$0.00 | 0.0 |
| 2012 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 722,664 | 20% | 0.0 | \$0.00 | 0.0 |
| 2012 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,116,395 | 31% | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 3,572,213 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | %09> | - | 33% | 0.0 | %0 | \$150,877 | 10% | 604,433 | 17% | 0.0 | \$0.25 | 0.0 |
| 2013 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 568,952 | 16% | 0.0 | \$0.00 | 0.0 |
| 2013 | 80%-100% | - | 33% | 0.1 | 100% | \$711,251 | 47% | 588,813 | 16% | 0.0 | \$1.21 | 0.2 |
| 2013 | 100%-120% | _ | 33% | 0.0 | %0 | \$650,016 | 43% | 690,591 | 19% | 0.0 | \$0.94 | 0.0 |
| 2013 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,131,305 | 31% | 0.0 | \$0.00 | 0.0 |
| 2013 | Total | 3 | 100% | 0.1 | 100% | \$1,512,144 | 100% | 3,592,053 | 100% | 0.0 | \$0.42 | 0.0 |
| 2014 | %09> | 7 | %08 | 0.5 | 14% | \$6,432,379 | %0E | 614,135 | 17% | 0.0 | \$10.47 | 0.8 |
| 2014 | %08-%09 | 1 | 4% | 0.1 | 2% | \$243,296 | 1% | 546,132 | 15% | 0.0 | \$0.45 | 0.1 |
| 2014 | 80%-100% | 9 | 26% | 2.1 | 29% | \$6,435,779 | 30% | 577,061 | 16% | 0.0 | \$11.15 | 3.7 |
| 2014 | 100%-120% | 3 | 13% | 6.0 | %2 | \$300,605 | 4% | 720,856 | 20% | 0.0 | \$1.11 | 0.4 |
| 2014 | >120% | 9 | 76% | 0.7 | 18% | \$7,873,108 | %98 | 1,125,910 | 31% | 0.0 | \$6.99 | 9.0 |
| 2014 | Total | 23 | 100% | 3.6 | 100% | \$21,785,167 | 100% | 3,592,053 | 100% | 0.0 | \$6.06 | 1.0 |
| 2015 | %09> | 16 | 33% | 1.7 | 23% | \$7,094,387 | 21% | 662,619 | 18% | 0.0 | \$10.71 | 2.6 |
| 2015 | %08-%09 | 5 | 10% | 0.8 | 10% | \$3,408,609 | 10% | 489,826 | 14% | 0.0 | \$6.96 | 1.6 |
| 2015 | 80%-100% | 5 | 10% | 0.5 | 7% | \$3,724,052 | 11% | 650,163 | 18% | 0.0 | \$5.73 | 0.8 |
| 2015 | 100%-120% | 10 | 20% | 1.2 | 16% | \$4,855,095 | 14% | 631,741 | 18% | 0.0 | \$7.69 | 1.9 |
| | | | | | | | | | | | | |

| 2015 >120% 2015 Total 2016 <60% 2016 60%-80% 2016 80%-100% 2016 100%-120% 2016 >120% 2017 <60% 2017 <60%-80% 2017 <60%-80% 2017 <80%-100% 2017 <100%-120% 2017 >120% 2017 >120% 2017 >120% 2017 >120% 2017 >100%-120% 2017 >100%-120% 2017 >100%-120% 2017 Potal | | 3 | | (MM) | Distribution | Investment | Investment Distribution | Population | Population Distribution | 1,000 People | Investment/ Population | Population |
|--|------|----|------|------|--------------|--------------|----------------------------|------------|----------------------------|--------------|---------------------------|------------|
| | | 13 | 27% | 3.1 | 43% | \$14,634,422 | 43% | 1,150,974 | 32% | 0.0 | \$12.71 | 2.7 |
| | | 49 | 100% | 7.3 | 100% | \$33,716,566 | 100% | 3,593,222 | 100% | 0.0 | \$9.38 | 2.0 |
| | | 0 | 18% | 7.0 | 12% | \$3,685,924 | 10% | 649,617 | 18% | 0.0 | \$5.67 | 1. |
| | 3% | 9 | 12% | 8.0 | 13% | \$2,828,263 | 8% | 509,088 | 14% | 0.0 | \$5.56 | 1.5 |
| | | 10 | 20% | 1.5 | 25% | \$14,605,432 | 41% | 641,084 | 18% | 0.0 | \$22.78 | 2.4 |
| | | 10 | 20% | 1.9 | 32% | \$8,082,742 | 23% | 653,309 | 18% | 0.0 | \$12.37 | 2.9 |
| | | 15 | 30% | 1. | 18% | \$6,312,610 | 18% | 1,126,543 | 31% | 0.0 | \$5.60 | 1.0 |
| | | 20 | 100% | 6.1 | 100% | \$35,514,972 | 100% | 3,588,570 | 100% | 0.0 | \$9.90 | 1.7 |
| | | 8 | 21% | 1.7 | 42% | \$5,506,176 | 36% | 663,181 | 18% | 0.0 | \$8.30 | 2.5 |
| | 3% | 4 | 11% | 0.4 | 10% | \$1,295,929 | 8% | 488,396 | 14% | 0.0 | \$2.65 | 8:0 |
| | %00 | 7 | 18% | 0.4 | %6 | \$1,487,162 | 10% | 612,043 | 17% | 0.0 | \$2.43 | 9.0 |
| | | 12 | 32% | 8.0 | 21% | \$3,998,495 | 26% | 722,803 | 20% | 0.0 | \$5.53 | 1. |
| | | 7 | 18% | 0.7 | 17% | \$3,199,542 | 21% | 1,099,277 | 31% | 0.0 | \$2.91 | 9:0 |
| | | 38 | 100% | 3.9 | 100% | \$15,487,305 | 100% | 3,594,478 | 100% | 0.0 | \$4.31 | 1. |
| 2018 <60% | | 7 | 11% | 6.0 | 15% | \$3,702,498 | 16% | 636,795 | 18% | 0.0 | \$5.81 | 1.5 |
| 2018 60%-80% | %0 | 13 | 21% | 1.5 | 24% | \$4,850,211 | 21% | 553,007 | 15% | 0.0 | \$8.77 | 2.7 |
| 2018 80%-100% | %00 | 7 | 11% | 0.4 | %9 | \$3,130,891 | 13% | 569,113 | 16% | 0.0 | \$5.50 | 0.7 |
| 2018 100%-120% | | 10 | 16% | 1.2 | 20% | \$4,063,576 | 17% | 710,802 | 20% | 0.0 | \$5.72 | 1.7 |
| 2018 >120% | | 24 | 39% | 2.1 | 34% | \$7,574,924 | 32% | 1,103,484 | 31% | 0.0 | \$6.86 | 1.9 |
| 2018 Total | | 61 | 100% | 6.2 | 100% | \$23,322,100 | 100% | 3,581,504 | 100% | 0.0 | \$6.51 | 1.7 |
| 2019 <60% | | 13 | 35% | 1.4 | 28% | \$5,765,546 | 28% | 636,795 | 18% | 0.0 | \$9.05 | 2.2 |
| 2019 60%-80% | %0 | 7 | 19% | 6.0 | 11% | \$4,237,854 | 20% | 553,007 | 15% | 0.0 | \$7.66 | 1.0 |
| 2019 80%-100% | %OC | 7 | 19% | 1(1) | 22% | \$3,374,551 | 16% | 569,113 | 16% | 0.0 | \$5.93 | 1.9 |
| 2019 100%-120% | 120% | 7 | 19% | 1.6 | 32% | \$6,188,145 | 30% | 710,802 | 20% | 0.0 | \$8.71 | 2.3 |
| 2019 >120% | | 8 | 8% | 0.4 | 8% | \$1,182,152 | %9 | 1,103,484 | 31% | 0.0 | \$1.07 | 0.3 |
| 2019 Total | | 37 | 100% | 5.0 | 100% | \$20,748,248 | 100% | 3,581,504 | 100% | 0.0 | \$5.79 | 1.4 |
| 2020 <60% | • | 12 | 27% | 9.0 | 11% | \$9,039,149 | 33% | 636,795 | 18% | 0.0 | \$14.19 | 1.0 |
| 2020 60%-80% | %0 | ∞ | 18% | 1.4 | 24% | \$6,581,407 | 24% | 553,007 | 15% | 0.0 | \$11.90 | 2.6 |
| 2020 80%-100% | %00 | 9 | 14% | 6.0 | 15% | \$2,318,096 | %6 | 569,113 | 16% | 0.0 | \$4.07 | 1.6 |
| 2020 100%-120% | 120% | 4 | %6 | 1.3 | 22% | \$2,815,444 | 10% | 710,802 | 20% | 0.0 | \$3.96 | 1.9 |
| 2020 >120% | | 4 | 32% | 1.7 | 28% | \$6,426,545 | 24% | 1,103,484 | 31% | 0.0 | \$5.82 | 1.5 |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment/ Population | Watts / Population |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------|
| 2020 | Total | 44 | 100% | 0.9 | 100% | \$27,180,640 | 100% | 3,581,504 | 100% | 0.0 | \$7.59 | 1.7 |
| Total | %09> | 73 | 24% | 7.5 | 20% | \$41,376,936 | 23% | 636,795 | 18% | 0.1 | \$64.98 | 11.8 |
| Total | %08-%09 | 44 | 14% | 5.5 | 14% | \$23,445,569 | 13% | 200,833 | 15% | 0.1 | \$42.40 | 6.6 |
| Total | 80%-100% | 49 | 16% | 1.7 | 19% | \$35,787,216 | 20% | 569,113 | 16% | 1.0 | \$62.88 | 12.4 |
| Total | 100%-120% | 23 | 19% | 8.3 | 22% | \$31,454,117 | 18% | 710,802 | 20% | 0.1 | \$44.25 | 11.7 |
| Total | >120% | 82 | 27% | 8'6 | 798 | \$47,203,304 | 76% | 1,103,484 | 31% | 1.0 | \$42.78 | 8.8 |
| Total | Total | 305 | 100% | 38.2 | 100% | \$179,267,142 | 100% | 3,581,504 | 100% | 1.0 | \$50.05 | 10.7 |
| | | | | | | | | | | | | |

TABLE 59. C-PACE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED⁹⁷

| | | #Pr | # Project Units | | | | MW | | | Total Investment | ment | |
|--------|-------|------|-----------------|---------|-------|------|---------|---------|---------------|------------------|---------------|-------|
| | | | | | | | | | | 201 | | % at |
| | | Over | 100% or | % at | | Over | 100% or | % at | | | | 100% |
| Fiscal | | 100% | Below | 100% or | | 100% | Below | 100% or | | Over 100% | 100% or | ٥ |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2012 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2013 | 3 | _ | 2 | %29 | 0.1 | 0.0 | 0.1 | 100% | \$1,512,144 | \$650,016 | \$862,128 | 21% |
| 2014 | 23 | 6 | 14 | 61% | 3.6 | 6.0 | 2.7 | 75% | \$21,785,167 | \$8,673,712 | \$13,111,454 | %09 |
| 2015 | 49 | 23 | 26 | 23% | 7.3 | 4.3 | 3.0 | 41% | \$33,716,566 | \$19,489,517 | \$14,227,049 | 45% |
| 2016 | 20 | 52 | 25 | 20% | 6.1 | 3.0 | 3.0 | 20% | \$35,514,972 | \$14,395,352 | \$21,119,620 | 26% |
| 2017 | 38 | 19 | 19 | 20% | 3.9 | 1.5 | 2.4 | 62% | \$15,487,305 | \$7,198,037 | \$8,289,267 | 54% |
| 2018 | 61 | 34 | 27 | 44% | 6.2 | 3.4 | 2.8 | 46% | \$23,322,100 | \$11,638,500 | \$11,683,600 | 20% |
| 2019 | 37 | 10 | 27 | 73% | 5.0 | 2.0 | 3.0 | %09 | \$20,748,248 | \$7,370,297 | \$13,377,951 | 64% |
| 2020 | 44 | 18 | 26 | 26% | 0.9 | 3.0 | 3.0 | 20% | \$27,180,640 | \$9,241,989 | \$17,938,652 | %99 |
| Total | 305 | 139 | 166 | 54% | 38.2 | 18.1 | 20.1 | 53% | \$179,267,142 | \$78,657,421 | \$100,609,721 | %95 |
| | | | | | | | | | | | | |

Distressed Community Penetration

For a breakdown of C-PACE project volume and investment by census tracts categorized by Distressed Communities – see Table 60. It should be noted that C-PACE is not an income targeted program.

TABLE 60, C-PACE ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| 2020 Yes 18 40% 2.4 2020 No 27 60% 3.7 2020 Total 45 100% 6.1 Total Yes 101 32% 14.3 Total No 214 68% 25.6 | Capacity Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|--|-----------------------|------------------|---------------------------------|---------------------|---------------------------------|------------------------------------|-------------------------------------|-----------------------|
| No 27 60% Total 45 100% Yes 101 32% No 214 68% | 2.4 40% | \$6,871,727 | 25% | 1,102,584 | 31% | 0.0 | \$6.23 | 2.2 |
| Total 45 100% Yes 101 32% No 214 68% | 3.7 60% | \$20,646,366 | %SL | 2,478,920 | %69 | 0.0 | \$8.33 | 1.5 |
| Yes 101 32% No 214 68% | 6.1 100% | \$27,518,093 | 100% | 3,581,504 | 100% | 0.0 | \$7.68 | 1.7 |
| No 214 68% | 14.3 36% | \$69,488,757 | %8€ | 1,102,584 | 31% | 0.1 | \$63.02 | 13.0 |
| | 25.6 64% | \$115,473,445 | 62% | 2,478,920 | %69 | 0.1 | \$46.58 | 10.3 |
| Total Total 315 100% 39.9 | 39.9 100% | \$184,962,202 | 100% | 3,581,504 | 100% | 0.1 | \$51.64 | 11.2 |

Societal Impacts

Ratepayers in Connecticut continue to enjoy the societal benefits of C-PACE. In its 8 years of existence, the program has supported the creation of 1,886 job years, avoided the lifetime emission of 818,633 tons of carbon dioxide, 833,577 pounds of nitrous oxide, 748,665 pounds of sulfur oxide, and 61,174 pounds of particulate matter as illustrated by Table 61 and



Table 63. CPACE is estimated to have generated \$12.5 million in tax revenue for the state of CT since its inception as shown in Table 62. The lifetime economic value of the public health impacts of CPACE are estimated between \$23.8 and \$53.9 million as illustrated in Table 64.

TABLE 61. C-PACE JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 0 | 0 | 0 |
| 2013 | 9 | 15 | 24 |
| 2014 | 109 | 174 | 282 |
| 2015 | 142 | 227 | 369 |
| 2016 | 178 | 285 | 463 |
| 2017 | 55 | 74 | 129 |
| 2018 | 89 | 116 | 204 |
| 2019 | 73 | 95 | 168 |
| 2020 | 104 | 141 | 245 |
| Total | 759 | 1, 126 | 1,886 |

TABLE 62. C-PACE TAX REVENUES GENERATED BY FY CLOSED

| 2010 | 00 | 110 20 | <i>-</i> | |
|------------|--------------------|----------------|----------------------|----------------------|
| 2019 | 73 | 95 16 | 68 | |
| 2020 | 104 | | 45 | |
| Total | 759 | 1,126 1,8 | 886 | |
| | | | | |
| TABLE 62 C | C-PACE TAX RE | VENITIES GENER | ATED BY EV CI | OSED |
| ADLL OZ. | STACE TAX ILE | VEHOES GENER | AILD BITT CL | OSED |
| | Individual | Corporate | C-I T | T.A.I T. |
| Fiscal | Income Tax Revenue | Tax Revenue | Sales Tax Revenue | Total Tax Revenue |
| Year | Generated | Generated | Generated | Generated |
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$42,924 | \$45,544 | \$46,694 | \$135,162 |
| 2014 | \$489,858 | \$773,000 | \$366,235 | \$1,629,093 |
| 2015 | \$711,515 | \$1,074,192 | \$727,217 | \$2,512,924 |
| 2016 | \$853,042 | \$1,092,624 | \$682,252 | \$2,627,917 |
| 2017 | \$257,202 | \$407,685 | \$99,582 | \$764,470 |
| 2018 | \$440,130 | \$916,522 | \$162,881 | \$1,519,534 |
| 2019 | \$337,344 | \$660,385 | \$329,403 | \$1,327,132 |
| 2020 | \$531,240 | \$928,041 | \$506,388 | \$1,965,669 |
| Total | \$3,663,256 | \$5,897,993 | \$2,920,653 | \$12,481,902 |
| | | + | + | |

TABLE 63. C-PACE AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emissions Avoided (tons) | | | nissions (pounds) | SOx Emissions Avoided (pounds) PM 2.5 | | | pounds) |
|----------------|------------------------------|----------|--------|----------------------|---------------------------------------|----------|--------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 283 | 4,224 | 386 | 5,811 | 477 | 7,148 | 24 | 360 |
| 2014 | 4,700 | 86,427 | 6,077 | 113,223 | 6,872 | 128,033 | 400 | 7,497 |
| 2015 | 7,345 | 161,794 | 7,841 | 171,075 | 7,480 | 161,286 | 454 | 9,613 |
| 2016 | 8,626 | 156,267 | 9, 181 | 163,676 | 8,099 | 136,665 | 716 | 13,207 |
| 2017 | 3,345 | 71,784 | 3,000 | 64,793 | 2,203 | 46,446 | 282 | 6,108 |
| 2018 | 5,858 | 129,664 | 5,398 | 121,162 | 4,446 | 100,178 | 491 | 10,956 |
| 2019 | 3,331 | 75,542 | 3,160 | 72,309 | 2,729 | 62,363 | 280 | 6,391 |
| 2020 | 5,329 | 132,929 | 4,871 | 121,528 | 4,271 | 106,545 | 283 | 7,042 |
| Total | 38,818 | 818,633 | 39,914 | 833,577 | 36,577 | 748,665 | 2,930 | 61,174 |

TABLE 64. C-PACE ECONOMIC VALUE OF PUBLIC HEALTH BY FY CLOSED

| ABLE 64. C | -PACE ECONOM | IC VALUE OF PUBL | IC HEALTH BY FY CLO | OSED |
|------------|--------------|------------------|---------------------|--------------|
| Fiscal | Anı | nual | Life | time |
| Year | Low | High | Low | High |
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$8,806 | \$19,901 | \$134,682 | \$304,304 |
| 2014 | \$150,753 | \$340,563 | \$2,851,883 | \$6,441,221 |
| 2015 | \$173,305 | \$391,416 | \$3,699,744 | \$8,354,710 |
| 2016 | \$273,734 | \$618,401 | \$5,113,659 | \$11,549,860 |
| 2017 | \$114,289 | \$258,114 | \$2,496,292 | \$5,636,915 |
| 2018 | \$200,612 | \$453,042 | \$4,499,574 | \$10,160,200 |
| 2019 | \$114,145 | \$257,761 | \$2,618,068 | \$5,911,521 |
| 2020 | \$98,561 | \$222,526 | \$2,454,910 | \$5,542,553 |
| Total | \$1,134,206 | \$2,561,725 | \$23,868,812 | \$53,901,283 |

Financing Program

Commercial Property Assessed Clean Energy (C-PACE) is a structure through which commercial property owners can finance clean energy improvements through a voluntary benefit assessment on their property, repaid through their municipality along with real property taxes. A lien, or voluntary benefit assessment, is placed on the improved property as security for the financing, and the Connecticut Green Bank requires lender consent from existing mortgage holders prior to approving a C-PACE project. To date, 46 unique banks and 36 specialized lending institutions have provided lender consent for over 230 projects - demonstrating that existing mortgage holders see that C-PACE adds adding value to properties and increases net income to the business occupying the building as a result of lower energy prices.

The Connecticut Green Bank administers the C-PACE program as an "open" platform. Private lenders work directly with building owners to finance projects. The lenders and owners then work with the Connecticut Green to approve the project and place the benefit assessment on the property. In addition, the Connecticut Green Bank maintains a warehouse of capital from which it finances C-PACE transactions. Through the warehouse, funds are advanced to either the customer or the contractor during construction based on the project meeting certain deliverables. Once the project is completed, the construction advances convert to long term financing whereby the property owner pays a benefit assessment over time to the municipality at the same time real property taxes are paid on the property. As the benefit assessment payments are made by the property owners, they are then remitted from the associated municipalities to the Connecticut Green Bank, or its designated servicer, to repay the capital providers for the energy improvements financed through C-PACE.

Financial Performance

To date there have been no defaults and as of June 30, 2020, there are six (6) delinquencies.

Marketing

To accelerate the adoption of C-PACE to finance clean energy and energy efficiency projects, the Connecticut Green Bank has implemented marketing efforts that target specific industry verticals. The Green Bank used a group purchase model, in which it aggregated several C-PACE projects at auto retailers and offered interest rate reductions on the portfolio of projects. Connecticut Green Bank also worked with the State of Connecticut's Department of Economic and Community Development (DECD) to target manufacturing facilities through its Manufacturing Innovation Fund (MIF). Promoted via its multi touch "Energy on the Line" marketing campaign, the Green Bank was able to access \$800,000 through MIF to provide manufacturers an incentive in the form of a grant equal to a 1% interest rate reduction, applied to the total project amount of a closed C-PACE project.

Connecticut Green Bank has also established relationships with contractors and provided them with materials and resources to support their use of C-PACE. Green Bank provides co-brandable materials and other physical sales tools, serving as both a means of originating projects for the Green Bank and a way of creating more skilled and active C-PACE contractors.

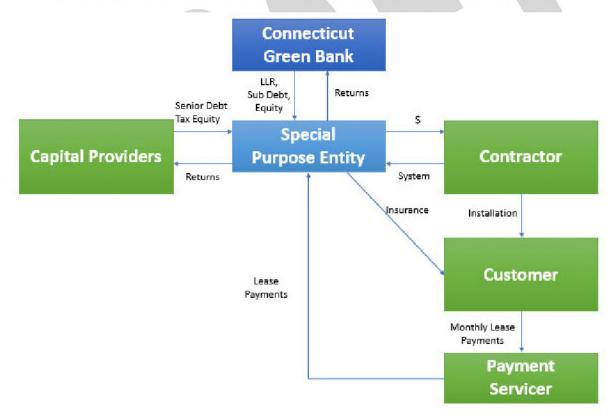
Case 2 - CT Green Bank PPA and CT Solar Lease

Description

The Green Bank has used third-party ownership structures to deploy distributed solar generation in Connecticut in both the Residential and Commercial sectors. These funds are a unique combination of a tax equity investor and a syndicate of debt providers and the Green Bank to support solar PV installations (i.e., rooftop residential lease financing for solar PV and commercial leases and PPAs for rooftop, carport, and ground mount solar PV).

Residential leases were one of the first products to graduate from Green Bank funding, but the organization still actively pursues new projects in the Commercial, Industrial, and Institutional sector for its funds and performs asset management functions for the entire portfolio including the now closed Residential portion of the program.

FIGURE 6. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR THE CT GREEN BANK PPA AND CT SOLAR LEASE 98



The CT Solar Lease 2 fund was the second "solar PV fund" established using a combination of ratepayer funds and private capital. In developing this fund, which was fully utilized in 2017, the Green Bank sought to innovate both in the types of credits that would be underwritten and via broadening the sources of capital in the fund. Before these innovations by the Green Bank, a fund had not been established that would underwrite residential solar PV installations as well as installations on a

⁹⁸ It should be noted that the Special Purpose Entity structure includes several entities – CT Solar Lease II, LLC and CEFIA Holdings, LLC that provide different functions.

6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

"commercial scale" such as for municipal and school buildings, community oriented not-for-profit structures (all of which can't take advantage of Federal tax incentives due to their tax-exempt status) as well as a vast array of for profit enterprises. These commercial-scale projects were historically the most difficult to finance: too small to attract investment funds, and similarly if aggregated to a size worthy of investment, comprised of off-takers that for the most part are non-investment grade or "unrated" credits that are difficult to underwrite in a manner that would permit deploying solar PV at scale. By prudently assessing these risks and operational issues, the Green Bank was able to obtain the support of the tax equity investor and lenders from Main Street - not Wall Street - in the fund. CT Solar Lease 2 was the first fund to secure solar leases and power purchase agreements using a PACE lien – an innovation that has prompted California to introduce legislation to enable the same security arrangement for its businesses and not for profit organizations. The Green Bank's leadership and innovation was recognized by the Clean Energy States Alliance "State Leadership in Clean Energy" award in 2016, and the Green Bank has continued its work on this front – solely with respect to commercial-scale projects – via a CT Solar Lease 3 fund, as well as through a sourcing arrangement to deliver a number of these projects to Onyx Renewables (a Blackstone portfolio company) so as to accelerate market adoption of financing strategies for this sector.

Key Performance Indicators

The Key Performance Indicators for PPA and Solar Lease closed activity are reflected in Table 65 through Table 71 for Residential and Commercial projects, respectively. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced.

TABLE 65. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE PROJECT TYPES AND INVESTMENT BY FY CLOSED

| | | | | # | Total | Green Bank | Private | Leverage |
|-------------|----|-----|-------|-----------------|---------------|--------------------------|--------------|----------|
| Fiscal Year | EE | RE | RE/EE | Projects | Investment | Investment ⁹⁹ | Investment | Ratio |
| 2012 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2015 | 0 | 16 | 0 | 16 | \$11,547,562 | \$3,002,366 | \$8,545,196 | 3.8 |
| 2016 | 0 | 27 | 0 | 27 | \$16,711,392 | \$4,344,962 | \$12,366,430 | 3.8 |
| 2017 | 0 | 28 | 2 | 30 | \$34,878,766 | \$6,642,297 | \$28,236,469 | 5.3 |
| 2018 | 0 | 28 | 1 | 29 | \$24,992,210 | \$5,323,803 | \$19,668,407 | 4.7 |
| 2019 | 0 | 19 | 0 | 19 | \$11,704,370 | \$6,351,963 | \$5,352,407 | 1.8 |
| 2020 | 0 | 6 | 0 | 6 | \$2,719,145 | \$329,908 | \$2,389,238 | 8.2 |
| Total | 0 | 124 | 3 | 127 | \$102,553,445 | \$25,995,298 | \$76,558,147 | 3.9 |

TABLE 66. RESIDENTIAL SOLAR LEASE PROJECT INVESTMENT BY FY CLOSED

| | | | | # | Total | Green Bank | Private | Leverage |
|-------------|-------------------|----|-------|----------|---------------------------|---------------------------|------------|----------|
| Fiscal Year | EE ¹⁰⁰ | RE | RE/EE | Projects | Investment ¹⁰¹ | Investment ¹⁰² | Investment | Ratio |
| 2012 | - | - | - | - | - | - | - | - |

⁹⁹ Includes incentives, interest rate buydowns and loan loss reserves.

¹⁰⁰ All projects that receive an RSIP incentive are required to do an energy audit/assessment.

¹⁰¹ Includes closing costs and capitalized interest for C-PACE and the Fair Market Value for Commercial/Residential Leases.

¹⁰² Includes incentives, interest rate buydowns and loan loss reserves.

6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

| | | | | # | Total | Green Bank | Private | Leverage |
|-------------|-------------------|-------|-------|----------|---------------------------|---------------------------|--------------|----------|
| Fiscal Year | EE ¹⁰⁰ | RE | RE/EE | Projects | Investment ¹⁰¹ | Investment ¹⁰² | Investment | Ratio |
| 2013 | - | - | - | - | - | - | - | - |
| 2014 | - | 107 | - | 107 | \$4,324,454 | \$888,178 | \$3,436,276 | 4.9 |
| 2015 | - | 610 | - | 610 | \$23,672,592 | \$4,861,995 | \$18,810,598 | 4.9 |
| 2016 | - | 472 | - | 472 | \$18,325,440 | \$3,763,770 | \$14,561,670 | 4.9 |
| 2017 | - | - | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - | - | |
| 2020 | - | - | - | - | - | - | - | - |
| Total | - | 1,189 | - | 1,189 | \$46,322,487 | \$9,513,943 | \$36,808,544 | 4.9 |

TABLE 67. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE PROJECT CAPACITY, GENERATION AND SAVINGS¹⁰³ BY FY CLOSED

| | Installed | | Expected Lifetime | Annual Saved / | Lifetime Saved / |
|--------|-----------|------------------|-------------------|----------------|------------------|
| Fiscal | Capacity | Expected Annual | Savings or | Produced | Produced |
| Year | (kW) | Generation (kWh) | Generation (MWh) | (MMBtu) | (MMBtu) |
| 2012 | 0.0 | 0 | 0 | 0 | 0 |
| 2013 | 0.0 | 0 | 0 | 0 | 0 |
| 2014 | 0.0 | 0 | 0 | 0 | 0 |
| 2015 | 3,482.3 | 3,965,655 | 99,141 | 12,791 | 319,779 |
| 2016 | 5,463.0 | 6,221,207 | 155,530 | 20,888 | 522,201 |
| 2017 | 11,629.5 | 13,243,652 | 331,091 | 45,063 | 1,126,574 |
| 2018 | 8,059.8 | 9,178,523 | 229,463 | 26,850 | 671,258 |
| 2019 | 3,610.8 | 3,928,427 | 98,211 | 9,432 | 235,800 |
| 2020 | 836.7 | 952,788 | 23,820 | 1,620 | 40,511 |
| Total | 33,082.0 | 37,490,253 | 937,256 | 116,645 | 2,916,124 |

TABLE 68. RESIDENTIAL SOLAR LEASE PROJECT CAPACITY, GENERATION AND SAVINGS¹⁰⁴ BY FY CLOSED

| | Installed | | Expected Lifetime | Annual Saved / | Lifetime Saved / |
|--------|-----------|------------------|-------------------|----------------|------------------|
| Fiscal | Capacity | Expected Annual | Savings or | Produced | Produced |
| Year | (kW) | Generation (kWh) | Generation (MWh) | (MMBtu) | (MMBtu) |
| 2012 | - | | - | - | - |
| 2013 | - | - | - | - | - |
| 2014 | 817.1 | 930,503 | 23,263 | 3,175 | 79,372 |
| 2015 | 4,894.7 | 5,574,098 | 139,352 | 19,019 | 475,471 |
| 2016 | 3,841.9 | 4,375,207 | 109,380 | 14,928 | 373,205 |
| 2017 | - | - | - | - | - |
| 2018 | - | - | - | - | - |
| 2019 | - | - | - | - | - |
| 2020 | - | - | - | - | - |
| Total | 9,553.7 | 10,879,808 | 271,995 | 37,122 | 928,048 |

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¹⁰³ The Green Bank currently estimates annual savings and is in the process or reviewing and updating this methodology to include actual savings where possible.

¹⁰⁴ The Green Bank currently estimates annual savings and is in the process or reviewing and updating this methodology to include actual savings where possible.

6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

TABLE 69. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE PROJECT AVERAGES BY FY CLOSED

| Fiscal | Average Total | Average Amount | Average Installed | Average Annual Saved / Produced | Average Finance Term | Average PPA |
|--------|------------------|-------------------|----------------------|------------------------------------|-------------------------|-------------|
| Year | Investment | Financed | Capacity (kW) | (MMBtu) | (years) | Lease Price |
| 2012 | \$0 | \$0 | 0.0 | 0 | 0 | \$0.00 |
| 2013 | \$0 | \$0 | 0.0 | 0 | 0 | \$0.00 |
| 2014 | \$0 | \$0 | 0.0 | 0 | 0 | \$0.00 |
| 2015 | \$721,723 | \$187,648 | 217.6 | 799 | 21 | \$0.10 |
| 2016 | \$618,940 | \$160,925 | 202.3 | 774 | 20 | \$0.10 |
| 2017 | \$1,162,626 | \$221,410 | 387.6 | 1,502 | 20 | \$0.09 |
| 2018 | \$861,800 | \$183,579 | 277.9 | 926 | 20 | \$0.08 |
| 2019 | \$616,019 | \$334,314 | 190.0 | 496 | 20 | \$0.08 |
| 2020 | \$453,191 | \$54,985 | 139.4 | 270 | 20 | \$0.09 |
| Total | \$807,507 | \$204,687 | 260.5 | 918 | 20 | \$0.09 |

TABLE 70. RESIDENTIAL SOLAR LEASE PROJECT AVERAGES BY FY CLOSED

| | | Average | Average | Average Annual | Average | | Average |
|--------|---------------|----------|---------------|------------------|--------------|------------|---------|
| Fiscal | Average Total | Amount | Installed | Saved / Produced | Finance Term | Average | FICO |
| Year | Investment | Financed | Capacity (kW) | (MMBtu) | (months) | DTI | Score |
| 2012 | - | - | - | - | -,@ | D - | - |
| 2013 | - | - | - | - | | - | - |
| 2014 | \$40,415 | \$38,182 | 7.6 | 30 | 240 | 30 | 785 |
| 2015 | \$38,808 | \$36,663 | 8.0 | 31 | 240 | 31 | 777 |
| 2016 | \$38,825 | \$36,679 | 8.1 | 32 | 240 | 35 | 776 |
| 2017 | - | - | - | 4-11/-37 | - | - | - |
| 2018 | - | - | - | | - | - | - |
| 2019 | - | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - | - |
| Total | \$38,959 | \$36,806 | 8.0 | 31 | 240 | 33 | 777 |

TABLE 71. RESIDENTIAL SOLAR LEASE PROJECT APPLICATION YIELD 105 BY FY RECEIVED

| | Applications | Applications | Applications | Applications | Approved | Denied |
|-------------|--------------|--------------|--------------|--------------|----------|--------|
| Fiscal Year | Received | Approved | Withdrawn | Denied | Rate | Rate |
| 2012 | 0 -V | - | - | - | - | - |
| 2013 | - | - | - | - | - | - |
| 2014 | 669 | 196 | 256 | 217 | 68% | 32% |
| 2015 | 1,813 | 847 | 619 | 347 | 81% | 19% |
| 2016 | 351 | 146 | 154 | 51 | 85% | 15% |
| 2017 | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - |

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¹⁰⁵ Applications received are applications submitted to Renew Financial (servicer of the CT Solar Lease) for credit approval. Applications approved are applications that have met the credit requirements for the program and can move to lease signing, pending formal technical approval of the solar equipment by the Residential Solar Investment Program. Applications withdrawn are applications that have been cancelled by the submitter due to the project not moving forward. Applications denied are applications that are not approved because the customer does not meet underwriting requirements.

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6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

| Fiscal Year | Applications | Applications | Applications | Applications | Approved | Denied |
|-------------|--------------|--------------|--------------|--------------|----------|--------|
| | Received | Approved | Withdrawn | Denied | Rate | Rate |
| Total | 2,833 | 1,189 | 1,029 | 615 | 78% | 22% |

The types of Commercial end-use customers participating in the PPA and Solar Lease program are shown in Table 72.

TABLE 72. TYPES OF END-USE CUSTOMERS PARTICIPATING IN CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE

| Property Type | # of Properties |
|--|-----------------|
| Agricultural | 3 |
| Athletic/Recreational Facility | 5 |
| Education | 19 |
| House of Worship | 9 |
| Industrial | 2 |
| Multi-family/apartment (> 5 units) | 15 |
| Municipal building | 35 |
| Non-profit | 10 |
| Nursing Home/Rehab Facility | 1 |
| Office | 24 |
| Public assembly | 2 |
| Retail | 1 |
| Warehouse & storage | 1 |
| Grand Total | 127 |
| Industrial Multi-family/apartment (> 5 units) Municipal building Non-profit Nursing Home/Rehab Facility Office Public assembly Retail Warehouse & storage Grand Total | |
| | |
| | ~10 |
| | 661 |
| | 112 |
| | |
| 160 |) - |
| | |
| | |
| <0/ | |
| 40 | |
| | |
| | |
| | |

Area Median Income Band Penetration

The CT Solar Lease program has been used to fund projects in economically diverse locations across the state as reflected by Table 73 and Table 74 for Metropolitan Statistical Area (MSA) Area Median Income (AMI). It should be noted that these Solar Lease funds are not part of an income targeted program.

TABLE 73. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS BY FY CLOSED 106

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment/ Population | Watts / Population |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|------------------------------|---------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------|
| 2012 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 609,363 | 17% | 0.0 | \$0.00 | 0.0 |
| 2012 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 527,217 | 15% | 0.0 | \$0.00 | 0:0 |
| 2012 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 589,440 | 17% | 0.0 | \$0.00 | 0.0 |
| 2012 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 722,664 | 20% | 0.0 | \$0.00 | 0.0 |
| 2012 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,116,395 | 31% | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %.0 | 0\$ | %0 | 3,572,213 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 604,433 | 17% | 0.0 | \$0.00 | 0.0 |
| 2013 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 568,952 | 16% | 0.0 | \$0.00 | 0.0 |
| 2013 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 588,813 | 16% | 0.0 | \$0.00 | 0.0 |
| 2013 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 690,591 | 19% | 0.0 | \$0.00 | 0.0 |
| 2013 | >120% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 1,131,305 | 31% | 0.0 | \$0.00 | 0.0 |
| 2013 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 3,592,053 | 100% | 0.0 | \$0.00 | 0.0 |
| 2014 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 614,135 | 17% | 0.0 | \$0.00 | 0.0 |
| 2014 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 546,132 | 15% | 0.0 | \$0.00 | 0.0 |
| 2014 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 577,061 | 16% | 0.0 | \$0.00 | 0.0 |
| 2014 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 720,856 | 20% | 0.0 | \$0.00 | 0.0 |
| 2014 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,125,910 | 31% | 0.0 | \$0.00 | 0.0 |
| 2014 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 3,592,053 | 100% | 0.0 | \$0.00 | 0.0 |
| 2015 | %09> | - | %9 | 0.0 | 1% | \$119,000 | 1% | 662,619 | 18% | 0.0 | \$0.18 | 0.0 |
| 2015 | %08-%09 | - | %9 | 0.1 | 2% | \$300,000 | 3% | 489,826 | 14% | 0.0 | \$0.61 | 0.2 |
| 2015 | 80%-100% | က | 19% | 7.0 | 22% | \$2,201,000 | 19% | 650,163 | 18% | 0.0 | \$3.39 | 1.2 |
| | | | | | | | | | | | | |

¹⁰⁵ Exdudes projects in unknown bands.

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6. PROGRAMS – CT GREEN BANK PPA AND CT SOLAR LEASE

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|------------------------------|---------------------|---------------------------------|---------------------------------|-------------------------------------|-----------------------|
| 2015 | 100%-120% | 3 | 19% | 0.4 | 11% | \$1,238,000 | 11% | 631,741 | 18% | 0.0 | \$1.96 | 9.0 |
| 2015 | >120% | 8 | 20% | 2.3 | 65% | \$7,689,562 | 67% | 1,150,974 | 32% | 0.0 | \$6.68 | 2.0 |
| 2015 | Total | 16 | 100% | 3.5 | 100% | \$11,547,562 | 100% | 3,593,222 | 100% | 0.0 | \$3.21 | 1.0 |
| 2016 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 649,617 | 18% | 0.0 | \$0.00 | 0.0 |
| 2016 | %08-%09 | - | 4% | 0.1 | 3% | \$486,864 | 3% | 509,088 | 14% | 0.0 | \$0.96 | 0.3 |
| 2016 | 80%-100% | 9 | 22% | 1.4 | 25% | \$3,866,034 | 23% | 641,084 | 18% | 0.0 | \$6.03 | 2.1 |
| 2016 | 100%-120% | 10 | 37% | 2.1 | 38% | \$6,365,606 | 38% | 653,309 | 18% | 0.0 | \$9.74 | 3.2 |
| 2016 | >120% | 10 | 37% | 1.9 | 34% | \$5,992,888 | 36% | 1,126,543 | 31% | 0.0 | \$5.32 | 1.7 |
| 2016 | Total | 27 | 100% | 5.5 | 100% | \$16,711,392 | 100% | 3,588,570 | 100% | 0:0 | \$4.66 | 1.5 |
| 2017 | %09 > | 4 | 13% | 1.4 | 12% | \$3,564,532 | 10% | 663,181 | 18% | 0.0 | \$5.37 | 2.2 |
| 2017 | %08-%09 | 5 | 17% | 2.3 | 20% | \$6,698,454 | 19% | 488,396 | 14% | 0.0 | \$13.72 | 4.8 |
| 2017 | 80%-100% | 4 | 13% | 1.3 | 11% | \$3,672,782 | 11% | 612,043 | %21 | 0.0 | \$6.00 | 2.1 |
| 2017 | 100%-120% | 6 | 30% | 3.7 | 31% | \$11,017,545 | 32% | 722,803 | 20% | 0.0 | \$15.24 | 5.1 |
| 2017 | >120% | 8 | 27% | 2.9 | 25% | \$9,925,453 | 28% | 1,099,277 | 31% | 0.0 | \$9.03 | 2.7 |
| 2017 | Total | 30 | 100% | 11.6 | 100% | \$34,878,766 | 100% | 3,594,478 | 100% | 0.0 | \$9.70 | 3.2 |
| 2018 | %09> | 4 | 14% | 1.4 | 17% | \$4,421,750 | 18% | 636,795 | 18% | 0.0 | \$6.94 | 2.1 |
| 2018 | %08-%09 | 4 | 14% | 2.0 | %6 | \$2,154,215 | %6 | 553,007 | 15% | 0.0 | \$3.90 | 1.3 |
| 2018 | 80%-100% | 3 | 10% | 1.9 | 24% | \$6,180,720 | 25% | 569,113 | 16% | 0.0 | \$10.86 | 3.3 |
| 2018 | 100%-120% | 4 | 14% | 9.0 | %2 | \$1,668,000 | %2 | 710,802 | %07 | 0.0 | \$2.35 | 0.8 |
| 2018 | >120% | 14 | 48% | 3.5 | 43% | \$10,567,525 | 42% | 1,103,484 | 31% | 0.0 | \$9.58 | 3.2 |
| 2018 | Total | 29 | 100% | 8.1 | 100% | \$24,992,210 | 100% | 3,581,504 | 100% | 0.0 | \$6.98 | 2.3 |
| 2019 | < 60% | 5 | 26% | 0.5 | 14% | \$1,680,055 | 14% | 636,795 | 18% | 0.0 | \$2.64 | 0.8 |
| 2019 | %08-%09 | 3 | 16% | 1.4 | 39% | \$4,607,395 | 39% | 553,007 | 15% | 0.0 | \$8.33 | 2.6 |
| 2019 | 80%-100% | 2 | 11% | 6.0 | %6 | \$1,086,963 | %6 | 569,113 | 16% | 0.0 | \$1.91 | 9.0 |
| 2019 | 100%-120% | 2 | 11% | 0.2 | 6% | \$714,025 | %9 | 710,802 | 20% | 0.0 | \$1.00 | 0.3 |
| 2019 | >120% | 7 | 37% | 1.1 | 31% | \$3,615,933 | 31% | 1,103,484 | 31% | 0.0 | \$3.28 | 1.0 |
| 2019 | Total | 19 | 100% | 3.6 | 100% | \$11,704,370 | 100% | 3,581,504 | 100% | 0.0 | \$3.27 | 1.0 |
| 2020 | %09> | - | 17% | 0.1 | 10% | \$281,548 | 10% | 636,795 | 18% | 0.0 | \$0.44 | 0.1 |
| 2020 | 80%-80% | - | 17% | 0.2 | 27% | \$743,925 | 27% | 553,007 | 15% | 0.0 | \$1.35 | 0.4 |
| 2020 | 80%-100% | - | 17% | 0.1 | 12% | \$329,908 | 12% | 569,113 | 16% | 0.0 | \$0.58 | 0.2 |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|------------------------------|---------------------|---------------------------------|---------------------------------|-------------------------------------|-----------------------|
| 2020 | 100%-120% | - | 17% | 0.1 | 15% | \$411,840 | 15% | 710,802 | 20% | 0.0 | \$0.58 | 0.2 |
| 2020 | >120% | 2 | 33% | 0.3 | 35% | \$951,925 | 35% | 1,103,484 | 31% | 0.0 | \$0.86 | 0.3 |
| 2020 | Total | 9 | 100% | 8.0 | 100% | \$2,719,145 | 100% | 3,581,504 | 100% | 0.0 | \$0.76 | 0.2 |
| Total | %09> | 15 | 12% | 3.4 | 10% | \$10,066,885 | 10% | 636,795 | 18% | 0.0 | \$15.81 | 5.4 |
| Total | %08-%09 | 15 | 12% | 4.9 | 15% | \$14,990,853 | 15% | 553,007 | 15% | 0.0 | \$27.11 | 8.8 |
| Total | 80%-100% | 19 | 15% | 5.8 | 17% | \$17,337,406 | 17% | 569,113 | 16% | 0.0 | \$30.46 | 10.1 |
| Total | 100%-120% | 29 | 23% | 7.0 | 21% | \$21,415,016 | 21% | 710,802 | 20% | 0.0 | \$30.13 | 6.6 |
| Total | >120% | 49 | 39% | 12.0 | 36% | \$38,743,286 | 38% | 1,103,484 | 31% | 0.0 | \$35.11 | 10.8 |
| Total | Total | 127 | 100% | 33.1 | 100% | \$102,553,445 | 100% | 3,581,504 | 100% | 0:0 | \$28.63 | 9.2 |
| | | | | | | | | | | | | |

TABLE 74. RESIDENTIAL SOLAR LEASE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS BY FY CLOSED 107

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment! Own er Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---|--|--|--|--|
| 2012 | %09> | 0 | %0 | 0.0 | %0 | \$0 | %0 | 61,168 | 7% | 0.0 | \$0.00 | 0.0 |
| 2012 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 101,640 | 12% | 0.0 | \$0.00 | 0.0 |
| 2012 | 80%-100% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 151,346 | 17% | 0:0 | \$0.00 | 0.0 |
| 2012 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 216,988 | 25% | 0:0 | \$0.00 | 0.0 |
| 2012 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 350,196 | 40% | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | 0%0 | 0.0 | %0 | \$0 | %0 | 881,338 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 59,494 | %.2 | 0:0 | \$0.00 | 0.0 |
| 2013 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 109,189 | 12% | 0.0 | \$0.00 | 0.0 |
| 2013 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 150,603 | 17% | 0.0 | \$0.00 | 0.0 |
| 2013 | 100%-120% | 0 | 0% | 0.0 | %0 | \$0 | %0 | 203,157 | 23% | 0.0 | \$0.00 | 0.0 |
| 2013 | >120% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 351,633 | 40% | 0.0 | \$0.00 | 0.0 |
| 2013 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 874,076 | 100% | 0.0 | \$0.00 | 0.0 |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment / Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-------------------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---|--|--|--|--|
| 2014 | ~ 60% | 0 | %0 | 0.0 | 0% | 0\$ | %0 | 57,673 | 7% | 0.0 | \$0.00 | 0.0 |
| 2014 | %08-%09 | 9 | %9 | 0.0 | 2% | \$212,213 | 2% | 103,934 | 12% | 0.1 | \$2.04 | 0.4 |
| 2014 | 80%-100% | 13 | 12% | 0.1 | 11% | \$483,999 | 11% | 149,038 | 17% | 0.1 | \$3.25 | 9.0 |
| 2014 | 100%-120% | 43 | 40% | 0.3 | 42% | \$1,799,656 | 42% | 209,561 | 24% | 0.2 | \$8.59 | 1.6 |
| 2014 | >120% | 45 | 42% | 0.3 | 42% | \$1,828,585 | 42% | 348,270 | 40% | 0.1 | \$5.25 | 1.0 |
| 2014 | Total | 107 | 100% | 8.0 | 100% | \$4,324,454 | 100% | 868,476 | 100% | 0.1 | \$4.98 | 6.0 |
| 2015 | * 09 > | 5 | 1% | 0.0 | 1% | \$163,570 | 1% | 64,361 | 7% | 0.1 | \$2.54 | 0.5 |
| 2015 | %08-%09 | 43 | %2 | 0.3 | %9 | \$1,430,822 | %9 | 306,305 | 11% | 0.4 | \$14.86 | 3.0 |
| 2015 | 80%-100% | 120 | 20% | 6.0 | 19% | \$4,384,447 | 19% | 164,873 | 19% | 0.7 | \$26.59 | 5.5 |
| 2015 | 100%-120% | 165 | 27% | 1.3 | 27% | \$6,309,374 | 27% | 184,613 | 21% | 6.0 | \$34.18 | 7.1 |
| 2015 | >120% | 27.7 | %57 | 2.4 | 48% | \$11,384,379 | 48% | 352,621 | 41% | 0.8 | \$32.29 | 6.7 |
| 2015 | Total | 610 | 100% | 4.9 | 100% | \$23,672,592 | 100% | 862,773 | 100% | 0.7 | \$27.44 | 5.7 |
| 2016 | %09> | 20 | 4% | 0.1 | 4% | \$655,757 | 4% | 60,769 | 7% | 0.3 | \$10.79 | 2.3 |
| 2016 | %08-%09 | 35 | %2 | 0.2 | 6% | \$1,171,212 | %9 | 99,220 | 12% | 0.4 | \$11.80 | 2.5 |
| 2016 | 80%-100% | 84 | 18% | 9.0 | 17% | \$3,079,698 | 17% | 165,331 | 19% | 0.5 | \$18.63 | 3.9 |
| 2016 | 100%-120% | 129 | 27% | 1.0 | 27% | \$4,999,536 | 27% | 187,463 | 22% | 0.7 | \$26.67 | 5.6 |
| 2016 | >120% | 204 | 43% | 1.8 | 46% | \$8,419,238 | 46% | 345,311 | 40% | 0.6 | \$24.38 | 5.1 |
| 2016 | Total | 472 | 100% | 3.8 | 100% | \$18,325,440 | 100% | 858,094 | 100% | 9.0 | \$21.36 | 4.5 |
| Total | %09> | 25 | 2% | 0.2 | 2% | \$819,327 | 2% | 60,769 | 7% | 0.4 | \$13.48 | 2.8 |
| Total | %08-%09 | 84 | 7% | 0.6 | 6% | \$2,814,247 | 6% | 99,220 | 12% | 0.8 | \$28.36 | 5.8 |
| Total | 80%-100% | 217 | 18% | 1.6 | 17% | \$7,948,145 | 17% | 165,331 | 19% | 1.3 | \$48.07 | 6.6 |
| Total | 100%-120% | 337 | 28% | 2.7 | 28% | \$13,108,566 | 28% | 187,463 | 22% | 1.8 | \$69.93 | 14.4 |
| Total | >120% | 526 | 44% | 4.5 | 47% | \$21,632,202 | 47% | 345,311 | 40% | 1.5 | \$62.65 | 12.9 |
| Total | Total | 1,189 | 100% | 9.6 | 100% | \$46,322,487 | 100% | 858,094 | 100% | 1.4 | \$53.98 | 11.1 |

TABLE 75. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED¹⁰⁸

| | | #Pr | # Project Units | | | | MM | | | Total Investment | ment | |
|--------|-------|------|-----------------|---------|-------|------|---------|---------|---------------|------------------|--------------|-------|
| | | | | | | | | | | | | % at |
| | | Over | 100% or | % at | | Over | 100% or | % at | | | | 100% |
| Fiscal | | 100% | Below | 100% or | | 100% | Below | 100% or | | Over 100% | 100% or | ъ |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2012 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | 0\$ | \$0 | %0 |
| 2013 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | 80 | 80 | \$0 | %0 |
| 2014 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2015 | 16 | 7 | 5 | 31% | 3.5 | 2.6 | 6.0 | 24% | \$11,547,562 | \$8,927,562 | \$2,620,000 | 23% |
| 2016 | 27 | 70 | 7 | 76% | 5.5 | 3.9 | 1.5 | 78% | \$16,711,392 | \$12,358,494 | \$4,352,898 | 79% |
| 2017 | 90 | 17 | 13 | 43% | 11.6 | 9.9 | 5.1 | 43% | \$34,878,766 | \$20,942,998 | \$13,935,768 | 40% |
| 2018 | 53 | 18 | 11 | 38% | 8.1 | 4.1 | 4.0 | 46% | \$24,992,210 | \$12,235,525 | \$12,756,685 | 51% |
| 2019 | 19 | 6 | 10 | 23% | 3.6 | 1.3 | 2.3 | 63% | \$11,704,370 | \$4,329,958 | \$7,374,413 | 63% |
| 2020 | 9 | 3 | 3 | 20% | 8.0 | 0.4 | 0.4 | 20% | \$2,719,145 | \$1,363,765 | \$1,355,380 | 20% |
| Total | 127 | 8/ | 49 | 39% | 33.1 | 19.0 | 14.1 | 43% | \$102,553,445 | \$60,158,302 | \$42,395,144 | 41% |
| | | | | | | | | | | | | |

TABLE 76. RESIDENTIAL SOLAR LEASE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED 109

| Total Investment | ** /0 | 7, at 100% or or | · <u> </u> | _ | _ | _ | | | |
|------------------|------------------|------------------|------------|------------|-------------------|--|--|---|---|
| | | | | | | ш | | | |
| | Over 100% | _ | AMI | AMI \$0 | AMI \$0 | ### ### ############################## | \$0 \$0 \$0 \$3,628,242 \$17,693,753 | \$0 \$0 \$3,628,242 \$17,693,753 \$13,418,773 | \$0 \$0 \$3,628,242 \$17,693,753 \$13,418,773 |
| | | Total | 3 | 0\$ | 0\$ | \$0 \$0 \$4,324,454 | | | |
| | % at 100% or | Rolow | ב כ | %0 | %0 %0 | 0% 16% | 0% 0% 16% 25% | 0% 0% 16% 25% 27% | 0% 0% 16% 25% 27% 0% |
| | 100% or Below |) PW | Ē | 0.0 | 0.0 | 0.0 | 0.0 0.1 | 0.0 0.1 1.2 | 0.0 0.1 1.2 1.0 0.0 0.0 |
| | Over 100% | AMI | į | 0:0 | 0.0 | 0.0 | 0.0 0.0 0.7 3.7 | 0.0 0.0 0.7 3.7 2.8 | 0.0 0.0 0.7 3.7 2.8 0.0 |
| | | Total | | 0.0 | 0.0 | 0.0 | 0.0 0.0 0.8 4.9 | 0.0 0.0 0.8 4.9 3.8 | 0.0 0.0 0.8 4.9 3.8 0.0 |
| | % at 100% or | Rolow | | %0 | %0 %0 | 0% | 0% 0% 18% 28% | 0% 0% 18% 28% 29% | 0% 0% 18% 28% 29% 0% |
| | 100% or Below | AMI | | 0 | 0 | 0 0 19 | 0 0 19 168 | 0 0 19 168 139 | 0 0 19 168 139 |
| | Over 100% | AMI | - | 0 | 0 | 0 0 88 | 0 0 88 88 | 0 0 88 88 442 | 0 0 88 88 442 333 |
| | | Total | | 0 | 0 0 | 0 0 107 | 0 0 107 610 | 0 0 107 610 472 | 0 0 107 610 472 |
| | Fiscal | Year | | 2012 | 2012 | 2012 2013 2014 | 2012 2013 2014 2015 | 2012 2013 2014 2015 2016 | 2012 2013 2014 2015 2016 2016 |

¹⁰⁸ Exdudes projects in unknown bands. ¹⁰⁹ Exdudes projects in unknown bands.

| | % at 100% | ٥ | Below | %0 | %0 | 72% |
|------------------|--------------|-----------|-----------|------|------|--------------|
| tment | | 100% or | Below AMI | 80 | 0\$ | \$11,581,719 |
| Total Investment | | Over 100% | AMI | 80 | 0\$ | \$34,740,768 |
| | | | Total | 80 | 0\$ | \$46,322,487 |
| | % at | 100% or | Below | %0 | %0 | 72% |
| MM | 100% or | Below | AMI | 0.0 | 0.0 | 2.4 |
| | Over | 100% | AMI | 0.0 | 0.0 | 7.2 |
| | | | Total | 0.0 | 0.0 | 9.6 |
| | % at | 100% or | Below | %0 | %0 | 27% |
| # Project Units | 100% or | Below | AMI | 0 | 0 | 326 |
| #Pr | Over | 100% | AMI | 0 | 0 | 863 |
| | | | Total | 0 | 0 | 1,189 |
| | | Fiscal | Year | 2019 | 2020 | Total |

Distressed Community Penetration

For a breakdown of Solar Lease project volume and investment by census tracts categorized by Distressed Communities – see Table 77 and Table 78. It should be noted that Solar Lease is not an income targeted program.

TABLE 77. CT GREEN BANK PPA AND COMMERCIAL SOLAR LEASE ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Fiscal Year | Distres sed | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|----------------|----------------|--------------------------|---------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|---------------------------------|------------------------------------|-------------------------------------|-----------------------|
| 2012 | Yes | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,171,385 | 33% | 0.0 | \$0.00 | 0.0 |
| 2012 | No | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 2,400,828 | %19 | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 3,572,213 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | Yes | 0 | %0 | 0.0 | %0 | \$0 | %0 | 1,124,923 | 31% | 0.0 | \$0.00 | 0.0 |
| 2013 | No | 0 | %0 | 0.0 | %0 | \$0 | %0 | 2,458,638 | %69 | 0.0 | \$0.00 | 0.0 |
| 2013 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 3,583,561 | 100% | 0.0 | \$0.00 | 0.0 |
| 2014 | Yes | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,106,027 | 31% | 0.0 | \$0.00 | 0.0 |
| 2014 | No | 0 | %0 | 0.0 | %0 | \$0 | %0 | 2,486,026 | %69 | 0.0 | \$0.00 | 0.0 |
| 2014 | Total | 0 | %0 | 0:0 | %0 | \$0 | %0 | 3,592,053 | 100% | 0.0 | \$0.00 | 0.0 |
| 2015 | Yes | 2 | 13% | 0.1 | 4% | \$416,000 | 4% | 1,122,550 | 31% | 0.0 | \$0.37 | 0.1 |
| 2015 | No | 14 | %88 | 3.3 | %96 | \$11,131,562 | %96 | 2,470,672 | %69 | 0.0 | \$4.51 | 1.4 |
| 2015 | Total | 16 | 100% | 3.5 | 100% | \$11,547,562 | 100% | 3,593,222 | 100% | 0.0 | \$3.21 | 1.0 |
| 2016 | Yes | 1 | 4% | 0.1 | 3% | \$486,864 | 3% | 1,162,653 | 32% | 0.0 | \$0.42 | 0.1 |
| 2016 | No | 26 | %96 | 5.3 | 97% | \$16,224,528 | 81% | 2,425,917 | 68% | 0.0 | \$6.69 | 2.2 |
| 2016 | Total | 22 | 100% | 5.5 | 100% | \$16,711,392 | 100% | 3,588,570 | 100% | 0.0 | \$4.66 | 1.5 |
| 2017 | Yes | 3 | 10% | 2.5 | 22% | \$7,100,532 | 20% | 1,150,554 | 32% | 0.0 | \$6.17 | 2.2 |
| | | | | | | | | | | | | |

| Fiscal Year | Distres sed | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Population | % Population Distribution | Project Units / 1,000 People | Total Investment / Population | Watts / Population |
|----------------|----------------|--------------------------|---------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|---------------------------------|------------------------------------|-------------------------------------|-----------------------|
| 2017 | °Z | 27 | %06 | 9.1 | 78% | \$27,778,234 | %08 | 2,443,924 | %89 | 0.0 | \$11.37 | 3.7 |
| 2017 | Total | 30 | 100% | 11.6 | 100% | \$34,878,766 | 100% | 3,594,478 | 100% | 0.0 | \$9.70 | 3.2 |
| 2018 | Yes | æ | 78% | 4.0 | 20% | \$12,875,130 | 52% | 1,130,773 | 32% | 0.0 | \$11.39 | 3.5 |
| 2018 | °Z | 21 | 72% | 4.1 | 20% | \$12,117,080 | 48% | 2,450,731 | %89 | 0.0 | \$4.94 | 1.7 |
| 2018 | Total | 29 | 100% | 8.1 | 100% | \$24,992,210 | 100% | 3,581,504 | 100% | 0.0 | \$6.98 | 2.3 |
| 2019 | Yes | 5 | 76% | 0.5 | 14% | \$1,600,885 | 14% | 1,102,584 | 31% | 0.0 | \$1.45 | 0.4 |
| 2019 | °Z | 14 | 74% | 3.1 | %98 | \$10,103,485 | 86% | 2,478,920 | %69 | 0.0 | \$4.08 | 1.3 |
| 2019 | Total | 19 | 100% | 3.6 | 100% | \$11,704,370 | 100% | 3,581,504 | 100% | 0.0 | \$3.27 | 1.0 |
| 2020 | Yes | 1 | %21 | 0.1 | 12% | \$329,908 | 12% | 1,102,584 | 31% | 0:0 | \$0.30 | 0.1 |
| 2020 | No | 5 | %88 | 0.7 | %88 | \$2,389,238 | %88 | 2,478,920 | 69% | 0.0 | 96.0\$ | 0.3 |
| 2020 | Total | 9 | 100% | 8.0 | 100% | \$2,719,145 | 100% | 3,581,504 | 100% | 0.0 | \$0.76 | 0.2 |
| Total | Yes | 20 | 16% | 7.4 | 22% | \$22,809,319 | 22% | 1,102,584 | 31% | 0.0 | \$20.69 | 6.7 |
| Total | No | 107 | 84% | 25.7 | %82 | \$79,744,127 | %87 | 2,478,920 | %69 | 0.0 | \$32.17 | 10.4 |
| Total | Total | 127 | 100% | 33.1 | 100% | \$102,553,445 | 100% | 3,581,504 | 100% | 0.0 | \$28.63 | 9.2 |

TABLE 78. RESIDENTIAL SOLAR LEASE ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Fiscal Year | Distres | #of Project Units | % Project Distrib | Installed Capacity (MW) | % MW Distrib ution | Total Investment | % Invest ment Distrib | Total Population | % Population Distribution | Total Investment | Watts | Total Households | % Total House hold Distrib | Total Investment / Total | Watts / Total Household |
|----------------|-----------------|-------------------------|-------------------------|-------------------------------|--------------------------|---------------------|--------------------------------|---------------------|---------------------------------|---------------------|-------|---------------------|-------------------------------------|--------------------------------|-------------------------------|
| 2012 | 30 > | c | monn %O | | 700 | ∪ y | ution 0% | 1 171 285 | 330% | 40 00 | anoli | 717 069 | ution 220% | DIO IDENDIA | 0 |
| 7107 | 0 D | 5 | 800 | 0.0 | 8 | 9 | 8 | 1,171,000 | 00.00 | #0.00 | 5 | 706,144 | e 00 | ۵۵.00 | o o |
| 2012 | °N _o | 0 | %0 | 0.0 | %0 | \$0 | %0 | 2,400,828 | %19 | \$0.00 | 0.0 | 912,222 | %29 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 3,572,213 | 100% | \$0.00 | 0.0 | 1,360,184 | 100% | \$0.00 | 0.0 |
| 2013 | Yes | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,124,923 | 31% | \$0.00 | 0.0 | 426,564 | 31% | \$0.00 | 0.0 |
| 2013 | °Z | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 2,458,638 | %69 | \$0.00 | 0.0 | 929,285 | %69 | \$0.00 | 0.0 |
| 2013 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 3,583,561 | 100% | \$0.00 | 0.0 | 1,355,849 | 100% | \$0.00 | 0.0 |
| 2014 | Yes | 15 | 14% | 0.1 | 12% | \$533,309 | 12% | 1,106,027 | 31% | \$0.48 | 0.1 | 416,415 | 31% | \$1.28 | 0.2 |
| 2014 | Š | 92 | %98 | 7.0 | %88 | \$3,791,145 | %88 | 2,486,026 | %69 | \$1.52 | 0.3 | 939,791 | %69 | \$4.03 | 8.0 |
| 2014 | Total | 107 | 100% | 8.0 | 100% | \$4,324,454 | 100% | 3,592,053 | 100% | \$1.20 | 0.2 | 1,356,206 | 100% | \$3.19 | 9.0 |
| 2015 | Yes | 35 | 16% | 7.0 | 15% | \$3,504,032 | %51 | 1,122,550 | 31% | \$3.12 | 9.0 | 423,559 | 31% | \$8.27 | 1.7 |
| 2015 | °N° | 515 | 84% | 4.2 | 85% | \$20,168,561 | %58 | 2,470,672 | %69 | \$8.16 | 1.7 | 929,024 | %69 | \$21.71 | 4.5 |
| 2015 | Total | 610 | 100% | 4.9 | 100% | \$23,672,592 | 100% | 3,593,222 | 100% | \$6.59 | 1.4 | 1,352,583 | 100% | \$17.50 | 3.6 |
| 2016 | Yes | 97 | 21% | 0.8 | 20% | \$3,601,098 | 20% | 1,162,653 | 32% | \$3.10 | 9.0 | 438,710 | 32% | \$8.21 | 1.7 |
| 2016 | °Z | 375 | 79% | 3.1 | %08 | \$14,724,342 | %08 | 2,425,917 | %89 | \$6.07 | 1.3 | 916,003 | 68% | \$16.07 | 3.4 |
| 2016 | Total | 472 | 100% | 3.8 | 100% | \$18,325,440 | 100% | 3,588,570 | 100% | \$5.11 | 1.1 | 1,354,713 | 100% | \$13.53 | 2.8 |
| Total | Yes | 207 | %21 | 1.6 | 16% | \$7,638,439 | %9L | 1,162,653 | 32% | \$6.57 | 1.4 | 438,710 | 32% | \$17.41 | 3.6 |
| Total | No | 982 | %88 | 8.0 | 84% | \$38,684,047 | %48 | 2,425,917 | %89 | \$15.95 | 3.3 | 916,003 | %89 | \$42.23 | 8.7 |
| Total | Total | 1,189 | 100% | 9.6 | 100% | \$46,322,487 | 100% | 3,588,570 | 100% | \$12.91 | 2.2 | 1,354,713 | 100% | \$34.19 | 7.1 |

Societal Impacts

Ratepayers in Connecticut receive the societal benefits of the CT Green Bank PPA and CT Solar Lease. Over the course of its existence, the program has supported the creation of 1,366 job years and avoided the lifetime emission of 375,065 tons of carbon dioxide, 703,299 pounds of nitrous oxide, 615,827 pounds of sulfur oxide, and 58,316 pounds of particulate matter as illustrated by Table 79 and



6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

Table 81. The Green Bank's PPA's and leases have generated more than \$5.2 million in tax revenue for the state since inception as demonstrated in Table 80. The value of the lifetime public health impacts of the Solar Lease programs is estimated to be between \$23.3 and \$52.7 million as seen in Table 82.

TABLE 79. CT GREEN BANK PPA, COMMERCIAL SOLAR LEASE, AND RESIDENTIAL SOLAR LEASE JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 |
| 2014 | 19 | 31 | 50 |
| 2015 | 152 | 244 | 395 |
| 2016 | 145 | 232 | 378 |
| 2017 | 113 | 147 | 260 |
| 2018 | 77 | 100 | 177 |
| 2019 | 37 | 48 | 86 |
| 2020 | 8 | 11 | 19 |
| Total | 552 | 813 | 1,366 |

TABLE 80. CT GREEN BANK PPA, COMMERCIAL SOLAR LEASE, AND RESIDENTIAL SOLAR LEASE TAX REVENUES GENERATED BY FY CLOSED

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|--|--|-----------------------------------|-----------------------------------|
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$0 | \$0 | \$0 | \$0 |
| 2014 | \$110,473 | \$109,845 | \$0 | \$220,317 |
| 2015 | \$782,978 | \$796,649 | \$0 | \$1,579,627 |
| 2016 | \$726,083 | \$748,181 | \$0 | \$1,474,264 |
| 2017 | \$588,998 | \$389,371 | \$0 | \$978,369 |
| 2018 | \$441,040 | \$180,155 | \$0 | \$621,195 |
| 2019 | \$128,351 | \$132,797 | \$30,537 | \$291,686 |
| 2020 | \$16,796 | \$18,166 | \$0 | \$34,962 |
| Total | \$2,794,719 | \$2,375,164 | \$30,537 | \$5,200,420 |

TABLE 81. CT GREEN BANK PPA, COMMERCIAL SOLAR LEASE, AND RESIDENTIAL SOLAR LEASE AVOIDED EMISSIONS BY FY CLOSED

| | | sions Avoided ons) | NOx Em Avoided | nissions (pounds) | SOx Em | | PM 2.5 (| pounds) |
|----------------|--------|-----------------------|-------------------|----------------------|--------|----------|----------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 518 | 12,863 | 728 | 18,205 | 876 | 21,779 | 38 | 1,169 |
| 2015 | 5,459 | 136,284 | 6,655 | 165,927 | 6,685 | 166,757 | 454 | 11,949 |
| 2016 | 5,976 | 149,711 | 6,412 | 159,931 | 5,073 | 126,541 | 510 | 13,142 |
| 2017 | 7,278 | 181,944 | 6,858 | 171,456 | 5,568 | 139,205 | 621 | 15,521 |
| 2018 | 5,073 | 126,813 | 4,902 | 122,555 | 4,216 | 105,390 | 432 | 10,794 |
| 2019 | 2,171 | 54,284 | 2,100 | 52,494 | 1,808 | 45,194 | 185 | 4,620 |
| 2020 | 527 | 13,166 | 509 | 12,732 | 438 | 10,961 | 45 | 1,121 |
| Total | 27,001 | 675, 065 | 28,164 | 703,299 | 24,664 | 615,827 | 2,284 | 58,316 |

TABLE 82. CT GREEN BANK PPA, COMMERCIAL SOLAR LEASE, AND RESIDENTIAL SOLAR LEASE VALUE OF PUBLIC HEALTH BY FY
CLOSED

Fiscal
Year
Low
High
Low
2012
\$0
\$0

| Fiscal | Ann | nual | Life | time | |
|--------|-----------|-------------|--------------|--------------|--|
| Year | Low | High | Low | High | |
| 2012 | \$0 | \$0 | \$0 | \$0 | |
| 2013 | \$0 | \$0 | \$0 | \$0 | |
| 2014 | \$18,052 | \$40,756 | \$451,294 | \$1,018,901 | |
| 2015 | \$185,071 | \$417,841 | \$4,626,780 | \$10,446,029 | |
| 2016 | \$205,570 | \$464,123 | \$5,139,261 | \$11,603,074 | |
| 2017 | \$256,927 | \$580,072 | \$6,423,171 | \$14,501,799 | |
| 2018 | \$178,063 | \$402,019 | \$4,451,584 | \$10,050,483 | |
| 2019 | \$79,770 | \$180,100 | \$1,994,260 | \$4,502,505 | |
| 2020 | \$10,627 | \$23,994 | \$265,687 | \$599,850 | |
| Total | \$934,081 | \$2,108,906 | \$23,352,037 | \$52,722,640 | |

Financing Program

The CT Solar Lease 2 fund was a financing structure developed in partnership with a tax equity investor (i.e., US Bank) and a syndicate of local lenders (i.e. Key Bank and Webster Bank) that used a credit enhancement (i.e., \$3,500,000 loan loss reserve), 110 in combination with \$2.3 million in subordinated debt and \$11.5 million in sponsor equity from the Connecticut Green Bank as the "member manager" to provide approximately \$80 million in lease financing for residential and commercial solar PV projects. Through the product, the Connecticut Green Bank lowered the barriers to Connecticut residential and commercial customers seeking to install solar PV with no up-front investment, thus increasing demand, while at the same time reducing the market's reliance on subsidies through the RSIP or being more

¹¹⁰ From repurposed American Recovery and Reinvestment Act funds

6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

competitive in a reverse auction through the Zero Emission Renewable Energy Credit (ZREC) program. As a lease (or PPA for certain commercial customers), capital provided to consumers through the CT Solar Lease is now being returned to the Connecticut Green Bank, the tax equity investor and the lenders – it is not a subsidy. The financial structure of the CT Solar Lease product, both historically and on an ongoing basis through the CT Solar Lease 3 fund, includes origination by contractors, servicing of lease and PPA payments, insurance and "one call" system performance and insurance resolution, and financing features in combination with the support of the Connecticut Green Bank, whereas under the partnership with Onyx Renewables, the Connecticut Green Bank originates projects together with local contractors, but Onyx Renewables then provides the long-term financing and holds the ongoing asset management responsibilities.

Financial Performance

To date there are no defaults and as of June 30, 2020 there are 21 delinquencies totaling \$32,307 in the Commercial Solar Lease and CT Green Bank PPA portfolio.

To date there are 9 defaults with an original principal balance of \$230,815 or 0.83% of the Residential Solar Lease portfolio and as of June 30, 2020 there are 22 delinquencies.

The household customers that accessed the CT Solar Lease since its launch in 2014 had varying credit scores – see Table 83.

TABLE 83. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE CT SOLAR LEASE BY FY CLOSED

| Fiscal Year | Unknown | 580-599 | 600-639 | 640-679 | 680-699 | 700-719 | 720-739 | 740-779 | 780+ | Grand Total |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------------|
| 2012 | - | - | _ | | | | - | - | - | - |
| 2013 | - | - | - | - | - | | - | _ | - | - |
| 2014 | - | _ | - | 4 | | 5 | 6 | 25 | 67 | 107 |
| 2015 | 2 | 2 | - | 26 | 23 | 39 | 38 | 134 | 348 | 610 |
| 2016 | 2 | - | 1 | 15 | 16 | 34 | 41 | 105 | 258 | 472 |
| Total | 4 | - | 1 | 45 | 39 | 78 | 85 | 264 | 673 | 1, 189 |
| | 0% | - | 0% | 4% | 3% | 7% | 7% | 22% | 57% | 100% |
| | ¢0 | RD | 190 | | | | | | | |

6. PROGRAMS - CT GREEN BANK PPA AND CT SOLAR LEASE

Projects 400 350 CreditRange * 300 Unknown 250 **600-639** =640-679200 680-699 150 **700-719** 100 **720-739 740-779** 50 **780+** 0 2014 2015 2016 Solar Lease + -

FIGURE 7. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE CT SOLAR LEASE BY FY CLOSED

Marketing

TO ACCELERATE DEPLOYMENT OF RESIDENTIAL SOLAR PV THROUGH THE RSIP AND THE UPTAKE OF THE CT RESIDENTIAL SOLAR LEASE FINANCING PRODUCT, THE CONNECTICUT GREEN BANK IMPLEMENTED THE SOLARIZE CONNECTICUT PROGRAM. GREEN BANK-SPONSORED SOLARIZE PROGRAMS UTILIZE GROUP PURCHASING, TIME-LIMITED OFFERS, AND GRASSROOTS OUTREACH, AND LOCAL CLEAN ENERGY ADVOCATES WHO VOLUNTEER AND COORDINATE WITH THEIR TOWNS TO HELP SPEED THE PROCESS — SEE

Table 84. The Green Bank also implemented channel marketing through residential and commercial solar installers who gained the ability to grow their businesses by providing the CT Residential Solar Lease product to their customers.

TABLE 84. NUMBER OF RESIDENTIAL PROJECTS, INVESTMENT, AND INSTALLED CAPACITY THROUGH GREEN BANK SOLARIZE CONNECTICUT FOR THE CT SOLAR LEASE FINANCING PRODUCT

| Solarize | # of Projects | Total Investment | Installed Capacity (MW) |
|--------------|---------------|------------------|-------------------------|
| Solarize | 325 | \$12,418,840 | 2.5 |
| Not Solarize | 864 | \$33,903,647 | 7.0 |
| Total | 1,189 | \$46,322,487 | 9.6 |
| % Solarize | 27% | 27% | 27% |

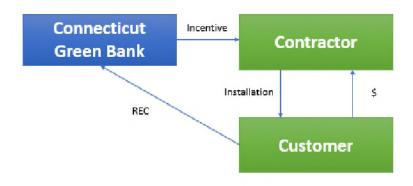
The Green Bank Solarize Connecticut program provided a marketing channel and origination catalyst for the CT Residential Solar Leases comprising 27 percent of the total projects, investment, and installed capacity.

Case 3 – Residential Solar Investment Program

Description

The RSIP is a subsidy program that provides incentives to reduce the cost for homeowners to own solar photovoltaic (PV) systems or for third party owners (TPOs) to provide clean electricity from solar PV systems through leases or power purchase agreements (PPAs) with homeowners. Incentives are provided either upfront (i.e., through an expected performance-based buy-down or EPBB) for homeowner-owned systems or are paid out over time¹¹¹ based on system production (i.e., through a performance-based incentive or PBI and a low to moderate income performance-based incentive or LMI-PBI) for third-party owned projects. With either incentive type, the Renewable Energy Credits (RECs) are owned by the Connecticut Green Bank.

FIGURE 8. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR THE RSIP¹¹²



The subsidy under the RSIP has decreased over time – see Table 85, supporting the goal of reducing market reliance on incentives while moving it towards innovative low-cost financing and sustained orderly development.

oses only

TABLE 85. RSIP SUBSIDY BY STEP AND INCENTIVE TYPE

| | 1077 | | EPBB | | | PBI | L | MI |
|---------|--------------------------------|---------|---------|---------|---------|---------|--------|---------|
| RSIP | | | (\$/W) | | (\$/ | kWh) | (\$/k | :Wh) |
| Subsidy | | | 5 to 10 | >10 kW, | | >10 kW, | | >10 kW, |
| by Step | Start Date | ≤5 kW | kW | ≤ 20 kW | ≤10 kW | ≤ 20 kW | ≤10 kW | ≤ 20 kW |
| Step 1 | 3/2/2012 | \$2.450 | \$1.250 | \$0.000 | \$0.300 | \$0.000 | N/A | N/A |
| Step 2 | 5/8/2012 | \$2.275 | \$1.075 | \$0.000 | \$0.300 | \$0.000 | N/A | N/A |
| Step 3 | 1/4/2013 EPBB, 4/1/2013 PBI | \$1.750 | \$0.550 | \$0.000 | \$0.225 | \$0.000 | N/A | N/A |
| Step 4 | 1/6/2014 | \$1.250 | \$0.750 | \$0.000 | \$0.180 | \$0.000 | N/A | N/A |
| Step 5 | 9/1/2014 | \$0. | 800 | \$0.400 | \$0.125 | \$0.060 | N/A | N/A |

¹¹¹ The PBI is paid out quarterly over a period of six years.

¹¹² The Green Bank incentive is issued to the Contractor on behalf of the Customer. In the case of Third-Party Owned systems, RECs flow from the Contractor to the Connecticut Green Bank.

| RSIP | | | EPBB (\$/W) | | | PBI kWh) | LMI (\$/kWh) | | | |
|--------------------|------------|-------|----------------|--------------------|---------|--------------------|-----------------|--------------------|--|--|
| Subsidy by Step | Start Date | ≤5 kW | 5 to 10 kW | >10 kW, ≤ 20 kW | ≤10 kW | >10 kW, ≤ 20 kW | ≤10 kW | >10 kW, ≤ 20 kW | | |
| Step 6 | 1/1/2015 | \$0.6 | 675 | \$0.400 | \$0.080 | \$0.060 | N/A | N/A | | |
| Step 7 | 4/11/2015 | \$0.5 | 540 | \$0.400 | \$0.064 | \$0.060 | N/A | N/A | | |
| Step 8 | 8/8/2015 | \$0.5 | 540 | \$0.400 | \$(| 0.054 | \$0.110 | \$0.055 | | |
| Step 9 | 2/1/2016 | \$0.5 | 513 | \$0.400 | \$(| 0.046 | \$0.110 | \$0.055 | | |
| Step 10 | 9/1/2016 | \$0.4 | 487 | \$0.400 | \$(| 0.039 | \$0.110 | \$0.055 | | |
| Step 11 | 8/1/2017 | \$0.4 | 487 | \$0.400 | \$0 | 0.039 | \$0.110 | \$0.055 | | |
| Step 12 | 1/15/2018 | \$0.4 | 463 | \$0.400 | \$(| 0.035 | \$0.110 | \$0.055 | | |
| Step 13 | 6/1/2018 | \$0.4 | 463 | \$0.400 | \$(| 0.035 | \$0.090 | \$0.045 | | |
| Step 14 | 9/24/2018 | \$0.4 | 463 | \$0.400 | \$(| 0.035 | \$0.090 | \$0.045 | | |
| Step 15 | 1/15/2020 | \$0.4 | 426 | \$0.328 | \$(| 0.030 | \$0.081 | \$0.041 | | |

Key Performance Indicators

The Key Performance Indicators for RSIP closed activity are reflected in Table 86 through Table 91. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced. They also present the volume of projects by energy efficiency, renewable generation, or both. It should be noted that for all RSIP requires that, as part of the requirements for receiving an RSIP incentive, an energy efficiency assessment be conducted through the utility-administered Home Energy Solutions (HES) program, the DOE Home Energy Score, or RSIP-approved alternatives such as audits performed by BPI-certified professionals. 113 Consequently, each RSIP project from solar PV (i.e. RE project) also includes EE. The benefits from the EE measures (e.g., investment, savings, etc.) have not been calculated, as approximately 90% of energy efficiency assessments are conducted through the HES program for which benefits are tracked by the Connecticut Energy Efficiency Fund. 114 The Key performance Indicators for RSIP only include the investment and impact of the renewable energy installation and not those stemmed from the energy audits.

TABLE 86. RSIP PROJECT TYPES AND INVESTMENT BY FY CLOSED

| Fiscal | # | Total | Green Bank | Private | Leverage |
|--------|----------|---------------|---------------|---------------|----------|
| Year | Projects | Investment | Investment115 | Investment | Ratio |
| 2012 | 288 | \$9,901,511 | \$3,401,642 | \$6,499,869 | 2.9 |
| 2013 | 1,109 | \$35,426,043 | \$11,915,456 | \$23,510,587 | 3.0 |
| 2014 | 2,382 | \$73,853,653 | \$20,049,114 | \$53,804,539 | 3.7 |
| 2015 | 6,397 | \$214,705,219 | \$33,191,989 | \$181,513,230 | 6.5 |
| 2016 | 6,804 | \$218,107,091 | \$18,842,814 | \$199,264,277 | 11.6 |
| 2017 | 4,465 | \$120,797,529 | \$11,600,036 | \$109,197,493 | 10.4 |
| 2018 | 5,202 | \$149,130,705 | \$12,739,818 | \$136,390,887 | 11.7 |
| 2019 | 6,955 | \$210,489,564 | \$16,089,664 | \$194,399,900 | 13.1 |
| 2020 | 7,921 | \$235,505,360 | \$16,849,620 | \$218,655,740 | 14.0 |

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Non-HES audits were performed by Building Performance Institute (BPI) certified auditors, Home Energy Rating System (HERS) raters, other certified energy managers or were exempt due to being new construction or having a health and safety exemption.

¹¹⁴ RSIP-wide, an estimated 90% of audits performed were either HES audits or DOE Home Energy Scores (HES). In FY20, 95% of audits were either HES or DOE HES.

¹¹⁵ Includes incentives, interest rate buydowns and loan loss reserves.

| Fiscal | # | Total | Green Bank | Private | Leverage |
|--------|----------|-----------------|---------------|-----------------|----------|
| Year | Projects | Investment | Investment115 | Investment | Ratio |
| Total | 41,523 | \$1,267,916,674 | \$144,680,151 | \$1,123,236,523 | 8.8 |

TABLE 87. RSIP PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) | Annual Cost Savings | Lifetime Cost Savings |
|----------------|-------------------------------|-------------------------------------|---|--|--|------------------------|--------------------------|
| 2012 | 1,940.2 | 2,209,534 | 55,238 | 7,539 | 188,473 | \$345,254 | \$8,631,360 |
| 2013 | 7,889.9 | 8,984,961 | 224,624 | 30,657 | 766,417 | \$1,329,469 | \$33,236,730 |
| 2014 | 17,125.1 | 19,502,075 | 487,552 | 66,541 | 1,663,527 | \$2,855,542 | \$71,388,540 |
| 2015 | 48,745.9 | 55,511,854 | 1,387,796 | 189,406 | 4,735,161 | \$7,668,724 | \$191,718,090 |
| 2016 | 53,340.1 | 60,743,706 | 1,518,593 | 207,258 | 5,181,438 | \$8,156,635 | \$203,915,880 |
| 2017 | 34,759.8 | 39,584,494 | 989,612 | 135,062 | 3,376,557 | \$5,352,642 | \$133,816,050 |
| 2018 | 42,372.3 | 48,253,598 | 1,206,340 | 164,641 | 4,116,032 | \$6,236,158 | \$155,903,940 |
| 2019 | 59,250.5 | 67,474,458 | 1,686,861 | 230,223 | 5,755,571 | \$8,337,654 | \$208,441,350 |
| 2020 | 66,271.3 | 75,469,756 | 1,886,744 | 257,503 | 6,437,570 | \$9,495,695 | \$237,392,370 |
| Total | 331,695.1 | 377,734,437 | 9,443,361 | 1,288,830 | 32,220,747 | \$49,777,772 | \$1,244,444,310 |

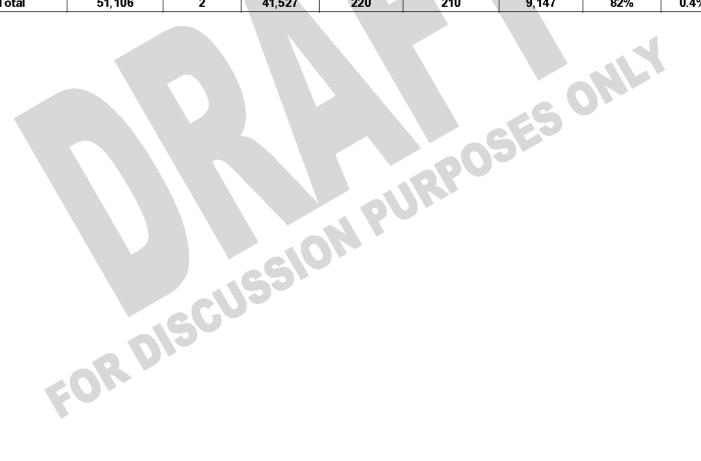
TABLE 88. RSIP PROJECT AVERAGES BY FY CLOSED

| Fiscal | Average Installed Capacity | Average Annual Saved / Produced | Average Incentive | Total Average | Average Incentive | Average Installed Cost | Incentive % | Net Cost to Customer after RSIP |
|--------|----------------------------------|---------------------------------------|----------------------|------------------|----------------------|------------------------------|-------------|---------------------------------------|
| Year | (kW) | (MMBtu) | Amount | Investment | (\$/W) | (\$/W) ¹¹⁶ | of Cost | Incentive |
| 2012 | 6.7 | 26 | \$11,811 | \$34,380 | \$1.75 | \$5.13 | 34% | \$22,569 |
| 2013 | 7.1 | 28 | \$10,744 | \$31,944 | \$1.51 | \$4.32 | 34% | \$21,200 |
| 2014 | 7.2 | 28 | \$8,417 | \$31,005 | \$1.17 | \$4.07 | 27% | \$22,588 |
| 2015 | 7.6 | 30 | \$5,189 | \$33,563 | \$0.68 | \$3.92 | 15% | \$28,375 |
| 2016 | 7.8 | 30 | \$2,769 | \$32,056 | \$0.35 | \$3.41 | 9% | \$29,286 |
| 2017 | 7.8 | 30 | \$2,598 | \$27,054 | \$0.33 | \$3.33 | 10% | \$24,456 |
| 2018 | 8.1 | 32 | \$2,449 | \$28,668 | \$0.30 | \$3.41 | 9% | \$26,219 |
| 2019 | 8.5 | 33 | \$2,313 | \$30,264 | \$0.27 | \$3.45 | 8% | \$27,951 |
| 2020 | 8.4 | 33 | \$2,127 | \$29,732 | \$0.25 | \$3.48 | 7% | \$27,605 |
| Total | 8.0 | 31 | \$3,484 | \$30,535 | \$0.44 | \$3.54 | 11% | \$27,051 |

¹¹⁶ Average Installed Cost per Watt figures include reported installed costs without including those projects where financing costs for some third-party ownership installers are included as part of the installed cost and projects that include battery storage costs. Total Average Investment, Incentive % of Cost and Net Cost to Customer are calculated based on Average Installed Cost.

TABLE 89. RSIP PROJECT APPLICATION YIELD 117 BY FY RECEIVED

| Fiscal Year | Applications Received | Applicatio ns in Review | Applicatio ns Approved | Application s Withdrawn | Applications Denied | Application s Cancelled | Approved Rate | Denied Rate |
|----------------|--------------------------|-------------------------------|------------------------------|-------------------------------|------------------------|-------------------------|------------------|----------------|
| 2012 | 382 | () | 291 | 0 | 39 | 52 | 76% | 10% |
| | | | | | - | | | |
| 2013 | 1,279 | 0 | 1,137 | 0 | 17 | 125 | 89% | 1.3% |
| 2014 | 2,797 | 0 | 2,516 | 0 | 15 | 266 | 90% | 0.5% |
| 2015 | 7,872 | 0 | 6,420 | 0 | 20 | 1,432 | 82% | 0.3% |
| 2016 | 8,711 | 0 | 6,741 | 0 | 30 | 1,940 | 77% | 0.3% |
| 2017 | 5,309 | 0 | 4,425 | 0 | 35 | 849 | 83% | 0.7% |
| 2018 | 6,612 | 0 | 5,128 | 51 | 38 | 1,395 | 78% | 0.6% |
| 2019 | 9,009 | 0 | 7,034 | 87 | 12 | 1,876 | 79% | 0.1% |
| 2020 | 9,135 | 2 | 7,835 | 82 | 4 | 1,212 | 87% | 0.0% |
| Total | 51, 106 | 2 | 41,527 | 220 | 210 | 9,147 | 82% | 0.4% |



¹¹⁷ Applications Received are applications for incentives submitted to RSIP for review. Applications in Review are submitted applications yet to be reviewed, approved or rejected. Applications Withdrawn are those that have been withdrawn by the submitter due to the need for corrections. Applications Denied are those that are not approved for an incentive because the project does not meet RSIP requirements. Applications Cancelled include projects that: (1) were rejected due to need for corrections and not resubmitted and successfully approved, (2) expired before the project was installed, or (3) did not move forward (e.g., customer cancellation) and the contractor cancelled the project. The Approved Rate reflects the number of Applications Approved relative to the number of Applications Received.

TABLE 90. RSIP SYSTEMS CLOSED THROUGH THE SUBSIDY BY STEP

| DOID | | | | | Average | | | ZREC Equivale |
|---------|-----------|---------------|-----------------|----------------------|-----------------------|-----------|-----------------|------------------|
| RSIP | Installed | Incentive | Total | Average Incentive | Installed Cost | Incentive | Net Cost to | nt Incentive |
| Subsidy | Capacity | | Investment | | (\$/W) ¹¹⁸ | % of Cost | | |
| by Step | (kW) | Amount | | (\$/W) | | | Customer | (\$/MWh) |
| Step 1 | 1,380.8 | \$2,470,307 | \$7,222,670 | \$1.79 | \$5.27 | 34% | \$4,752,363 | \$1 39 |
| Step 2 | 5,998.5 | \$9,767,901 | \$27,018,842 | \$1.63 | \$4.34 | 36% | \$17,250,941 | \$121 |
| Step 3 | 13,101.2 | \$16,097,888 | \$55,880,576 | \$1.23 | \$4.11 | 29% | \$39,782,688 | \$94 |
| Step 4 | 19,283.7 | \$19,909,430 | \$84,856,444 | \$1.03 | \$4.06 | 23% | \$64,947,014 | \$77 |
| Step 5 | 13,373.8 | \$9,966,420 | \$59,676,421 | \$0.75 | \$3.96 | 17% | \$49,710,001 | \$58 |
| Step 6 | 12,221.2 | \$6,262,639 | \$54,119,436 | \$0.51 | \$3.93 | 12% | \$47,856,798 | \$42 |
| Step 7 | 19,078.8 | \$7,626,405 | \$83,043,466 | \$0.40 | \$3.67 | 9% | \$75,417,060 | \$32 |
| Step 8 | 27,133.9 | \$9,664,139 | \$111,952,544 | \$0.36 | \$3.41 | 9% | \$102,288,405 | \$2 9 |
| Step 9 | 26,108.3 | \$8,670,386 | \$99,040,378 | \$0.33 | \$3.36 | 9% | \$90,369,992 | \$2 5 |
| Step 10 | 30,015.9 | \$9,761,560 | \$103,423,914 | \$0.33 | \$3.29 | 9% | \$93,662,354 | \$22 |
| Step 11 | 18,119.7 | \$5,868,381 | \$63,621,686 | \$0.32 | \$3.40 | 9% | \$57,753,305 | \$2 3 |
| Step 12 | 16,148.6 | \$4,517,203 | \$57,298,221 | \$0.28 | \$3.43 | 8% | \$52,781,018 | \$20 |
| Step 13 | 19,143.3 | \$5,148,925 | \$67,156,787 | \$0.27 | \$3.40 | 8% | \$62,007,861 | \$19 |
| Step 14 | 84,483.4 | \$22,934,370 | \$299,983,203 | \$0.27 | \$3.46 | 8% | \$277,048,833 | \$20 |
| Step 15 | 26,068.2 | \$5,996,805 | \$93,474,548 | \$0.23 | \$3.52 | 6% | \$87,477,742 | \$17 |
| Unknown | 36.0 | \$17,390 | \$147,537 | \$0.48 | \$3.76 | 12% | \$130,147 | \$42 |
| Total | 331,695.1 | \$144,680,151 | \$1,267,916,674 | \$0.44 | \$3.54 | 11% | \$1,123,236,523 | \$32 |

TABLE 91. RSIP THIRD PARTY OWNED (PBI) VS HOMEOWNER-OWNED SYSTEMS (EPBB)

| 7 | # of PBI | % PBI | # of EPBB | % EPBB | Total |
|-------------|----------|----------|-----------|----------|--------|
| Fiscal Year | Projects | Projects | Projects | Projects | |
| 2012 | 58 | 20% | 230 | 80% | 288 |
| 2013 | 346 | 31% | 763 | 69% | 1,109 |
| 2014 | 1,168 | 49% | 1,214 | 51% | 2,382 |
| 2015 | 4,628 | 72% | 1,769 | 28% | 6,397 |
| 2016 | 5,841 | 86% | 963 | 14% | 6,804 |
| 2017 | 3,384 | 76% | 1,081 | 24% | 4,465 |
| 2018 | 3,892 | 75% | 1,310 | 25% | 5,202 |
| 2019 | 5,526 | 79% | 1,429 | 21% | 6,955 |
| 2020 | 6,382 | 81% | 1,539 | 19% | 7,921 |
| Total | 31,225 | 75% | 10,298 | 25% | 41,523 |

There are 31,225 PBI systems (owned by a third party) representing 75% of closed RSIP projects, and 10,298 EPBB or homeowner-owned projects, representing 25% of closed RSIP volume.

¹¹⁸ Average Installed Cost per Watt figures include reported installed costs without including those projects where financing costs for some third-party ownership installers are included as part of the installed cost and projects that include battery storage costs. Incentive % of Cost is calculated based on Average Installed Cost.

Area Median Income Band Penetration

Directors approved the Income-Targeted incentive to better penetrate these tracts and to create inclusive prosperity. This special incentive is one of For a breakdown of RSIP project volume and investment by census tracts categorized by Area Median Income (AMI) bands – see Table 92. It should be noted that RSIP is not an income targeted program. However, following the UCONN study¹¹⁹ in December of 2014, the Green Bank Board of the methods through which the Green Bank has expanded its reach of previously underserved communities.

119 The memo, titled 7cii_Role of a Green Bank_Market Analysis_Low Income Solar and Housing_Memo_121214, can be found amongst board meeting materials here: https://www.ctgreenbank.com/wp-content/uploads/2017/07/CGB_BOD_Online-Meeting-Materials_121914_redacted.pdf

80%, and 80-100% AMI, exceeded the percent distribution of those income bands among owner-occupied 1-4 unit households, and this holds for Table 93 shows that starting in fiscal year 2016, the percent distribution of solar PV projects in the low to moderate income bands, i.e., < 60%, 60-RSIP overall as illustrated by the totals in



Table 93.

Table 92. RSIP ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS BY FY CLOSED 120

| | _ | | _ | _ | | _ | _ | | | _ | | _ | | _ | | _ | | _ | _ | | _ |
|-----------|---|---|---|---|---|--|---|--|---|---|--|---|---|---|---|---|--|--|--|---|---|
| 8.0 | 6.0 | 2.8 | 2.4 | 2.7 | 2.2 | 3.1 | 3.0 | 8.5 | 7.5 | 13.0 | 0.6 | 11.0 | 9.6 | 26.8 | 20.6 | 20.6 | 19.7 | 32.9 | 54.0 | 63.7 | 67.8 |
| \$3.62 | \$1.42 | \$14.10 | \$12.43 | \$13.50 | \$11.24 | \$13.95 | \$14.18 | \$39.65 | \$36.07 | \$56.36 | \$40.52 | \$48.77 | \$43.47 | \$117.16 | \$89.72 | \$86.94 | \$84.95 | \$143.29 | \$235.63 | \$287.27 | \$300.29 |
| 0.2 | 0.1 | 0.4 | 0.4 | 0.4 | 0.3 | 0.5 | 0.5 | 1.3 | 1.1 | 1.7 | 1.3 | 1.9 | 1.5 | 3.8 | 2.8 | 2.7 | 2.7 | 5.4 | 7.8 | 8.7 | 8.9 |
| %2 | 12% | 17% | 25% | 40% | 100% | %2 | 13% | 17% | 23% | 40% | %001 | %2 | 12% | %21 | 24% | 40% | 100% | %8 | 11% | 19% | 21% |
| 62,689 | 102,178 | 150,685 | 216,484 | 349,212 | 881,248 | 61,004 | 109,967 | 149,676 | 202,827 | 350,708 | 874,182 | 59,294 | 104,528 | 148,846 | 208,912 | 347,779 | 869,359 | 66,632 | 96,059 | 165,205 | 183,629 |
| 2% | 1% | 21% | 27% | 48% | 100% | 2% | 4% | 17% | 21% | 26% | 100% | 4% | %9 | 24% | 25% | 41% | 100% | 4% | 11% | 22% | 26% |
| \$227,144 | \$144,970 | \$2,125,276 | \$2,689,978 | \$4,714,144 | \$9,901,511 | \$850,831 | \$1,559,072 | \$5,934,297 | \$7,316,674 | \$19,765,168 | \$35,426,043 | \$2,891,690 | \$4,543,322 | \$17,439,117 | \$18,744,057 | \$30,235,467 | \$73,853,653 | \$9,548,009 | \$22,634,538 | \$47,458,460 | \$55,141,516 |
| 3% | 2% | 21% | 26% | 48% | 100% | 2% | 4% | 16% | 19% | %89 | 100% | 4% | %9 | 23% | 75% | 42% | 100% | 4% | 11% | 22% | 26% |
| 0.1 | 0.0 | 0.4 | 0.5 | 6.0 | 1.9 | 0.2 | 0.3 | 1.3 | 1.5 | 4.6 | 6.7 | 0.7 | 1.0 | 4.0 | 4.3 | 7.2 | 17.1 | 2.2 | 5.2 | 10.5 | 12.5 |
| 3% | 2% | 23% | 27% | 45% | 100% | 3% | 2% | 18% | 20% | 54% | 100% | 2% | %2 | 24% | 25% | 40% | 100% | %9 | 12% | 22% | 25% |
| 10 | 9 | 99 | 7.7 | 129 | 288 | 32 | 55 | 195 | 223 | 604 | 1,109 | 112 | 162 | 573 | 586 | 949 | 2,382 | 362 | 748 | 1,433 | 1,629 |
| %09> | %08-%09 | 80%-100% | 100%-120% | >120% | Total | %09> | %08-%09 | 80%-100% | 100%-120% | >120% | Total | %09> | %08-%09 | 80%-100% | 100%-120% | >120% | Total | %09> | %08-%09 | 80%-100% | 100%-120% |
| | | | | | | | | | | | | | | | | | | | | | П |
| | 10 3% \$227,144 2% 62,689 7% 0.2 \$3.62 | 10 3% \$227,144 2% 62,689 7% 0.2 \$3.62 6 2% 0.0 2% \$144,970 1% 102,178 12% 0.1 \$1.42 | 10 3% \$227,144 2% 62,689 7% 0.2 \$3.62 6 2% 0.0 2% \$144,970 1% 102,178 12% 0.1 \$1.42 % 66 23% 0.4 21% \$21,25,76 21% 150,685 17% 0.4 \$14.10 | 10 3% \$227,144 2% 62,689 7% 0.2 \$3.62 6 2% 0.0 2% \$144,970 1% 102,178 12% 0.1 \$1.42 % 66 23% 0.4 21% \$2,125,276 21% 150,685 17% 0.4 \$14.10 % 77 27% 0.5 26% \$2,689,978 27% 216,484 25% 0.4 \$12.43 | 10 3% \$227,144 2% 62,689 7% 0.2 \$3.62 3% 6 2% 0.0 2% \$144,970 1% 102,178 12% 0.1 \$1.42 10% 66 23% 0.4 21% \$21% 17% 0.4 \$14,10 120% 77 27% 21% 216,484 25% 0.4 \$12,43 129 45% 0.9 48% \$4,714,144 48% 349,212 40% 0.4 \$13.50 | 10 3% 6.2 \$227,144 2% 62,689 7% 0.2 \$3.62 10% 6 2% 0.0 2% \$144,970 1% 102,178 12% 0.1 \$1.42 100% 66 23% 0.4 \$21,25,276 21% 150,685 17% 0.4 \$14.10 -120% 77 27% 0.5 26% \$2,689,978 27% 216,484 25% 0.4 \$12.43 6 129 45% 0.9 48% \$4,714,144 48% 349,212 40% 0.4 \$13.50 8 100% 1.9 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¹²⁰ Excludes projects in unknown bands.

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investmen t | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units /1,000 Owner Occupied 1-4 Unit Households | Total Investment/ Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|----------------------|---------------------------------|--|--|---|--|--|
| 2015 | >120% | 2,225 | 35% | 18.4 | 38% | \$79,922,696 | 37% | 352,053 | 41% | 6.3 | \$227.02 | 52.2 |
| 2015 | Total | 6,397 | 100% | 48.7 | 100% | \$214,705,219 | 100% | 863,578 | 100% | 7.4 | \$248.62 | 56.4 |
| 2016 | %09> | 614 | %6 | 4.0 | 8% | \$16,012,915 | %1 | 63,056 | 4.2 | 9.7 | \$253.95 | 64.2 |
| 2016 | %08-%09 | 1,158 | 17% | 8.1 | 15% | \$32,983,866 | 15% | 99,073 | 12% | 11.7 | \$332.92 | 82.1 |
| 2016 | 80%-100% | 1,576 | 23% | 12.0 | 23% | \$49,147,172 | 23% | 165,012 | 19% | 9.6 | \$297.84 | 72.8 |
| 2016 | 100%-120% | 1,611 | 24% | 12.7 | 24% | \$52,710,636 | 24% | 187,129 | 22% | 8.6 | \$281.68 | 68.0 |
| 2016 | >120% | 1,845 | 27% | 16.4 | 31% | \$67,252,501 | 31% | 344,577 | 40% | 5.4 | \$195.17 | 47.7 |
| 2016 | Total | 6,804 | 100% | 53.3 | 100% | \$218,107,091 | 100% | 858,847 | 100% | 6.7 | \$253.95 | 62.1 |
| 2017 | %09> | 533 | 12% | 3.4 | 10% | \$12,312,139 | 10% | 64,755 | %1 | 8.2 | \$190.13 | 52.6 |
| 2017 | %08-%09 | 996 | 22% | 6.7 | 19% | \$23,809,050 | 20% | 97,455 | 11% | 6.6 | \$244.31 | 68.9 |
| 2017 | 80%-100% | 1,005 | 23% | 7.7 | 22% | \$26,283,623 | 22% | 155,414 | 18% | 6.5 | \$169.12 | 49.4 |
| 2017 | 100%-120% | 869 | 19% | 7.3 | 21% | \$24,814,636 | 21% | 209,484 | 24% | 4.1 | \$118.46 | 34.6 |
| 2017 | >120% | 1,092 | 24% | 9.7 | 28% | \$33,578,080 | 28% | 339,362 | 39% | 3.2 | \$98.94 | 28.6 |
| 2017 | Total | 4,465 | 100% | 34.8 | 100% | \$120,797,529 | 100% | 866,470 | 100% | 5.2 | \$139.41 | 40.1 |
| 2018 | %09> | 270 | 11% | 3.7 | %6 | \$14,083,755 | %6 | 62,247 | %2 | 9.2 | \$226.26 | 60.2 |
| 2018 | %08-%09 | 1,094 | 21% | 0.8 | 19% | \$28,492,795 | 19% | 109,142 | 13% | 10.0 | \$261.06 | 73.3 |
| 2018 | 80%-100% | 1,205 | 23% | 5.6 | 23% | \$33,803,919 | 23% | 145,988 | 17% | 8.3 | \$231.55 | 66.5 |
| 2018 | 100%-120% | 1,029 | 20% | 8.6 | 20% | \$29,822,878 | 20% | 204,880 | 24% | 0.3 | \$145.56 | 41.8 |
| 2018 | >120% | 1,304 | 25% | 12.3 | 29% | \$42,927,358 | 29% | 343,989 | 40% | 3.8 | \$124.79 | 35.9 |
| 2018 | Total | 5,202 | 100% | 42.4 | 100% | \$149,130,705 | 100% | 866,246 | 100% | 0.9 | \$172.16 | 48.9 |
| 2019 | %09> | 697 | 11% | 5.3 | %6 | \$19,767,214 | %6 | 62,247 | %2 | 12.4 | \$317.56 | 84.4 |
| 2019 | %08-%09 | 1,410 | 20% | 10.5 | 18% | \$37,462,136 | 18% | 109,142 | 13% | 12.9 | \$343.24 | 96.0 |
| 2019 | 80%-100% | 1,670 | 24% | 13.9 | 24% | \$49,284,274 | 23% | 145,988 | 41% | 11.4 | \$337.59 | 95.4 |
| 2019 | 100%-120% | 1,453 | 21% | 12.9 | 22% | \$45,443,874 | 22% | 204,880 | 24% | 1.7 | \$221.81 | 62.8 |
| 2019 | >120% | 1,653 | 24% | 16.7 | 28% | \$58,532,066 | 28% | 343,989 | 40% | 4.8 | \$170.16 | 48.6 |
| 2019 | Total | 6,955 | 100% | 59.3 | 100% | \$210,489,564 | 100% | 866,246 | 100% | 0.8 | \$242.99 | 68.4 |
| 2020 | < 60% | 862 | 11% | 5.6 | 8% | \$20,489,009 | 9% | 62,247 | 7% | 13.8 | \$329.16 | 89.3 |
| 2020 | 60%-80% | 1,526 | 19% | 11.1 | 17% | \$40,068,857 | 17% | 109,142 | 13% | 14.0 | \$367.13 | 101.9 |

| | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner Occupied 1. 4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units /1,000 Owner Occupied 1-4 Unit Households | Total Investment/ Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|--|--|---|--|--|
| 23% 15.0 | 15 | 0. | 23% | \$53,681,079 | 23% | 145,988 | 17% | 12.5 | \$367.71 | 102.5 |
| 20% 13.6 | 13.6 | | 21% | \$48,358,598 | 21% | 204,880 | 24% | 7.7 | \$236.03 | 66.4 |
| 27% 21.0 | 21.0 | | 32% | \$72,907,817 | 31% | 343,989 | 40% | 6.2 | \$211.95 | 61.1 |
| 100% 66.3 | 66.3 | | 100% | \$235,505,360 | 100% | 866,246 | 100% | 9.1 | \$271.87 | 76.5 |
| 9% 25.1 | 25.1 | _ | 8% | \$96,182,706 | 8% | 62,247 | %2 | 62.1 | \$1,545.18 | 403.3 |
| 17% 51.0 | 51.0 | _ | 15% | \$191,698,606 | 15% | 109,142 | 13% | 65.3 | \$1,756.41 | 467.3 |
| 23% 74.5 | 74.5 | _ | 22% | \$285,157,217 | 22% | 145,988 | 17% | 65.4 | \$1,953.29 | 510.3 |
| 22% 73.8 | 73.8 | | 22% | \$285,042,847 | 22% | 204,880 | 24% | 44.2 | \$1,391.27 | 360.3 |
| 29% 107.3 | 107.3 | | 32% | \$409,835,298 | 32% | 343,989 | 40% | 34.7 | \$1,191.42 | 311.8 |
| 100% 331.7 | 331.7 | | 100% | \$1,267,916,674 | 100% | 866,246 | 100% | 47.9 | \$1,463.69 | 382.9 |

Table 93. RSIP ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED 121

| | | # Pro | # Project Units | | | _ | MW | | | Total Investment | nent | |
|--------|--------|--------|-----------------|---------|-------|-------|------------|--------------|-----------------|------------------|---------------|--------------|
| | | Over | 100% or | % at | | Over | 100% or | % at 100% | | | | % at 100% |
| Fiscal | | 100% | Below | 100% or | | 100% | Below | or | | Over 100% | 100% or | ٠ ٥ |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2012 | 288 | 506 | 85 | 28% | 1.9 | 1.4 | 0.5 | 79% | \$9,901,511 | \$7,404,122 | \$2,497,389 | 25% |
| 2013 | 1,109 | 827 | 282 | 25% | 7.9 | 6.1 | 1.8 | 23% | \$35,426,043 | \$27,081,843 | \$8,344,200 | 24% |
| 2014 | 2,382 | 1,535 | 847 | 36% | 17.1 | 11.5 | 5.6 | 33% | \$73,853,653 | \$48,979,524 | \$24,874,129 | 34% |
| 2015 | 6,397 | 3,854 | 2,543 | 40% | 48.7 | 30.8 | 17.9 | 37% | \$214,705,219 | \$135,064,211 | \$79,641,008 | 37% |
| 2016 | 6,804 | 3,456 | 3,348 | 49% | 53.3 | 29.1 | 24.2 | 45% | \$218,107,091 | \$119,963,138 | \$98,143,953 | 45% |
| 2017 | 4,465 | 1,96,1 | 2,504 | 26% | 34.8 | 17.0 | 17.8 | 21% | \$120,797,529 | \$58,392,717 | \$62,404,813 | 25% |
| 2018 | 5,202 | 2,333 | 2,869 | 25% | 42.4 | 50.9 | 21.5 | 51% | \$149,130,705 | \$72,750,236 | \$76,380,469 | 51% |
| 2019 | 6,955 | 3,106 | 3,849 | 25% | 59.3 | 29.6 | 29.7 | %09 | \$210,489,564 | \$103,975,940 | \$106,513,624 | 51% |
| 2020 | 7,921 | 3,709 | 4,212 | 53% | 66.3 | 34.6 | 31.6 | 48% | \$235,505,360 | \$121,266,415 | \$114,238,945 | 49% |
| Total | 41,523 | 20,987 | 20,536 | 49% | 331.7 | 181.1 | 150.6 | 45% | \$1,267,916,674 | \$694,878,145 | \$573,038,529 | 45% |
| | | | | | | | | | | | | |

Distressed Community Penetration

For a breakdown of RSIP project volume and investment by census tracts categorized by Distressed Communities - see Table 94. It should be noted that RSIP is not an income targeted program.

TABLE 94. RSIP ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Fiscal Year | Distres sed | # of Project Units | % Project Distribution | In stalled Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|----------------|--------------------------|---------------------------|--------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|--|---|----------------------------|
| 2012 | Yes | 34 | 12% | 0.2 | 10% | \$980,813 | 10% | 447,962 | 33% | 0.1 | \$2.19 | 0.4 |
| 2012 | N _o | 254 | %88 | 1.7 | %06 | \$8,920,698 | %06 | 912,222 | %19 | 6.0 | \$9.78 | 1.9 |
| 2012 | Total | 288 | 100% | 1.9 | 100% | \$9,901,511 | 100% | 1,360,184 | 100% | 0.2 | \$7.28 | 1.4 |
| 2013 | Yes | 112 | 10% | 0.7 | %6 | \$3,230,720 | %6 | 426,564 | 31% | 0.3 | \$7.57 | 1.6 |
| 2013 | No | 266 | %06 | 7.2 | 91% | \$32,195,323 | 91% | 929,285 | %69 | 1.1 | \$34.65 | 7.7 |

¹²¹ Excludes projects in unknown bands.

CONNECTICUT GREEN BANK

6. PROGRAMS – RESIDENTIAL SOLAR INVESTMENT PROGRAM

| Watts / Total Household | 5.8 | 6.4 | 15.4 | 12.6 | 21.5 | 42.6 | 36.0 | 33.8 | 42.0 | 39.4 | 24.3 | 26.1 | 25.5 | 7.9 | 41.6 | 31.0 | 36.6 | 46.3 | 43.3 | 43.7 | 50.4 | 48.4 | 179.1 | 270.6 | Ţ |
|--|--------------|--------------|--------------|--------------|--------------|----------------|---------------|--------------|---------------|---------------|--------------|--------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---|
| | | | | | 3 | 4 | (7) | (1) | 4 | (4) | ۲۷ | N | N | | 4 | (n) | (0) | 4 | 4 | 4 | п, | 4 | _ | 2 | |
| Investment/ Total Household | \$26.13 | \$28.12 | \$66.12 | \$54.46 | \$96.13 | \$187.28 | \$158.74 | \$138.42 | \$171.81 | \$161.00 | \$84.22 | \$90.82 | \$88.71 | \$27.58 | \$146.45 | \$109.06 | \$135.10 | \$162.29 | \$153.94 | \$159.46 | \$177.36 | \$171.86 | \$689.53 | \$1,032.15 | |
| Project Units / 1,000 Total Households | 0.8 | 1.0 | 2.1 | 1.8 | 3.2 | 5.4 | 4.7 | 4.7 | 5.2 | 5.0 | 3.4 | 3.2 | 3.3 | 1.1 | 5.0 | 3.8 | 4.9 | 5.2 | 5.1 | 6.1 | 5.6 | 5.8 | 25.1 | 32.7 | |
| % Total Household Distribution | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 32% | %89 | 100% | 32% | %89 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 31% | %69 | |
| Total Households | 1,355,849 | 416,415 | 939,791 | 1,356,206 | 423,559 | 929,024 | 1,352,583 | 438,710 | 916,003 | 1,354,713 | 435,595 | 926,160 | 1,361,755 | 430,098 | 937,276 | 1,367,374 | 420,071 | 947,303 | 1,367,374 | 420,071 | 947,303 | 1,367,374 | 420,071 | 947,303 | • |
| % Investment Distribution | 100% | 16% | 84% | 100% | 19% | 81% | 100% | 28% | 72% | 100% | 30% | %02 | 100% | %8 | 95% | 100% | 27% | 73% | 100% | 29% | 71% | 100% | 23% | %22 | |
| Total Investment | \$35,426,043 | \$11,711,383 | \$62,142,270 | \$73,853,653 | \$40,716,394 | \$173,988,825 | \$214,705,219 | \$60,726,516 | \$157,380,574 | \$218,107,091 | \$36,684,453 | \$84,113,076 | \$120,797,529 | \$11,863,257 | \$137,267,448 | \$149,130,705 | \$56,752,785 | \$153,736,779 | \$210,489,564 | \$66,985,281 | \$168,012,162 | \$234,997,443 | \$289,651,601 | \$977,757,155 | |
| % MW Distribution | 100% | 16% | 84% | 100% | 19% | 81% | 100% | 28% | 72% | 100% | 31% | %69 | 100% | %8 | 95% | 100% | 26% | 74% | 100% | 28% | 72% | 100% | 23% | %22 | |
| Installed Capacity (MW) | 6.7 | 2.7 | 14.5 | 17.1 | 9.1 | 39.6 | 48.7 | 14.8 | 38.5 | 53.3 | 10.6 | 24.2 | 34.8 | 3.4 | 39.0 | 42.4 | 15.4 | 43.9 | 59.3 | 18.4 | 47.8 | 66.1 | 75.2 | 256.3 | |
| % Project Distribution | 100% | 17% | 83% | 100% | 21% | 79% | 100% | 30% | 70% | 100% | 34% | %99 | 100% | %6 | 91% | 100% | 29% | 71% | 100% | 33% | %19 | 100% | 25% | 75% | |
| # of Project Units | 1,109 | 400 | 1,982 | 2,382 | 1,340 | 5,057 | 6,397 | 2,073 | 4,731 | 6,804 | 1,502 | 2,963 | 4,465 | 485 | 4,717 | 5,202 | 2,041 | 4,914 | 6,955 | 2,569 | 5,333 | 7,902 | 10,556 | 30,948 | |
| Distres sed | Total | Yes | °N° | Total | Yes | N _o | Total | Yes | °Z | Total | Yes | No | Total | Yes | °N° | Total | Yes | No | Total | Yes | No | Total | Yes | °Z | |
| Fiscal Year | 2013 | 2014 | 2014 | 2014 | 2015 | 2015 | 2015 | 2016 | 2016 | 2016 | 2017 | 2017 | 2017 | 2018 | 2018 | 2018 | 2019 | 2019 | 2019 | 2020 | 2020 | 2020 | Total | Total | |

Societal Impacts

RSIP is a driver of job creation and cleaner air in the state of Connecticut. Over the course of its existence, the program has supported the creation of 14,711 job years and avoided the lifetime emission of tons of 5,264,274 carbon dioxide, 5,484,262 pounds of nitrous oxide, 4,846,392 pounds of sulfur oxide, and 454,447 pounds of particulate matter as illustrated by Table 95 and Table 97. The RSIP has generated more than \$40.1 million in tax revenue for the state since inception as demonstrated in Table 96. The value of the lifetime public health impacts of the RSIP is estimated to be between \$166.7 and \$376.5 million as seen in Table 98.

TABLE 95. RSIP JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 58 | 93 | 151 |
| 2013 | 209 | 333 | 542 |
| 2014 | 435 | 694 | 1,130 |
| 2015 | 1,267 | 2,018 | 3,285 |
| 2016 | 1,288 | 2,050 | 3,337 |
| 2017 | 472 | 615 | 1,087 |
| 2018 | 582 | 759 | 1,341 |
| 2019 | 821 | 1,072 | 1,893 |
| 2020 | 843 | 1,102 | 1,946 |
| Total | 5,975 | 8,736 | 14,711 |

TABLE 96. RSIP TAX REVENUES GENERATED BY FY CLOSED

| | 58 | 93 | 151 | |
|--|--|---|--|---|
| 2013 | 209 | | 542 | |
| 2014 | 435 | | 1,130 | |
| 2015 | 1,267 | | 3,285 | |
| 2016 | 1,288 | | 3,337 | |
| 2017 | 472 | | 1,087 | |
| 2018 | 582 | | ,341 | |
| 2019 | 821 | | 1,893 | |
| 2020 | 843 | | 1,946 | |
| Total | 5,975 | 8,736 1 | 4,711 | |
| , | | | | |
| Table 96. R | SIP TAX REVE | NUES GENERA | TED BY FY CLOSE | D |
| | Individual | Corporat | 9 | |
| | Income Tax | | Sales Tax | Total Tax |
| Fiscal | Revenue | Revenue | | Revenue |
| Year | Generated | │ Generate | d (Canarated | Generated |
| 2012 | | | | |
| | \$267,742 | \$79,970 | \$0 | \$347,712 |
| 2013 | \$267,742 \$957,938 | | \$0 | |
| | | \$79,970 \$286,122 | \$0 9 \$0 | \$347,712 |
| 2013 | \$957,938 | \$79,970 \$286,122 \$596,486 | \$0 2 \$0 5 \$0 | \$347,712 \$1,244,060 |
| 2013 2014 | \$957,938 \$1,997,039 | \$79,970 \$286,122 \$596,486 \$1,734,08 | \$0 2 \$0 6 \$0 9 \$0 | \$347,712 \$1,244,060 \$2,593,526 |
| 2013 2014 2015 | \$957,938 \$1,997,039 \$5,805,738 | \$79,970 \$286,122 \$596,486 \$1,734,08 \$1,761,56 | \$0 \$0 \$0 \$0 \$0 9 \$0 3 \$0 | \$347,712 \$1,244,060 \$2,593,526 \$7,539,826 |
| 2013 2014 2015 2016 | \$957,938 \$1,997,039 \$5,805,738 \$5,897,726 | \$79,970 \$286,122 \$596,486 \$\$1,734,08 \$\$1,761,56 \$\$975,633 | \$0 9 \$0 3 \$0 9 \$0 | \$347,712 \$1,244,060 \$2,593,526 \$7,539,826 \$7,659,289 |
| 2013 2014 2015 2016 2017 | \$957,938 \$1,997,039 \$5,805,738 \$5,897,726 \$2,522,036 | \$79,970 \$286,122 \$596,486 \$1,734,08 \$1,761,56 \$975,633 \$1,204,46 | \$0 \$0 \$0 \$0 9 \$0 3 \$0 \$0 \$0 9 \$0 | \$347,712 \$1,244,060 \$2,593,526 \$7,539,826 \$7,659,289 \$3,497,669 |
| 2013 2014 2015 2016 2017 2018 | \$957,938 \$1,997,039 \$5,805,738 \$5,897,726 \$2,522,036 \$3,113,582 | \$79,970 \$286,122 \$596,486 \$\$1,734,08 \$\$1,761,56 \$\$975,633 \$\$1,204,46 \$\$1,700,03 | \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$3 \$0 \$3 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | \$347,712 \$1,244,060 \$2,593,526 \$7,539,826 \$7,659,289 \$3,497,669 \$4,318,051 |

TABLE 97. RSIP AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emission | ns Avoided (tons) | | nissions (pounds) | | nissions (pounds) | PM 2.5 (| pounds) |
|----------------|--------------|-------------------|--------|----------------------|--------|----------------------|----------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 1,242 | 31,043 | 1,638 | 40,958 | 2,117 | 52,930 | 111 | 2,772 |
| 2013 | 5,108 | 127,693 | 7,477 | 186,921 | 9,478 | 236,961 | 451 | 11,273 |

| | CO2 Emission | ns Avoided (tons) | | missions (pounds) | | nissions (pounds) | PM 2.5 (| pounds) |
|----------------|--------------|-------------------|---------|------------------------|---------|----------------------|----------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2014 | 10,960 | 273,991 | 14,468 | 361,708 | 16,082 | 402,049 | 978 | 24,446 |
| 2015 | 31,779 | 794,485 | 37,798 | 944,959 | 36,715 | 917,887 | 2,780 | 69,488 |
| 2016 | 34,319 | 857,974 | 36,755 | 918,871 | 29,417 | 735,422 | 3,009 | 75,214 |
| 2017 | 21,601 | 540,035 | 19,648 | 491,207 | 13,405 | 335,130 | 1,863 | 46,571 |
| 2018 | 26,553 | 663,819 | 25,182 | 629,552 | 20,863 | 521,579 | 2,262 | 56,562 |
| 2019 | 37,295 | 932,375 | 36,065 | 901,618 | 31,048 | 776,193 | 3,174 | 79,359 |
| 2020 | 41,714 | 1,042,858 | 40,339 | 1,008,467 | 34,730 | 868,240 | 3,550 | 88,762 |
| Total | 210,571 | 5,264,274 | 219,370 | 5,484,262 | 193,856 | 4,846,392 | 18,178 | 454, 447 |

TABLE 98. RSIP PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | An | nual | Life | time |
|--------|-------------|--------------|---------------|---------------|
| Year | Low | High | Low | High |
| 2012 | \$42,865 | \$96,778 | \$1,071,624 | \$2,419,440 |
| 2013 | \$174,308 | \$393,541 | \$4,357,706 | \$9,838,532 |
| 2014 | \$378,340 | \$854,191 | \$9,458,507 | \$21,354,772 |
| 2015 | \$1,076,979 | \$2,431,529 | \$26,924,464 | \$60,788,223 |
| 2016 | \$1,178,357 | \$2,660,413 | \$29,458,913 | \$66,510,330 |
| 2017 | \$767,833 | \$1,733,560 | \$19,195,818 | \$43,339,011 |
| 2018 | \$935,944 | \$2,113,110 | \$23,398,588 | \$52,827,739 |
| 2019 | \$1,301,510 | \$2,938,461 | \$32,537,749 | \$73,461,516 |
| 2020 | \$814,693 | \$1,839,358 | \$20,367,317 | \$45,983,943 |
| Total | \$6,670,827 | \$15,060,940 | \$166,770,686 | \$376,523,507 |

Marketing

Project volume was strong in FY20 overall, but in particular through Q3 FY20 (until the market was impacted by the COVID pandemic). Despite significant impacts to the market starting in March 2020 and into Q4 FY20, the following factors contributed to high overall project volume in FY20 for the solar PV market.

- RSIP incentive levels were reduced with the approval of Step 15 by the Board of Directors in July 2019, but not steeply enough to impact project volume. Step 15 levels represented 10%, 15%, and 10% reductions for EPBB, PBI, and LMI PBI projects respectively, with no further reductions in FY20, thereby providing market continuity.
- The anticipated end of net metering, which had been scheduled to take place at the end of RSIP, but which was delayed until December 31, 2021 by PA 19-35.
- The scheduled step-down in the Federal Investment Tax Credit (ITC) from 30% to 26% starting in 2020, which will be followed by a step down to 22% in 2021, and a final step down to 0% for homeowner-owned projects and 10% for third-party owned projects in 2022.
- Another mild winter allowing for higher industry activity.
- Continued growth in the strength and number of local and national solar PV companies in Connecticut through Q3 FY20.

- Despite significant COVID impacts, the residential solar industry began adapting its sales and installation practices to allow for continued operation during the pandemic, albeit at a reduced level compared to usual spring and summer volume.
- Growth in the residential battery storage industry in New England and nationwide, helping to create new buzz for clean energy technology deployment.

Nearly 80% of FY20 RSIP projects are third party owned (TPO), led by Sunnova with approximately 53% of RSIP market share, followed by Sunrun (16%), PosiGen (12%), Vivint (10%), SunPower (7%), and IGS Solar (2%). The highest volume Installers of homeowner-owned projects collectively deployed approximately 20% of RSIP volume in FY20, with the top 15 deploying 82% of homeowner-owned projects, including SunPower, Vivint, CES Danbury (formerly Ross Solar), Earthlight, Trinity Solar, EcoSmart, Momentum Solar, Sunlight Solar, C-TEC Solar, SolarCity, Sunrun, Venture Solar, Palmetto Solar, Aegis, and Green Power Energy. Trinity Solar was RSIP's highest volume participant in FY20, having installed nearly 43% of RSIP projects in FY20, of which nearly 98% used third party financing and 2.5% were homeowner owned. The RSIP continues to be successful in reaching low to moderate income households. Adoption has largely been driven by the Green Bank's Solar for All partnership with PosiGen and complemented by efforts supported by a U.S. Department of Energy grant, "State Strategies for Solar Adoption in Low-and-Moderate Income Communities."

RSIP is estimated to reach 350 MW possibly as early as October of 2020, after which time only net metering (and the federal ITC) would be available to support the solar PV market through December 31, 2021, unless an RSIP extension is considered and approved by the CT General Assembly, as proposed by staff and approved by the Green Bank Board of Directors at its April 24, 2020 Board meeting¹²². Beginning in 2022, a production based (per kWh) tariff compensation is anticipated to be offered to solar PV customers, based on the requirements stipulated by Section 7 in PA 18-50, amended by PA 19-35, and as developed and determined by PURA and stakeholders through continued docket processes.

TABLE 99. RSIP Volume, CAPACITY AND COST DATA BY FY CLOSED AND SOLARIZE PARTICIPATION¹²³

| | CGB | | Installed | Green Bank | | Average | Average Installed | | |
|--------|----------|----------|-----------|-------------|-------------|-----------------------|-----------------------|-----------|-------------|
| Fiscal | Solarize | _ # | Capacity | Incentive | Total | Incentive | Cost | Incentive | Net Cost to |
| Year | Type | Projects | (kW) | Amount | Investment | (\$/W) ¹²⁴ | (\$/W) ¹²⁵ | % of Cost | Customer |
| 2012 | No | 288 | 1,940.2 | \$3,401,642 | \$9,901,511 | \$1.75 | \$5.13 | 34% | \$6,499,869 |

¹²² https://ctgreenbank.com/wp-content/uploads/2020/05/board-of-directors-of-the-connecticut-green-bank 042420 redacted.pdf

projects assigned to years later than 2015. Projects are attributed to years based on the year their application was approved. Solarize projects assigned to years later than 2017 are the result of solarize efforts supported by the Green Bank in 2015 or before. Privately-supported Solarize is associated with years 2016-2019. Note that the difference in average installed costs across RSIP for Solarize vs non-Solarize projects also reflects a larger prevalence of homeowner-owned (i.e., EPBB) projects participating in Solarize vs third-party owned (i.e., PBI) projects. Because the average installed cost for EPBB projects is higher than for PBI projects, some years show a higher Solarize than non-Solarize price at least in part because more of the Solarize projects are EPBB projects. For EPBB projects only, the average installed cost across all years of RSIP is \$3.86/W for Solarize projects vs \$4.02/W for non-Solarize projects.

¹²⁴ Average Incentive, Average Installed Cost, and Incentive % of Cost represent the averages by fiscal year and are not differentiated for Solarize versus non-Solarize.

¹²⁵ Average Installed Cost per Watt figures include reported installed costs without including those projects where financing costs for some third-party ownership installers are included as part of the installed cost and projects that include battery storage costs. Incentive % of Cost is calculated based on Average Installed Cost.

| | COD | | I4-III | C DI- | | | Average | | |
|----------------|-----------------|---------------|------------------|-------------------------|---------------------|-----------------------|-------------------------------|-----------|-----------------|
| Fiscal | CGB Solarize | # | Installed | Green Bank Incentive | Total | Average Incentive | Installed | Incentive | Net Cost to |
| riscai Year | Type | # Projects | Capacity (kW) | Amount | Investment | (\$/W) ¹²⁴ | Cost (\$/W) ¹²⁵ | % of Cost | Customer |
| 2012 Total | 1300 | 288 | 1,940.2 | \$3,401,642 | \$9,901,511 | \$1.75 | \$5.13 | 34% | \$6,499,869 |
| 2013 | No | 785 | 5,465.7 | \$8,398,948 | \$26,127,846 | \$1.54 | \$4.64 | 32% | \$17,728,898 |
| 2010 | Yes | 324 | 2,424.1 | \$3,516,508 | \$9,298,197 | \$1.45 | \$3.84 | 38% | \$5,781,689 |
| 2013 Total | 103 | 1,109 | 7,889.8 | \$11,915,456 | \$35,426,043 | \$1.51 | \$4.32 | 34% | \$23,510,587 |
| 2014 | No | 1,674 | 12,102.7 | \$14,257,270 | \$54,757,574 | \$1.18 | \$4.27 | 26% | \$40,500,304 |
| 2011 | Yes | 708 | 5,022.4 | \$5,791,844 | \$19,096,079 | \$1.15 | \$3.80 | 30% | \$13,304,235 |
| 2014 Total | | 2,382 | 17,125.1 | \$20,049,114 | \$73,853,653 | \$1.17 | \$4.07 | 27% | \$53,804,539 |
| 2015 | No | 5,497 | 41,230.6 | \$27,605,344 | \$185,448,437 | \$0.67 | \$3.93 | 15% | \$157,843,093 |
| | Yes | 900 | 7,515.3 | \$5,586,645 | \$29,256,782 | \$0.74 | \$3.89 | 19% | \$23,670,137 |
| 2015 Total | | 6,397 | 48,745.9 | \$33,191,989 | \$214,705,219 | \$0.68 | \$3.92 | 15% | \$181,513,230 |
| 2016 | No | 6,709 | 52,505.7 | \$18,491,300 | \$214,905,407 | \$0.35 | \$3.40 | 9% | \$196,414,107 |
| | Yes | 95 | 834.4 | \$351,514 | \$3,201,684 | \$0.42 | \$3.84 | 11% | \$2,850,170 |
| 2016 Total | | 6,804 | 53,340.1 | \$18,842,814 | \$218,107,091 | \$0.35 | \$3.41 | 9% | \$199,264,277 |
| 2017 | No | 4,422 | 34,391.7 | \$11,450,640 | \$119,511,428 | \$0.33 | \$3.33 | 10% | \$108,060,788 |
| | Yes | 43 | 368.2 | \$149,396 | \$1,286,101 | \$0.41 | \$3.49 | 12% | \$1,136,705 |
| 2017 Total | | 4,465 | 34,759.8 | \$11,600,036 | \$120,797,529 | \$0.33 | \$3.33 | 10% | \$109,197,493 |
| 2018 | No | 5,195 | 42,321.7 | \$12,720,045 | \$148,951,805 | \$0.30 | \$3.41 | 9% | \$136,231,760 |
| | Yes | 7 | 50.6 | \$19,773 | \$178,900 | \$0.39 | \$3.53 | 11% | \$159,127 |
| 2018 Total | | 5,202 | 42,372.3 | \$12,739,818 | \$149,130,705 | \$0.30 | \$3.41 | 9% | \$136,390,887 |
| 2019 | No | 6,955 | 59,250.5 | \$16,089,664 | \$210,489,564 | \$0.27 | \$3.45 | 8% | \$194,399,900 |
| 2019 Total | | 6,955 | 59,250.5 | \$16,089,664 | \$210,489,564 | \$0.27 | \$3.45 | 8% | \$194,399,900 |
| 2020 | No | 7,921 | 66,271.3 | \$16,849,620 | \$235,505,360 | \$0.25 | \$3.48 | 7% | \$218,655,740 |
| 2020 Total | | 7,921 | 66,271.3 | \$16,849,620 | \$235,505,360 | \$0.25 | \$3.48 | 7% | \$218,655,740 |
| Total | | 41,523 | 331,695. 2 | \$144,680,151 | \$1,267,916,67 4 | \$0.44 | \$3.54 | 11% | \$1,123,236,523 |

SHREC Program

Legislation enacted by the General Assembly enables the Connecticut Green Bank to recover the costs of the RSIP by aggregating and monetizing the Solar Home Renewable Energy Credits (SHRECs) earned for solar energy generated by systems whose owners received RSIP incentives. ¹²⁶ The SHRECs are sold through long-term contracts to the state's two investor-owned utilities, as mandated by the law. Through the SHREC Master Purchase Agreement, the Green Bank has thus far sold its Tranche 1, Tranche 2, Tranche 3 and Tranche 4 SHRECs to the utilities – for a total of just over 207 MW of residential solar PV projects supported through the RSIP. Tranches 1 and 2, totaling over 107 MW, were included in the Green Bank's first securitization of SHREC revenues, closing in March 2019, for \$38.6 million. Tranche 3, which was just over 39 MW, was included in the Green Bank's second securitization of SHREC revenues, in the form of Green Liberty Bonds, which sold out on July 15, 2020 for over \$16 million.

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¹²⁶ RSIP projects with an incentive approved on or after January 1, 2015 can provide SHRECs. Approximately 56 MW of RSIP projects approved prior to 2015 can provide non-SHREC RECs.

Market Transformation

The Connecticut Green Bank contracted with Cadmus Group, Inc., to conduct a cost-effectiveness analysis¹²⁷ of its Residential Solar Investment Program (RSIP), completed in March 2016.¹²⁸ The findings of the study were: (1) RSIP is cost-effective from the perspective of program participants, the Connecticut Green Bank (as program administrator), from a total resource perspective, and for society as a whole. (2) RSIP has increasingly made efficient use of program funds by reducing incentives while supporting market growth through financing, marketing, outreach and education. (3) RSIP benefits sufficiently outweigh costs to allow for bundling of residential solar PV with emerging technologies such as energy storage, while maintaining cost-effectiveness. The study included data from RSIP steps 1 through 7, for which cost-effectiveness was found to increase with progressive steps as incentives were reduced. Cadmus noted that incentives represented the large majority of program costs. Therefore, the general pattern of increasing cost-effectiveness would be expected to continue as incentives were reduced further.

Residential battery storage paired with solar PV is an emerging market in Connecticut with an estimated 226 battery storage systems came through RSIP, associated with solar PV projects approved for incentives in FY20 (26% in FY20 and the majority in the last three fiscal years). The solar PV was incentivized through RSIP, but no incentive was provided for the battery storage. The projects were purchased by customers primarily for the purpose of backup power though it is possible that some customers are participating in a pilot demand response program, Connected Solutions, 129 that has been implemented by Eversource, modeled on their Massachusetts program.

For the past two fiscal years, the Green Bank has been seeking funding to administer a battery storage incentive program. In FY19, the Green Bank contracted with Navigant Consulting, Inc., to conduct cost-effectiveness analysis for Green Bank's application submission to PURA's Electric Efficiency Partners Program (EEPP) in December 2018, proposing an incentive program for residential battery storage installed with solar PV. The program was originally designed so that a customer would be required to charge the battery with solar PV during the day and discharge the battery to meet on-site load during ISO New England summer peak hours using a "Set it and Forget it" strategy. The Navigant analysis showed that battery storage utilized in this way provides peak reduction benefits to the grid as well as being available to the customer for backup power during outage events. The benefit/cost ratios calculated for battery storage for the overall program are over 2:1 (UCT of 2.75 at 5.5% discount rate, UCT of 3.38 at 3% discount rate) assuming a declining incentive block structure and total program capacity of 30 MW deployed over 5 years. ¹³⁰ While the application was not approved, as decision

¹²⁷ The cost-effectiveness tests include the Utility Cost Test/Program Administrator Cost Test (UCT/PACT), Participant Cost Test (PCT), Societal Cost Test (SCT), Total Resource Cost Test (TRC), and Ratepayer Impact Measure (RIM). https://www.nationalenergyscreeningproject.org/national-standard-practice-manual

¹²⁸ https://ctgreenbank.com/about-us/studies-and-reports/

¹²⁹ https://www.eversource.com/content/ct-c/residential/save-money-energy/manage-energy-costs-usage/demand-response/battery-storage-demand-response

¹³⁰ The benefit/cost ratios represent the incremental benefits and costs of battery storage installed with solar PV.

makers wanted more time to consider battery storage policy more broadly, the results show that residential battery storage provides peak demand reduction value to the grid, in addition to being attractive to customers with resiliency concerns.

Table 100 shows the anticipated benefit/cost ratios of deploying solar PV plus battery storage, including the benefits and costs for both technologies. Table 100 assumes an incentive for battery storage similar to what had been proposed for the EEPP, an anticipated RSIP Step 15131 incentive for solar PV about 13% lower on average across incentive types as compared to the RSIP Step 14, 4 MW of battery storage deployment in one year, and shows scenarios for "Set it and Forget it" vs "Utility Dispatch" 132, as well as scenarios assuming the same C&LM benefit categories as in the EEPP application versus benefits that exclude regional benefits.133 Take-aways from Table 100 include: (1) The UCT for solar PV is higher than for battery storage so it makes sense to combine battery storage with solar PV from a cost-effectiveness perspective. Even with a "set it and forget it" strategy and exclusion of regional benefits, the UCT ratio for solar PV plus storage is 3.16. (2) In the scenario in which regional benefits are not excluded, the RIM for battery storage is higher than for solar PV and reflects the ability of battery storage to socialize benefits to non-participants. (3) Utility dispatch provides higher benefit/cost RES ON ratios than a "set it and forget it" strategy.

TABLE 100. BENEFIT/COST RATIOS FOR SOLAR PV PLUS BATTERY STORAGE

| | | Solar PV | | Ва | ttery Stora | age | Solar P | / + Battery | Storage |
|---|-------|----------|------|------|-------------|------|---------|-------------|---------|
| | UCT | PCT | RIM | UCT | PCT | RIM | UCT | PCT | RIM |
| Set it and Forget it | | | | | | 162 | | | |
| C&LM benefits | 13.16 | 4.91 | 0.82 | 1.83 | 0.81 | 1.00 | 6.04 | 2.11 | 0.88 |
| C&LM benefits less PTF, ROP DRIPE | 7.48 | 4.91 | 0.47 | 0.60 | 0.81 | 0.33 | 3.16 | 2.11 | 0.46 |
| Utility Dispatch | | | | | | | | | |
| C&LM benefits | n/a | n/a | n/a | 3.20 | 0.81 | 1.74 | 6.90 | 2.11 | 1.01 |
| C&LM benefits less PTF, ROP DRIPE | n/a | n/a | n/a | 1.07 | 0.81 | 0.58 | 3.45 | 2.11 | 0.50 |

In FY20 the Green Bank again partnered with Guidehouse to prepare submission of a battery storage incentive program proposal¹³⁴ into PURA's Equitable Modern Grid docket 17-12-03RE03. The program design proposed to deploy 50 MW of battery storage paired with new or existing solar PV by 2025, reaching an estimated 10,000 households. The program design includes: (1) a declining upfront incentive block structure administered by the Green Bank, in exchange for passive dispatch to meet on-

¹³¹ Anticipated to begin January 15, 2020. The RSIP Step 15 incentive is assumed to be 13% lower than the Step 14 incentive, calculated using a weighted average of the incentive reductions of 10% for EPBB, 15% for PBI and 10% for LMI PBI based on estimated 20%, 75% and 5% deployment shares, respectively.

¹³² The "Utility Dispatch" scenario assumes that the utility will anticipate peak hours or events (e.g., one day ahead) and will dispatch the battery to meet on-site load. For example, this scenario could apply if a customer agrees to participate in a utility demand response program for battery storage in exchange for a performance-based incentive.

¹³³ The regional benefits include Pooled Transmission Facilities (PTF) and Rest of Pool DRIPE.

¹³⁴ https://ctgreenbank.com/strategy-impact/planning/ (submitted July 31, 2020)

site load during specified hours (e.g., ISO-NE summer peak hours), and (2) a performance-based incentive administered by the utility companies modelled on the Eversource Connected Solutions demand response program, whereby customers allow their batteries to dispatch to meet on-site load and export to the grid during scheduled peak events. Program-wide, the design delivers benefit to cost ratios greater than one for all cost-effectiveness tests, as shown in Table 101.

TABLE 101. BENEFIT/COST RATIOS FOR BATTERY STORAGE AS CALCULATED FOR GREEN BANK "SOLARIZE STORAGE" PROPOSAL IN DOCKET 17-12-03RE03¹³⁵

| Incentive Step | Capacity Block (MW) | PACT | PCT | SCT | TRC | RIM |
|-------------------|---------------------------|------|------|------|------|------|
| 1 | 2.0 | 1.23 | 1.13 | 1.22 | 1.22 | 1.07 |
| 2 | 3.5 | 1.68 | 1.00 | 1.66 | 1.67 | 1.50 |
| 3 | 6.5 | 2.03 | 0.99 | 2.00 | 2.01 | 1.83 |
| 4 | 13.0 | 2.44 | 0.99 | 2.39 | 2.40 | 2.24 |
| 5 | 25.0 | 2.75 | 0.98 | 2.66 | 2.67 | 2.55 |
| Total | 50.0 | 2.37 | 1.00 | 2.32 | 2.33 | 2.15 |

In summary, cost-effectiveness analyses show that deploying solar PV or solar PV plus battery storage provides benefits to the grid. Battery storage also provides resiliency benefits to customers and supports higher levels of solar PV deployment by better integrating solar PV with the grid.

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¹³⁵ The UCT ratios were calculated by installed energy storage capacity block, proposed with incentives that decreased over each block (similar to the RSIP structure), modeled using discount rates of 5.5% and 3.0%, the latter based on the CT 2019-2021 C&LM Plan discount rate scheduled to go into effect March 1, 2019. The UCT ratios represent the incremental benefits and costs of battery storage installed with solar PV.

Case 4 - Smart-E Loan

Description

The Smart-E residential loan program is a financing program developed in partnership with Energize CT and local lenders that uses a credit enhancement (i.e., \$1,741,705 loan loss reserve). ¹³⁶ to stimulate the market for residential energy efficiency, solar, storage, and health and safety loans in Connecticut. Through the product, the Connecticut Green Bank lowers the cost of capital for Connecticut residential customers seeking to install solar PV, high efficiency heating and cooling equipment, insulation or other home energy upgrades and reduces the loan performance risks to lenders. The \$1.7 million loan loss reserve is used to encourage lenders to offer below market interest rates and longer terms for unsecured loans, mitigates their losses, and encourages customers to undertake measures that would prove uneconomical at higher interest rates. In Fiscal year 2019, Inclusive Prosperity Capital (IPC) began managing the day to day operations of the Smart-E Loan program. With support from the Hewlett Foundation, and in partnership with Michigan Saves, IPC developed a new online platform for contractors and lenders. In doing so, IPC is soliciting other Green Banks and similar organizations around the country, to use the new platform to bring overall costs down for all programs.

The Smart-E Loan was designed to make it easy and affordable for homeowners to make energy efficiency and clean energy improvements to their homes with no out-of-pocket cash and at interest rates low enough and repayment terms long enough to make the improvements "cash flow positive." At the same time, the Green Bank was intentional in opening conversations with local lenders to demonstrate the value of loans that would help their existing customers with burdensome energy costs and serve as an effective marketing tool to attract new relationships. In return for a "second loss" reserve which would be available beyond an agreed "normal" level of loan losses, lenders agreed to lengthen their terms and lower their rates. The end result is a successful loan product that has enabled thousands of homeowners throughout the state to lower energy costs and make their homes more comfortable in the summer heat or the depths of winter.

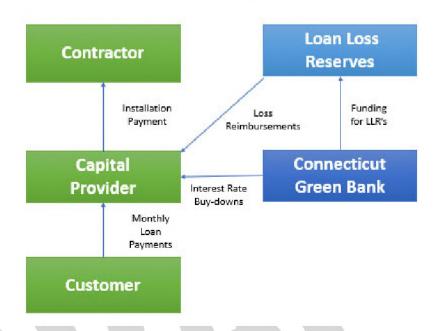
The financial structure of the Smart-E Loan product includes origination, ¹³⁷ servicing, ¹³⁸ and financing features in combination with the support of the Connecticut Green Bank.

During FY2017, the Green Bank, in an effort to optimize its resources, now holds the Loan Loss Reserve on its balance sheet. The total calculated loan loss reserve as of 6/30/20 is \$3,568,563, of which the Green Bank holds \$1.74M on its balance sheet.

¹³⁷ Network of participating community banks and credit unions with local contractors.

 $^{^{\}mbox{\scriptsize 138}}$ Network of participating community banks and credit unions.

FIGURE 9. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR THE SMART-E LOAN



Key Performance Indicators

The Key Performance Indicators for Smart-E closed activity are reflected in Table 102 through Table 105. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.

TABLE 102. SMART-E LOAN PROJECT TYPES AND INVESTMENT BY FY CLOSED

| | | | | | # | 10, | | Green Bank | | |
|--------|-------|-----|------|------|---------|--------------|--------------|---------------|--------------|---------|
| Fiscal | | | RE/E | Othe | Project | Amount | Total | Investment | Private | Leverag |
| Year | EE | RE | E | (ra) | s | Financed | Investment | 139 | Investment | e Ratio |
| 2012 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 | 0 |
| 2013 | 1 | 2 | 0 | 0 | 3 | \$55,400 | \$71,924 | \$1,584 | \$70,340 | 45.4 |
| 2014 | 94 | 39 | 4 | 6 | 143 | \$1,781,207 | \$2,486,507 | \$45,524 | \$2,440,983 | 54.6 |
| 2015 | 121 | 79 | 69 | 9 | 278 | \$5,303,959 | \$7,663,425 | \$436,166 | \$7,227,258 | 17.6 |
| 2016 | 102 | 52 | 65 | 2 | 221 | \$4,508,381 | \$6,145,939 | \$360,765 | \$5,785,174 | 17.0 |
| 2017 | 368 | 68 | 79 | 7 | 522 | \$8,611,135 | \$10,748,716 | \$1,053,942 | \$9,694,774 | 10.2 |
| 2018 | 1,330 | 258 | 146 | 15 | 1,749 | \$27,432,920 | \$34,175,021 | \$4,243,505 | \$29,931,516 | 8.1 |
| 2019 | 720 | 98 | 8 | 6 | 832 | \$10,737,249 | \$11,336,982 | \$0 | \$11,336,982 | 100 |
| 2020 | 613 | 102 | 7 | 15 | 737 | \$10,007,846 | \$11,544,201 | \$0 | \$11,544,201 | 100 |
| Total | 3,349 | 698 | 378 | 60 | 4, 485 | \$68,438,096 | \$84,172,715 | \$6,141,486 | \$78,031,228 | 13.7 |

¹³⁹ Includes incentives and interest rate buydowns. It does not include the loan loss reserves for Smart-E of \$1,741,705

TABLE 103. SMART-E LOAN PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) | Annual Cost Savings | Lifetime Cost Savings |
|----------------|-------------------------------|---|---|--|--|------------------------|--------------------------|
| 2012 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2013 | 16.8 | 23,077 | 557 | 68 | 1,633 | \$2,748 | \$66,955 |
| 2014 | 336.4 | 789,994 | 17,873 | 2,504 | 56,188 | \$86,169 | \$1,975,393 |
| 2015 | 1,312.6 | 2,393,743 | 56,898 | 7,050 | 166,210 | \$263,227 | \$6,236,278 |
| 2016 | 955.5 | 2,004,902 | 47,518 | 6,012 | 141,419 | \$227,787 | \$5,311,162 |
| 2017 | 1,290.4 | 3,852,350 | 88,263 | 11,941 | 271,056 | \$394,660 | \$8,933,545 |
| 2018 | 3,876.0 | 11,349,900 | 255,621 | 34,471 | 765,768 | \$1,107,697 | \$24,798,741 |
| 2019 | 908.5 | 3,707,959 | 80,540 | 11,704 | 251,100 | \$374,188 | \$8,037,511 |
| 2020 | 961.0 | 8,320,780 | 178,628 | 27,697 | 592,453 | \$727,879 | \$15,520,077 |
| Total | 9,657.1 | 32,442,704 | 725,898 | 101, 447 | 2,245,827 | \$3,184,354 | \$70,879,662 |

TABLE 104. SMART-E LOAN PROJECT AVERAGES BY FY CLOSED

| | | | Average | Average | Average Annual | Average Finance | 6 | O_{L_2} | |
|--------|------------|----------|-----------|----------|-------------------|--------------------|---------|-----------|---------|
| | Average | Average | Installed | Number | Saved / | Term At | Average | | Average |
| Fiscal | Total | Amount | Capacity | of | Produced | Origination | Finance | Average | FICO |
| Year | Investment | Financed | (kW) | Measures | (MMBtu) | (months) | Rate | DTI | Score |
| 2012 | \$0 | \$0 | 0.0 | 0 | 0 | 0 | 0.00 | 0 | 0 |
| 2013 | \$23,975 | \$18,467 | 5.6 | 1 | 23 | 100 | 5.33 | 51 | 748 |
| 2014 | \$17,388 | \$12,456 | 2.5 | 1 | 18 | 90 | 5.02 | 32 | 751 |
| 2015 | \$27,566 | \$19,079 | 4.9 | 2 | 25 | 100 | 4.10 | 31 | 757 |
| 2016 | \$27,810 | \$20,400 | 4.3 | 2 | 27 | 100 | 4.02 | 32 | 756 |
| 2017 | \$20,591 | \$16,496 | 2.5 | 2 | 23 | 102 | 2.70 | 20 | 749 |
| 2018 | \$19,540 | \$15,685 | 2.2 | 2 | 20 | 102 | 1.96 | 16 | 751 |
| 2019 | \$13,626 | \$12,905 | 1.1 | 2 | 14 | 89 | 4.58 | 15 | 734 |
| 2020 | \$15,664 | \$13,579 | 1.3 | 1 | 38 | 87 | 4.57 | 15 | 737 |
| Total | \$18,768 | \$15,259 | 2.2 | 2 | 23 | 97 | 3.30 | 18 | 746 |

TABLE 105. SMART-E LOAN PROJECT APPLICATION YIELD 140 BY FY RECEIVED

| | Applications | Applications | Applications | Applications | Applications | Approved | Denied |
|-------------|--------------|--------------|--------------|--------------|--------------|----------|--------|
| Fiscal Year | Received | in Review | Approved | Withdrawn | Denied | Rate | Rate |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0% | 0% |
| 2013 | 22 | 0 | 16 | 1 | 5 | 77% | 23% |
| 2014 | 290 | 0 | 175 | 45 | 70 | 76% | 24% |
| 2015 | 548 | 0 | 300 | 103 | 145 | 74% | 26% |
| 2016 | 407 | 0 | 212 | 65 | 130 | 68% | 32% |

¹⁴⁰ Applications received are applications submitted by the homeowner to a participating lending institution for credit approval. Applications in review are submitted applications yet to be reviewed, approved or rejected. Applications withdrawn are applications that have been cancelled by the submitter due to the project not moving forward. Applications denied are applications that are not approved because the customer does not meet underwriting requirements.

6. PROGRAMS - SMART-E LOAN

| | Applications | Applications | Applications | Applications | Applications | Approved | Denied |
|-------------|--------------|--------------|--------------|--------------|--------------|----------|--------|
| Fiscal Year | Received | in Review | Approved | Withdrawn | Denied | Rate | Rate |
| 2017 | 1,105 | 0 | 664 | 198 | 243 | 78% | 22% |
| 2018 | 2,964 | 1 | 1,669 | 580 | 714 | 76% | 24% |
| 2019 | 1,813 | 31 | 839 | 358 | 585 | 67% | 33% |
| 2020 | 1,662 | 42 | 838 | 226 | 556 | 66% | 34% |
| Total | 8,811 | 74 | 4,713 | 1,576 | 2,448 | 72% | 28% |



Area Median Income Band Penetration

should be noted that Smart-E is not an income targeted program and only in the second half of FY17 began offering the expanded credit-challenged version of the program, opening new opportunities to partner with mission-oriented lenders focused on reaching consumers in underserved lower For a breakdown of Smart-E loan volume and investment by census tracts categorized by Area Median Income (AMI) bands – see Table 106. It income markets.

Table 106. Smart-E Loan Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands by FY Closed¹⁴¹

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Own er Occupied 1- 4 Unit Households | % Owner Occupied 1- 4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment / Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---|---|--|---|---|
| 2012 | %09 > | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 62,689 | %2 | 0.0 | \$0.00 | 0.0 |
| 2012 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 102,178 | 12% | 0:0 | \$0.00 | 0.0 |
| 2012 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 150,685 | 17% | 0.0 | \$0.00 | 0:0 |
| 2012 | 100%-120% | 0 | %0 | 0:0 | %0 | 0\$ | %0 | 216,484 | 25% | 0.0 | \$0.00 | 0.0 |
| 2012 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 349,212 | 40% | 0.0 | \$0.00 | 0:0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 881,248 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 61,004 | 7% | 0.0 | \$0.00 | 0.0 |
| 2013 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 109,967 | 13% | 0.0 | \$0.00 | 0:0 |
| 2013 | 80%-100% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 149,676 | 17% | 0.0 | \$0.00 | 0.0 |
| 2013 | 100%-120% | 1 | 33% | 0.0 | 36% | \$34,389 | 48% | 202,827 | 23% | 0.0 | \$0.17 | 0.0 |
| 2013 | >120% | 2 | 67% | 0.0 | 64% | \$37,535 | 52% | 350,708 | 40% | 0.0 | \$0.11 | 0.0 |
| 2013 | Total | 3 | 100% | 0.0 | 100% | \$71,924 | 100% | 874,182 | 100% | 0.0 | \$0.08 | 0.0 |
| 2014 | %09> | 13 | %6 | 0.0 | %9 | \$177,163 | %2 | 59,294 | %2 | 0.2 | \$2.99 | 6.0 |
| 2014 | %08-%09 | 17 | 12% | 0.0 | 7% | \$241,567 | 10% | 104,528 | 12% | 0.2 | \$2.31 | 0.2 |
| 2014 | 80%-100% | 20 | 14% | 0.1 | 18% | \$397,130 | 16% | 148,846 | 17% | 0.1 | \$2.67 | 0.4 |
| 2014 | 100%-120% | 24 | 17% | 0.1 | 26% | \$511,020 | 21% | 208,912 | 24% | 0.1 | \$2.45 | 0.4 |
| 2014 | >120% | 69 | 48% | 0.1 | 43% | \$1,159,627 | 47% | 347,779 | 40% | 0.2 | \$3.33 | 0.4 |
| 2014 | Total | 143 | 100% | 0.3 | 100% | \$2,486,507 | 100% | 869,359 | 100% | 0.2 | \$2.86 | 0.4 |
| | | | | | | | | | | | | |

¹⁴¹ Excludes projects in unknown bands.

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1- 4 Unit Household Distribution | Project Units /1,000 Owner Occupied 1-4 Unit Households | Total Investment / Owner Occupied 1-4 Unit | Watts / Own er Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|--|---|---|--|--|
| 2015 | %09> | 15 | 2% | 0.0 | %0 | \$142,596 | 2% | 66,632 | %8 | 0.2 | \$2.14 | 0.0 |
| 2015 | 80%-80% | 29 | 10% | 0.1 | %9 | \$539,055 | 7% | 96,059 | 11% | 0.3 | \$5.61 | 0.8 |
| 2015 | 80%-100% | 37 | 13% | 0.1 | %8 | \$848,061 | 11% | 165,205 | 19% | 0.2 | \$5.13 | 0.7 |
| 2015 | 100%-120% | 62 | 22% | 4.0 | %67 | \$2,206,558 | 29% | 183,629 | 21% | 0.3 | \$12.02 | 2.1 |
| 2015 | >120% | 135 | 49% | 0.7 | 26% | \$3,927,156 | 51% | 352,053 | 41% | 0.4 | \$11.16 | 2.1 |
| 2015 | Total | 278 | 100% | 1.3 | 100% | \$7,663,425 | 100% | 863,578 | 100% | 0.3 | \$8.87 | 1.5 |
| 2016 | %09> | 14 | %9 | 0.0 | %0 | \$173,756 | 3% | 63,056 | 7% | 0.2 | \$2.76 | 0.0 |
| 2016 | %08-%09 | 23 | 10% | 0.1 | %2 | \$482,940 | %8 | 99,073 | 12% | 0.2 | \$4.87 | 0.7 |
| 2016 | 80%-100% | 27 | 12% | 0.1 | 11% | \$657,968 | 11% | 165,012 | 19% | 0.2 | \$3.99 | 9.0 |
| 2016 | 100%-120% | 49 | 22% | 0.2 | 20% | \$1,324,910 | 22% | 187,129 | 22% | 0.3 | \$7.08 | 1.0 |
| 2016 | >120% | 108 | 49% | 9.0 | 62% | \$3,506,365 | %29 | 344,577 | 40% | 0.3 | \$10.18 | 1.7 |
| 2016 | Total | 221 | 100% | 1.0 | 100% | \$6,145,939 | 100% | 858,847 | 100% | 0.3 | \$7.16 | 1.1 |
| 2017 | %09> | 39 | 4.2% | 0.1 | %9 | \$723,259 | %2 | 64,755 | %2 | 9.0 | \$11.17 | 1.3 |
| 2017 | %08-%09 | 53 | 10% | 0.1 | %9 | \$817,809 | %8 | 97,455 | 11% | 0.5 | \$8.39 | 0.7 |
| 2017 | 80%-100% | 17 | 15% | 0.2 | 14% | \$1,358,692 | 13% | 155,414 | 18% | 0.5 | \$8.74 | 1.2 |
| 2017 | 100%-120% | 136 | 26% | 0.4 | 31% | \$3,111,565 | 29% | 209,484 | 24% | 9.0 | \$14.85 | 1.9 |
| 2017 | >120% | 217 | 42% | 9.0 | 43% | \$4,737,391 | 44% | 339,362 | 39% | 9.0 | \$13.96 | 1.6 |
| 2017 | Total | 522 | 100% | 1.3 | 100% | \$10,748,716 | 100% | 866,470 | 100% | 9.0 | \$12.41 | 1.5 |
| 2018 | %09> | 121 | 7% | 0.1 | 2% | \$1,736,310 | 5% | 62,247 | 7% | 1.9 | \$27.89 | 1.2 |
| 2018 | %08-%09 | 205 | 12% | 0.3 | 7% | \$3,380,711 | 10% | 109,142 | 13% | 1.9 | \$30.98 | 2.5 |
| 2018 | 80%-100% | 283 | 16% | 0.5 | 13% | \$4,850,078 | 14% | 145,988 | 17% | 1.9 | \$33.22 | 3.4 |
| 2018 | 100%-120% | 395 | 23% | 0.9 | 24% | \$7,906,323 | 23% | 204,880 | 24% | 1.9 | \$38.59 | 4.6 |
| 2018 | >120% | 745 | 43% | 2.1 | 54% | \$16,301,600 | 48% | 343,989 | 40% | 2.2 | \$47.39 | 6.1 |
| 2018 | Total | 1,749 | 100% | 3.9 | 100% | \$34,175,021 | 100% | 866,246 | 100% | 2.0 | \$39.45 | 4.5 |
| 2019 | %09> | 56 | 7% | 0.0 | 2% | \$693,684 | 6% | 62,247 | 7% | 6.0 | \$11.14 | 0.3 |
| 2019 | %08-%09 | 110 | 13% | 0.1 | %2 | \$1,232,662 | 11% | 109,142 | 13% | 1.0 | \$11.29 | 9.0 |
| 2019 | 80%-100% | 140 | 17% | 0.1 | %6 | \$1,684,841 | 15% | 145,988 | 17% | 1.0 | \$11.54 | 9.0 |
| 2019 | 100%-120% | 200 | 24% | 0.2 | 24% | \$2,676,877 | 24% | 204,880 | 24% | 1.0 | \$13.07 | 1.1 |
| 2019 | >120% | 326 | 39% | 0.5 | 58% | \$5,048,918 | 45% | 343,989 | 40% | 6.0 | \$14.68 | 1.5 |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total In vestment | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1- 4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment / Owner Occupied 1-4 Unit | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|----------------------|---------------------------------|--|---|--|--|---|
| 2019 | Total | 832 | 100% | 6.0 | 100% | \$11,336,982 | 100% | 866,246 | 100% | 1.0 | \$13.09 | 1.0 |
| 2020 | %09> | 09 | %8 | 0.0 | 3% | \$789,436 | % <i>L</i> | 62,247 | %2 | 1.0 | \$12.68 | 0.4 |
| 2020 | %08-%09 | 92 | 10% | 0.0 | 4% | \$911,265 | %8 | 109,142 | 13% | 7.0 | \$8.35 | 6.0 |
| 2020 | 80%-100% | 107 | 15% | 0.1 | 15% | \$1,514,380 | 13% | 145,988 | 17% | 7.0 | \$10.37 | 1.0 |
| 2020 | 100%-120% | 206 | 28% | 0.4 | 37% | \$3,362,082 | 29% | 204,880 | 24% | 1.0 | \$16.41 | 1.7 |
| 2020 | >120% | 284 | 39% | 0.4 | 42% | \$4,927,569 | 43% | 343,989 | 40% | 8.0 | \$14.32 | 1.2 |
| 2020 | Total | 733 | 100% | 1.0 | 100% | \$11,504,734 | %001 | 866,246 | 100% | 8.0 | \$13.28 | 1.1 |
| Total | %09> | 318 | %2 | 0.2 | 2% | \$4,436,203 | %9 | 62,247 | %2 | 5.1 | \$71.27 | 3.6 |
| Total | %08-%09 | 513 | 11% | 9.0 | %9 | \$7,606,010 | %6 | 109,142 | 13% | 4.7 | \$69.69 | 9.5 |
| Total | 80%-100% | 691 | 15% | 1.2 | 12% | \$11,311,149 | 13% | 145,988 | 17% | 4.7 | \$77.48 | 8.0 |
| Total | 100%-120% | 1,073 | 24% | 2.6 | 27% | \$21,133,724 | %57 | 204,880 | 24% | 5.2 | \$103.15 | 12.6 |
| Total | >120% | 1,886 | 42% | 5.1 | 53% | \$39,646,161 | %24 | 343,989 | 40% | 5.5 | \$115.25 | 14.7 |
| Total | Total | 4,481 | 100% | 9.7 | 100% | \$84,133,248 | 100% | 866,246 | 100% | 5.2 | \$97.12 | 11.1 |

TABLE 107. SMART-E LOAN ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED¹⁴²

| | #Pr | # Project Units | | | | MW | | | Total Investment | ment | |
|-------|-------|-----------------|---------|-------|------|-------|-------|--------------|------------------|-------------|-------|
| | | | | | | 100% | % at | | | | % at |
| | Over | 100% or | % at | | Over | ŏ | 100% | | | | 100% |
| | 100% | Below | 100% or | | 100% | Below | ō | | Over 100% | 100% or | ō |
| Total | | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 3 | 3 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$71,924 | \$71,924 | \$0 | %0 |
| 143 | 93 | 90 | 35% | 0.3 | 0.2 | 0.1 | 31% | \$2,486,507 | \$1,670,647 | \$815,860 | 33% |
| 278 | 197 | 81 | 29% | 1.3 | 1.1 | 0.2 | 15% | \$7,663,425 | \$6,133,713 | \$1,529,711 | 50% |
| 221 | 157 | 64 | 29% | 1.0 | 9.0 | 0.2 | 18% | \$6,145,939 | \$4,831,275 | \$1,314,664 | 21% |
| 522 | 353 | 169 | 32% | 1.3 | 1.0 | 0.3 | 76% | \$10,748,716 | \$7,848,956 | \$2,899,760 | 27% |
| 1,749 | 1,140 | 609 | 35% | 3.9 | 3.0 | 9.0 | 22% | \$34,175,021 | \$24,207,923 | \$6,967,098 | 59% |

| | | # Pr | # Project Units | | | 2 | MW | | | Total Investment | ment | |
|--------|-------|-------|-----------------|---------|-------|------|-------|-------|--------------|------------------|--------------|-------|
| | | | | | | | 100% | % at | | | | % at |
| | | Over | 100% or | % at | | Over | ŏ | 100% | | | | 100% |
| Fiscal | | 100% | Below | 100% or | | 100% | Below | ŏ | | Over 100% | 100% or | ٥ |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2019 | 832 | 526 | 306 | 37% | 6.0 | 0.7 | 0.2 | 18% | \$11,336,982 | \$7,725,795 | \$3,611,187 | 32% |
| 2020 | 733 | 490 | 243 | 33% | 1.0 | 8.0 | 0.2 | 21% | \$11,504,734 | \$8,289,652 | \$3,215,082 | 78% |
| Total | 4,481 | 2,959 | 1,522 | 34% | 9.7 | 9.7 | 2.0 | 21% | \$84,133,248 | \$60,779,885 | \$23,353,363 | 78% |

Distressed Community Penetration

For a breakdown of Smart-E project volume and investment by census tracts categorized by Distressed Communities – see Table 108. It should be noted that Smart-E is not an income targeted program.

TABLE 108. SMART-E LOAN ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Fiscal Year | Distres sed | # of Project Units | % Project Distribution | In stalled Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|----------------|--------------------------|---------------------------|--------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|--|---|----------------------------|
| 2012 | Yes | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 447,962 | 33% | 0.0 | \$0.00 | 0.0 |
| 2012 | No | 0 | %0 | 0.0 | %0 | \$0 | %0 | 912,222 | 67% | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,360,184 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | Yes | - | 33% | 0.0 | 36% | \$34,389 | 48% | 426,564 | 31% | 0.0 | \$0.0\$ | 0.0 |
| 2013 | °N | 2 | %19 | 0.0 | 64% | \$37,535 | 52% | 929,285 | %69 | 0.0 | \$0.04 | 0.0 |
| 2013 | Total | 3 | 100% | 0.0 | 100% | \$71,924 | 100% | 1,355,849 | 100% | 0.0 | \$0.05 | 0.0 |
| 2014 | Yes | 25 | 17% | 0.1 | 25% | \$532,141 | 21% | 416,415 | 31% | 0.1 | \$1.28 | 0.2 |
| 2014 | No | 118 | 83% | 6.0 | %52 | \$1,954,366 | %62 | 939,791 | %69 | 0.1 | \$2.08 | 0.3 |
| 2014 | Total | 143 | 100% | 6.0 | 100% | \$2,486,507 | 100% | 1,356,206 | 100% | 0.1 | \$1.83 | 0.2 |
| 2015 | Yes | 45 | 16% | 0.1 | %9 | \$734,328 | 10% | 423,559 | 31% | 0.1 | \$1.73 | 0.2 |
| 2015 | No | 233 | 84% | 1.2 | 94% | \$6,929,096 | %06 | 929,024 | 69% | 0.3 | \$7.46 | 1.3 |
| 2015 | Total | 278 | 100% | 1.3 | 100% | \$7,663,425 | 100% | 1,352,583 | 100% | 0.2 | \$5.67 | 1.0 |
| 2016 | Yes | 99 | 30% | 1.0 | 15% | \$1,426,930 | 23% | 438,710 | 32% | 0.2 | \$3.25 | 0.3 |
| 2016 | °N O | 155 | 40% | 8.0 | 85% | \$4,719,009 | 77% | 916,003 | 68% | 0.2 | \$5.15 | 6.0 |
| 2016 | Total | 221 | 100% | 1.0 | 100% | \$6,145,939 | 100% | 1,354,713 | 100% | 0.2 | \$4.54 | 0.7 |
| 2017 | Yes | 116 | 22% | 0.2 | 18% | \$1,883,280 | 18% | 435,595 | 32% | 0.3 | \$4.32 | 0.5 |
| | | | | | | | | | | | | |

| Fiscal Year | Distres sed | #of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units /1,000 Total Households | Total Investment / Total Household | Watts / Total Household |
|----------------|----------------|-------------------------|---------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|---|---|----------------------------|
| 2017 | N _o | 904 | 78% | 1.1 | 82% | \$8,865,437 | 82% | 926,160 | %89 | 0.4 | \$9.57 | 1.1 |
| 2017 | Total | 525 | 100% | 1.3 | 100% | \$10,748,716 | 100% | 1,361,755 | 100% | 0.4 | \$7.89 | 6.0 |
| 2018 | Yes | 152 | %6 | 0.1 | 3% | \$2,352,116 | 7% | 430,098 | 31% | 0.4 | \$5.47 | 0.3 |
| 2018 | °Z | 1,597 | 91% | 3.7 | %26 | \$31,822,905 | 93% | 937,276 | %69 | 1.7 | \$33.95 | 4.0 |
| 2018 | Total | 1,749 | 100% | 3.9 | 100% | \$34,175,021 | 100% | 1,367,374 | 100% | 1.3 | \$24.99 | 2.8 |
| 2019 | Yes | 94 | 11% | 0.1 | %8 | \$1,300,022 | 11% | 420,071 | 31% | 0.2 | \$3.09 | 0.2 |
| 2019 | °Z | 738 | %68 | 8.0 | 92% | \$10,036,960 | 89% | 947,303 | %69 | 8.0 | \$10.60 | 6.0 |
| 2019 | Total | 832 | 100% | 6:0 | 100% | \$11,336,982 | 100% | 1,367,374 | 100% | 9.0 | \$8.29 | 0.7 |
| 2020 | Yes | 158 | 21% | 0.2 | 19% | \$2,078,508 | 18% | 420,071 | 31% | 0.4 | \$4.95 | 0.4 |
| 2020 | °Z | 229 | 79% | 0.8 | 81% | \$9,451,392 | 82% | 947,303 | %69 | 9.0 | \$6.98 | 8.0 |
| 2020 | Total | 735 | 100% | 1.0 | 100% | \$11,529,900 | 100% | 1,367,374 | 100% | 0.5 | \$8.43 | 0.7 |
| Total | Yes | 259 | 15% | 0.9 | 10% | \$10,341,714 | 12% | 420,071 | 31% | 1.6 | \$24.62 | 2.2 |
| Total | No | 3,826 | 85% | 8.7 | %06 | \$73,816,700 | %88 | 947,303 | %69 | 4.0 | \$77.92 | 9.2 |
| Total | Total | 4,483 | 100% | 9.7 | 100% | \$84,158,414 | 100% | 1,367,374 | 100% | 3.3 | \$61.55 | 7.1 |
| | | | | | | | | | | | | |

Societal Impacts

Ratepayers in Connecticut enjoy the societal benefits of the Smart-E Loan. Over the course of its existence, the program has supported the creation of 1,033 job years, avoided the lifetime emission of 375,375 tons of carbon dioxide, 339,873 pounds of nitrous oxide, 284,604 pounds of sulfur oxide, and 30,705 pounds of particulate matter as illustrated by Table 109 and Table 111. Since Inception, Smart-E has generated \$4.8 million in tax revenues as shown in Table 110. The lifetime economic value of the public health impacts of the Smart-E program is estimated to be between \$10.8 and \$24.4 million as seen in Table 112.

PURPOSES ONLY

TABLE 109. SMART-E LOAN JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 0 | 0 | 0 |
| 2013 | 0 | 1 | 1 |
| 2014 | 18 | 28 | 46 |
| 2015 | 56 | 89 | 145 |
| 2016 | 45 | 72 | 117 |
| 2017 | 49 | 65 | 114 |
| 2018 | 148 | 193 | 341 |
| 2019 | 58 | 75 | 132 |
| 2020 | 59 | 77 | 136 |
| Total | 433 | 600 | 1,033 |

TABLE 110. SMART-E LOAN TAX REVENUES GENERATED BY FY CLOSED

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|---|--|-----------------------------------|-----------------------------------|
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$2,242 | \$518 | \$258 | \$3,018 |
| 2014 | \$111,194 | \$33,190 | \$33,817 | \$178,200 |
| 2015 | \$262,929 | \$68,704 | \$50,230 | \$381,863 |
| 2016 | \$225,988 | \$67,481 | \$50,851 | \$344,320 |
| 2017 | \$247,581 | \$146,849 | \$155,732 | \$550,162 |
| 2018 | \$772,133 | \$477,363 | \$545,991 | \$1,795,487 |
| 2019 | \$310,312 | \$217,549 | \$262,279 | \$790,139 |
| 2020 | \$316,740 | \$218,430 | \$245,608 | \$780,778 |
| Total | \$2,249,118 | \$1,230,082 | \$1,344,767 | \$4,823,968 |

TABLE 111. SMART-E LOAN AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emissions Avoided (tons) | | NOx Emissions Avoided (pounds) | | SOx Emissions Avoided (pounds) | | PM 2.5 (pounds) | |
|----------------|------------------------------|----------|-----------------------------------|----------|-----------------------------------|----------|-----------------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | CO2 Emissions Avoided (tons) | | | NOx Emissions Avoided (pounds) | | SOx Emissions Avoided (pounds) | | PM 2.5 (pounds) | |
|----------------|------------------------------|----------|--------|-----------------------------------|--------|-----------------------------------|--------|-----------------|--|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | |
| 2013 | 13 | 307 | 12 | 292 | 10 | 252 | 1 | 26 | |
| 2014 | 422 | 9,604 | 401 | 9,195 | 362 | 8,319 | 35 | 795 | |
| 2015 | 1,286 | 30,912 | 1,378 | 33,276 | 1,314 | 31,740 | 108 | 2,606 | |
| 2016 | 1,059 | 25,460 | 1,098 | 26,488 | 926 | 22,329 | 88 | 2,128 | |
| 2017 | 1,896 | 44,330 | 1,580 | 37,087 | 1,072 | 25,181 | 155 | 3,630 | |
| 2018 | 5,699 | 130,548 | 4,977 | 114,660 | 4,022 | 92,843 | 466 | 10,699 | |
| 2019 | 1,846 | 40,781 | 1,653 | 36,685 | 1,442 | 31,986 | 150 | 3,315 | |
| 2020 | 4,318 | 93,434 | 3,788 | 82,190 | 3,318 | 71,955 | 346 | 7,506 | |
| Total | 16,538 | 375,375 | 14,887 | 339,873 | 12,467 | 284,604 | 1,349 | 30,705 | |

TABLE 112. SMART-E LOAN PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | Anr | nual | Life | time |
|--------|-----------|-------------|--------------|--------------|
| Year | Low | High | Low | High |
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$436 | \$985 | \$10,572 | \$23,873 |
| 2014 | \$13,790 | \$31,151 | \$315,746 | \$713,220 |
| 2015 | \$44,319 | \$100,089 | \$1,058,313 | \$2,389,955 |
| 2016 | \$35,586 | \$80,370 | \$847,773 | \$1,914,627 |
| 2017 | \$68,036 | \$153,700 | \$1,568,319 | \$3,542,850 |
| 2018 | \$199,697 | \$451,154 | \$4,532,354 | \$10,238,888 |
| 2019 | \$63,315 | \$143,073 | \$1,385,123 | \$3,129,773 |
| 2020 | \$47,474 | \$107,280 | \$1,086,665 | \$2,455,515 |
| Total | \$472,653 | \$1,067,801 | \$10,804,866 | \$24,408,701 |

Financial Performance

As of 6/30/20, there have been 68 defaults, 61 of which have been charged off by the lenders, with original principal balances totaling \$1,028,199 or 1.73% of the portfolio, and 53 delinquencies with original principal balances totaling \$663,440 or 1.12% of the portfolio. Based on the total principal outstanding, as of 6/30/20, there were charged off defaults of \$747,241 or 1.77% and delinquencies of \$549,978 or 1.3%. To date the secondary loan loss reserve has been used to reimburse two participating lenders for nine defaulted loans totaling \$73,542 or 0.12% of the portfolio or 0.17% of the outstanding principal.

The household customers that accessed the Smart-E Loan since its launch in 2013 had varying credit scores – see Table 113.

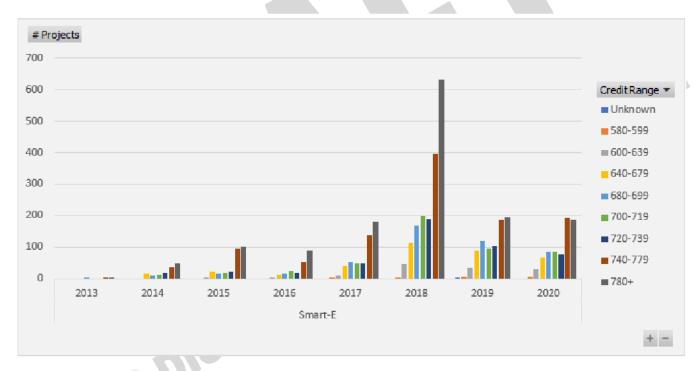
TABLE 113. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE SMART-E LOAN BY FY CLOSED

| Fiscal Year | Unknown | 580-599 | 600-639 | 640-679 | 680-699 | 700-719 | 720-739 | 740-779 | 780+ | Grand Total |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------------|
| 2012 | - | - | _ | - | - | _ | - | - | - | - |
| 2013 | | | | | 1 | | | 1 | 1 | 3 |
| 2014 | | | | 15 | 10 | 12 | 18 | 39 | 49 | 143 |

6. PROGRAMS - SMART-E LOAN

| Fiscal Year | Unknown | 580-599 | 600-639 | 640-679 | 680-699 | 700-719 | 720-739 | 740-779 | 780+ | Grand Total |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|----------------|
| 2015 | | | 1 | 24 | 15 | 19 | 23 | 95 | 101 | 278 |
| 2016 | | | 3 | 13 | 15 | 27 | 19 | 54 | 90 | 221 |
| 2017 | | 4 | 10 | 41 | 52 | 50 | 49 | 137 | 179 | 522 |
| 2018 | | 5 | 46 | 114 | 167 | 199 | 190 | 396 | 632 | 1,749 |
| 2019 | 1 | 6 | 34 | 90 | 120 | 96 | 105 | 186 | 194 | 832 |
| 2020 | | 8 | 32 | 67 | 87 | 87 | 78 | 193 | 185 | 737 |
| Total | 1 | 23 | 126 | 364 | 467 | 490 | 482 | 1,101 | 1,431 | 4,485 |
| | 0% | 1% | 3% | 8% | 10% | 11% | 11% | 25% | 32% | 100% |

FIGURE 10. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE SMART-E LOAN BY FY CLOSED



Of the Smart-E Loans approved and closed with household customers, Table 114presents the lenders offering the financing products in this program with accompanying data.

TABLE 114. SMART-E LOAN LENDERS

| Lender | # of Loans | Total Amount Financed | % of Loans | Min Loan Amount | Max Loan Amount | Average Loan Amount | Average Interest Rate | Average Term (months) | Decline Rate |
|--|---------------|--------------------------|---------------|--------------------|--------------------|---------------------------|-----------------------------|-----------------------------|-----------------|
| Capital For Change | 2,168 | \$28,845,281 | 48.3% | \$954 | \$45,000 | \$13,305 | 3.36 | 96 | 28% |
| CorePlus Federal Credit Union | 392 | \$5,205,826 | 8.7% | \$1,993 | \$45,107 | \$13,280 | 3.98 | 84 | 11% |
| Eastern Connecticut Savings Bank | 354 | \$8,139,692 | 7.9% | \$1,800 | \$50,000 | \$22 ,993 | 3.25 | 108 | 34% |

| Lender | # of Loans | Total Amount Financed | % of Loans | Min Loan Amount | Max Loan Amount | Average Loan Amount | Average Interest Rate | Average Term (months) | Decline Rate |
|---|---------------|--------------------------|---------------|--------------------|--------------------|---------------------------|-----------------------------|-----------------------------|-----------------|
| First National Bank of Suffield | 71 | \$1,341,987 | 1.6% | \$3,778 | \$45,000 | \$18,901 | 2.66 | 109 | 7% |
| lon Bank | 122 | \$1,441,811 | 2.7% | \$2,720 | \$25,000 | \$11,818 | 4.03 | 94 | 29% |
| Liberty Bank | 23 | \$307,434 | 0.5% | \$4,550 | \$25,000 | \$13,367 | 4.87 | 85 | 26% |
| Mutual Security Credit Union | 429 | \$8,615,176 | 9.6% | \$0 | \$45,000 | \$20,082 | 2.65 | 106 | 15% |
| Nutmeg State Financial Credit Union | 718 | \$11,571,250 | 16.0% | \$1,802 | \$40,000 | \$16,116 | 2.95 | 96 | 35% |
| Patriot Bank | 73 | \$1,036,115 | 1.6% | \$5,000 | \$25,000 | \$14,193 | 3.48 | 89 | 30% |
| Quinnipac Bank & Trust | 7 | \$84,056 | 0.2% | \$8,550 | \$16,556 | \$12,008 | 4.71 | 98 | 20% |
| Thomaston Savings Bank | 46 | \$558,252 | 1.0% | \$3,099 | \$25,000 | \$12,136 | 3.67 | 93 | 25% |
| Union Savings Bank | 65 | \$971,758 | 1.4% | \$4,100 | \$25,000 | \$14,950 | 3.54 | 96 | 41% |
| Workers Federal Credit Union | 17 | \$3 19,459 | 0.4% | \$7,000 | \$40,000 | \$18,792 | 3.12 | 88 | 0% |
| Grand Total | 4,485 | \$68,438,096 | 100.0% | \$0 | \$50,000 | \$15,259 | 3.30 | 97 | 28% |

Marketing

To accelerate the deployment of natural gas conversions in the state, the Smart-E program was launched in 2014 with an Energize Norwich campaign in partnership with Norwich Public Utilities and 2 local lenders. Building on that success, and to accelerate the deployment of residential solar PV through the RSIP and the uptake of the Smart-E Loan financing product, the Connecticut Green Bank implemented "Solarize Connecticut" through the end of 2015. Green Bank Solarize Connecticut programs were town based and designed to use a combination of group purchasing, time-limited offers, and grassroots outreach. The Green Bank deployed ARRA dollars into interest rate buydown programs to support market transformation efforts for key technologies that support the state's climate change mitigation goals. A 0.99% promotion in FY18 resulted in significant volume for measures such as heat pumps and solar + energy efficiency bundles. The Green Bank's own digital marketing and earned media initiatives constitute a key driver of volume in FY20 along with ongoing, in person and webinar trainings and support, for contractors.

TABLE 115. SMART-E LOAN PROJECT CHANNELS

| Channel | # of Projects | Total Investment | Installed Capacity (MW) |
|-------------------|---------------|------------------|-------------------------|
| EV | 3 | \$9,719 | 0.0 |
| Health and Safety | 1 | \$10,020 | 0.0 |
| Home Performance | 488 | \$7,534,431 | 0.0 |
| HVAC | 2,919 | \$40,543,153 | 0.0 |
| Solar | 1,021 | \$35,196,947 | 9.7 |
| Unknown | 53 | \$878,446 | 0.0 |
| Grand Total | 4,485 | \$84,172,715 | 9.7 |

TABLE 116. SMART-E LOAN MEASURES

| # of Measures | # of Projects |
|---------------|---------------|
| Unknown | 53 |
| 1 | 2,630 |
| 2 | 1,187 |
| 3 | 394 |
| 4 | 114 |
| 5 | 67 |
| 6 | 25 |
| 7 | 9 |
| 8 | 3 |
| 9 | 2 |
| 10 | 1 |
| Total | 4,485 |

In FY 2018, building on the success of the traditional Smart-E Loan program, the Green Bank gained experience in the automotive lending market by initiating a pilot program to extend the Smart-E Loan brand to cover new and used electric vehicles. Working with three regional credit union lenders, the Green Bank used an interest rate buydown to 0.99% and then 1.99% to save customers an average of \$900 on used EVs and \$2000 on new EVs. This allowed the Green Bank to test the effectiveness of a vehicle financing offer with an IRB and inform the design of future scalable programs, with an aim of also keeping more pre-owned EVs in operation in the state. The pilot concluded with 121 loans. Following the conclusion of the pilot, one Smart-E lender created an EV-specific auto loan. 143

In FY20, in response to requests from contractors and utility partners to address barriers to completing home energy assessments that lead to deeper energy efficiency projects, health and safety measures (i.e., asbestos and mold remediation) were reclassified as standalone Smart-E measures that can be financed in full, up to \$25,000. Health and safety measures had previously been limited to 25% of the total loan amount.

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¹⁴³ For reference: https://www.mscu.net/borrow/green-loans

Case 5 – Low Income Solar Lease and Energy-Efficiency Energy Savings Agreement (ESA)

Description

Through the solar developer PosiGen, a respondent to the Connecticut Green Bank's 2015 RFP soliciting solar financing solutions to address underserved markets, the Green Bank supports solar and energy efficiency deployment targeted at the state's low- to moderate-income (LMI) population. In Connecticut, PosiGen develops and originates these solar projects as project sponsor, utilizing tax equity from multiple investors, senior debt capital from private lenders, and subordinated debt from the Green Bank. Initially the Green Bank supplied a debt advance of \$5,000,000 (followed by another \$3.5 million), which was subordinated to an additional \$8,500,000 advanced by private lenders Enhanced Capital and Stonehenge Capital to leverage over \$46 million in value for solar projects targeting LMI homeowners. The RSIP program's tiered LMI performance-based incentive (PBI) provides PosiGen a higher incentive for customers demonstrating these income requirements. In FY2019, The Green Bank partnered with Inclusive Prosperity Capital to help manage the Green Bank's investment and engagement with PosiGen.

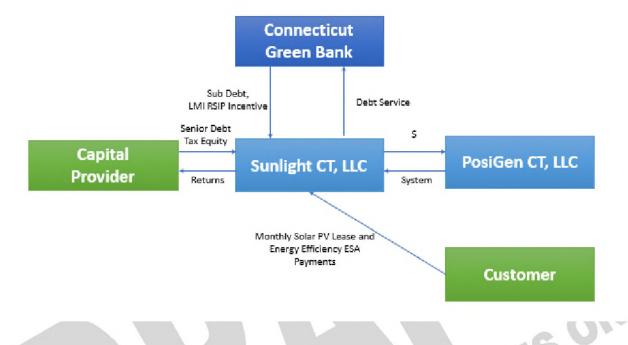
To continue to expand the program, in FY'19 the Green Bank and LibreMax closed on a \$90 million credit facility designed to allow PosiGen to continue to provide affordable solar system and energy efficiency leases to residential customers nationally, including low-to-moderate income homeowners in Connecticut. Of the \$20 million portion of the credit facility available to the PosiGen, the Green Bank allocated up to \$15 million for its own funding. This was coupled with up to \$5 million from Inclusive Prosperity Capital.

Through the partnership with PosiGen, the Connecticut Green Bank lowers the financial barriers to Connecticut LMI residential customers seeking to install solar PV with no up-front investment and energy efficiency measures. PosiGen's model also includes an alternative underwriting approach that does not rely on credit scores and a community-based marketing approach – two key ingredients for targeting this underserved market segment. Capital provided to PosiGen to be able to offer consumers a solar PV lease and energy efficiency "Energy Savings Agreement" is repaid to the Connecticut Green Bank, the tax equity investor and the lenders through consumer lease repayments. This contrasts with traditional energy program subsidies targeted to LMI homeowners, which are typically in the form of grants only.

The financial structure of the Low-Income Solar Lease product includes origination, servicing, and financing features¹⁴⁴ in combination with the support of the Connecticut Green Bank.

¹⁴⁴ Origination, servicing and financing managed by PosiGen.

FIGURE 11. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR THE LOW INCOME SOLAR LEASE



Connecticut represented the first expansion for PosiGen outside of its initial market in Louisiana, where starting in 2011, it paired solar leasing and energy efficiency services to maximize savings for LMI customers. Given the strategic emphasis the Green Bank has placed on driving investment for lower income homeowners, the organization developed a flexible funding structure to rapidly bring PosiGen to market. The concept started with the Green Bank providing "anchor capital" for PosiGen in the form of low-cost debt, together with PosiGen's own resources and tax equity from U.S. Bank (U.S. Bank was already an investor in the Connecticut market through the Green Bank's CT Solar Lease). Documentation was structured to facilitate funding by a senior lender, providing for the subordination of the Green Bank's loans once this senior lender could be secured. With initial capital requirements underwritten by the Green Bank, PosiGen had the financial backing and capital flexibility it needed to confidently secure its base of operation in Bridgeport, hire management and local staff, pursue local partnerships with existing energy efficiency and solar PV contractors, and resolve supply chain issues. By using its balance sheet as an initial source of low-cost debt capital, the Green Bank made it possible for a developer that had proven its business model in another market to bring its innovative approach to Connecticut to build investment in solar and energy efficiency for homeowners of more modest means. The investment had the intended impact: PosiGen could establish operations and get a market started, and its rapid success in Connecticut enabled the Green Bank and PosiGen to secure senior lenders and new sources of tax equity to enable operations to expand to several cities throughout Connecticut.

Key Performance Indicators

The Key Performance Indicators for the Low-Income Solar Lease's closed projects are reflected in Table 117 through Table 119. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced.

TABLE 117. LOW INCOME SOLAR LEASE PROJECT TYPES AND INVESTMENT BY FY CLOSED 145

| Fiscal | | | | # | Total | Green Bank | Private | Leverage |
|--------|----|-----|----------|----------|--------------|---------------|--------------|----------|
| Year | EE | RE | RE/EE146 | Projects | Investment | Investment147 | Investment | Ratio |
| 2012 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | 0 |
| 2015 | 0 | 4 | 0 | 4 | \$109,380 | \$36,000 | \$73,380 | 3.0 |
| 2016 | 0 | 179 | 164 | 343 | \$9,817,459 | \$3,087,000 | \$6,730,459 | 3.2 |
| 2017 | 0 | 251 | 418 | 669 | \$18,326,615 | \$6,021,000 | \$12,305,615 | 3.0 |
| 2018 | 0 | 277 | 379 | 656 | \$18,244,551 | \$5,904,000 | \$12,340,551 | 3.1 |
| 2019 | 0 | 197 | 652 | 849 | \$24,863,979 | \$7,641,000 | \$17,222,979 | 3.3 |
| 2020 | 0 | 44 | 763 | 807 | \$20,449,252 | \$7,263,000 | \$13,186,252 | 2.8 |
| Total | 0 | 952 | 2,376 | 3,328 | \$91,811,236 | \$29,952,000 | \$61,859,236 | 3.1 |

TABLE 118. LOW INCOME SOLAR LEASE PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| | | Expected | Expected Lifetime | Annual | Lifetime | | |
|--------|-----------|------------|----------------------|------------|-----------|-------------|---------------|
| | Installed | Annual | Savings or | Saved / | Saved / | | |
| Fiscal | Capacity | Generation | Generation | Produced | Produced | Annual Cost | Lifetime Cost |
| Year | (kW) | (kWh) | (MWh) | (MMBtu)148 | (MMBtu) | Savings | Savings |
| 2012 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2013 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2014 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2015 | 25.0 | 44,093 | 1,102 | 162 | 2,720 | \$4,795 | \$119,880 |
| 2016 | 2,235.9 | 3,885,928 | 97,148 | 13,902 | 233,240 | \$411,188 | \$10,279,710 |
| 2017 | 4,249.0 | 7,451,632 | 186,291 | 27,115 | 454,920 | \$801,997 | \$20,049,930 |
| 2018 | 4,360.0 | 7,848,250 | 196,206 | 27,683 | 446,080 | \$786,413 | \$19,660,320 |
| 2019 | 5,956.8 | 10,514,891 | 262,872 | 35,828 | 577,320 | \$1,017,781 | \$25,444,530 |
| 2020 | 5,065.3 | 9,315,131 | 232,878 | 34,055 | 548,760 | \$967,432 | \$24,185,790 |
| Total | 21,892.0 | 39,059,924 | 976,498 | 138,745 | 2,263,040 | \$3,989,606 | \$99,740,160 |

¹⁴⁵ Note that this investment is exclusive of Green Bank investments into PosiGen's lease funds and represents just the incentives paid for the systems participating in the lease.

¹⁴⁶ All projects that receive an RSIP incentive are required to do an energy audit/assessment.

¹⁴⁷ Includes incentives, interest rate buydowns and loan loss reserves.

¹⁴⁸ Includes only the MMBtus for the HES audit. MMTBtus for other ECMs are not included.

TABLE 119, LOW INCOME SOLAR LEASE PROJECT AVERAGES BY FY CLOSED

| Fiscal Year | Average Total Investment | Average Amount Financed | Average Installed Capacity (kW) | Average Annual Saved / Produced (MMBtu) | Average Finance Term (months) | Average Lease Price per Month | Average ESA Price per month ¹⁴⁹ |
|-------------|--------------------------------|-------------------------------|--|---|--|-------------------------------------|---|
| 2012 | \$0 | \$0 | 0.0 | 0 | 0 | - | - |
| 2013 | \$0 | \$0 | 0.0 | 0 | 0 | - | - |
| 2014 | \$0 | \$0 | 0.0 | 0 | 0 | - | - |
| 2015 | \$27,345 | \$27,345 | 6.3 | 41 | 240 | \$79 | \$10 |
| 2016 | \$28,622 | \$28,622 | 6.5 | 41 | 240 | \$80 | \$10 |
| 2017 | \$27,394 | \$27,394 | 6.4 | 41 | 240 | \$80 | \$10 |
| 2018 | \$27,812 | \$27,812 | 6.6 | 42 | 240 | \$88 | \$10 |
| 2019 | \$29,286 | \$29,286 | 7.0 | 42 | 240 | \$91 | \$0 |
| 2020 | \$25,340 | \$25,340 | 6.3 | 42 | 240 | \$83 | 0 |
| Total | \$27,588 | \$27,588 | 6.6 | 42 | 240 | \$84 | \$10 |

In fiscal year 2019 PosiGen changed their lease structure so that all customers now receive in depth energy efficiency services that were previously part of an optional, \$10 a month energy savings agreement. This change helps ensure PosiGen customers are maximizing the benefits of their PV system to reduce total energy burden.

¹⁴⁹ PosiGen's ESA provides energy efficiency measures valued at over \$2000 to lessees for between \$10-\$15 a month.

CONNECTICUT GREEN BANK 6. PROGRAMS – LOW INCOME SOLAR LEASE

Area Median Income Band Penetration

For a breakdown of PosiGen Solar for All volume and investment by census tracts categorized by Area Median Income bands – see Table 120. As an income-targeted program, this table illustrates the degree to which the goal of serving consumers in lower income communities is being met.

Table 120. Low Income Solar Lease Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands by FY Closed 150

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distributio n | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distributio | Total Owner Occupied 1-4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment / Own er Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|-------------------------------|-------------------------------|----------------------|---------------------|--------------------------------|---|--|--|---|--|
| 2012 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 689,29 | 7% | 0.0 | \$0.00 | 0.0 |
| 2012 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 102,178 | 12% | 0.0 | \$0.00 | 0.0 |
| 2012 | 80%-100% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 150,685 | 17% | 0:0 | \$0.00 | 0.0 |
| 2012 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 216,484 | 25% | 0.0 | \$0.00 | 0.0 |
| 2012 | >120% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 349,212 | 40% | 0.0 | \$0.00 | 0.0 |
| 2012 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 881,248 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 61,004 | 7% | 0.0 | \$0.00 | 0.0 |
| 2013 | %08-%09 | 0 | %0 | 0.0 | %0 | \$0 | %0 | 109,967 | 13% | 0.0 | \$0.00 | 0.0 |
| 2013 | 80%-100% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 149,676 | 17% | 0.0 | \$0.00 | 0.0 |
| 2013 | 100%-120% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 202,827 | 23% | 0.0 | \$0.00 | 0.0 |
| 2013 | >120% | 0 | %0 | 0.0 | %0 | \$0 | %0 | 350,708 | 40% | 0.0 | \$0.00 | 0.0 |
| 2013 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 874,182 | 100% | 0.0 | \$0.00 | 0.0 |
| 2014 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 59,294 | %2 | 0.0 | \$0.00 | 0.0 |
| 2014 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 104,528 | 12% | 0.0 | \$0.00 | 0.0 |
| 2014 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 148,846 | 17% | 0.0 | \$0.00 | 0.0 |
| 2014 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 208,912 | 24% | 0.0 | \$0.00 | 0.0 |
| 2014 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 347,779 | 40% | 0.0 | \$0.00 | 0.0 |
| 2014 | Total | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 869,359 | 100% | 0.0 | \$0.00 | 0.0 |
| | | | | | | | | | | | | |

¹⁵⁰ Excludes projects in unknown bands.

CONNECTICUT GREEN BANK 6. PROGRAMS – LOW INCOME SOLAR LEASE

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distributio n | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distributio n | Total Owner Occupied 1-4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment/ Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|-------------------------------|-------------------------------|----------------------|---------------------|-------------------------------------|---|--|--|---|--|
| 2015 | %09> | 2 | 20% | 0.0 | 26% | \$60,330 | 25% | 66,632 | 8% | 0.0 | \$0.91 | 0.2 |
| 2015 | %08-%09 | - | 25% | 0.0 | 20% | \$22,050 | 20% | 96,059 | 11% | 0.0 | \$0.23 | 0.1 |
| 2015 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 165,205 | 19% | 0.0 | \$0.00 | 0.0 |
| 2015 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 183,629 | 21% | 0.0 | \$0.00 | 0.0 |
| 2015 | >120% | - | 25% | 0.0 | 24% | \$27,000 | 25% | 352,053 | 41% | 0.0 | \$0.0\$ | 0.0 |
| 2015 | Total | 4 | 100% | 0.0 | 100% | \$109,380 | 100% | 863,578 | 100% | 0.0 | \$0.13 | 0.0 |
| 2016 | %09> | 116 | 34% | 0.7 | 32% | \$3,200,576 | 33% | 93,056 | %/ | 1.8 | \$50.76 | 11.5 |
| 2016 | %08-%09 | 98 | 25% | 9.0 | 25% | \$2,492,419 | 25% | 99,073 | 12% | 6:0 | \$25.16 | 5.7 |
| 2016 | 80%-100% | 51 | 15% | 0.3 | 15% | \$1,479,553 | 15% | 165,012 | 19% | 6.3 | \$8.97 | 2.0 |
| 2016 | 100%-120% | 46 | 13% | 0.3 | 14% | \$1,351,795 | 14% | 187,129 | 22% | 0.2 | \$7.22 | 1.7 |
| 2016 | >120% | 44 | 13% | 0.3 | 13% | \$1,293,116 | 13% | 344,577 | 40% | 0.1 | \$3.75 | 6.0 |
| 2016 | Total | 343 | 100% | 2.2 | 100% | \$9,817,459 | 100% | 858,847 | 100% | 0.4 | \$11.43 | 2.6 |
| 2017 | %09> | 243 | 36% | 1.4 | 34% | \$6,342,929 | 35% | 64,755 | 4.2 | 3.8 | \$97.95 | 22.4 |
| 2017 | %08-%09 | 154 | 23% | 1.0 | 23% | \$4,169,243 | 23% | 97,455 | 11% | 1.6 | \$42.78 | 6.6 |
| 2017 | 80%-100% | 121 | 18% | 8.0 | 19% | \$3,394,040 | 19% | 155,414 | 18% | 8.0 | \$21.84 | 5.1 |
| 2017 | 100%-120% | 71 | 11% | 0.5 | 12% | \$2,087,415 | 11% | 209,484 | 24% | 0.3 | 96.6\$ | 2.3 |
| 2017 | >120% | 80 | 12% | 9.0 | 13% | \$2,332,989 | 13% | 339,362 | 39% | 0.2 | \$6.87 | 1.6 |
| 2017 | Total | 699 | 100% | 4.2 | 100% | \$18,326,615 | 100% | 866,470 | 100% | 8.0 | \$21.15 | 4.9 |
| 2018 | %09> | 218 | 33% | 1.4 | 32% | \$5,813,163 | 32% | 62,247 | 7% | 3.5 | 68.86\$ | 22.1 |
| 2018 | %08-%09 | 159 | 24% | 1.0 | 24% | \$4,354,938 | 24% | 109,142 | 13% | 1.5 | \$39.90 | 9.5 |
| 2018 | 80%-100% | 126 | 19% | 0.0 | 20% | \$3,545,734 | 19% | 145,988 | 17% | 6.0 | \$24.29 | 5.8 |
| 2018 | 100%-120% | 80 | 12% | 9.0 | 13% | \$2,377,915 | 13% | 204,880 | 24% | 0.4 | \$11.61 | 2.8 |
| 2018 | >120% | 73 | 11% | 0.5 | 12% | \$2,152,801 | 12% | 343,989 | 40% | 0.2 | \$6.26 | 1.5 |
| 2018 | Total | 959 | 100% | 4.4 | 100% | \$18,244,551 | 100% | 866,246 | 100% | 8.0 | \$21.06 | 5.0 |
| 2019 | %09> | 235 | 28% | 1.5 | 26% | \$6,360,043 | 26% | 62,247 | 7% | 3.8 | \$102.17 | 24.6 |
| 2019 | %08-%09 | 222 | 26% | 1.5 | 25% | \$6,282,867 | 25% | 109,142 | 13% | 2.0 | \$57.57 | 13.8 |
| 2019 | 80%-100% | 132 | 16% | 6.0 | 15% | \$3,807,603 | 15% | 145,988 | 17% | 6.0 | \$26.08 | 6.3 |
| 2019 | 100%-120% | 133 | 16% | 1.0 | 17% | \$4,170,474 | 17% | 204,880 | 24% | 9.0 | \$20.36 | 6.4 |

CONNECTICUT GREEN BANK 6. PROGRAMS - LOW INCOME SOLAR LEASE

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distributio n | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distributio n | Total Owner Occupied 1-4 Unit Households | % Owner Occupied 1-4 Unit Household Distribution | Project Units / 1,000 Owner Occupied 1-4 Unit Households | Total Investment/ Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|--------------------------|-------------------------------|-------------------------------|----------------------|---------------------|-------------------------------------|---|--|--|---|--|
| 2019 | >120% | 127 | 15% | 1.0 | 17% | \$4,242,992 | 17% | 343,989 | 40% | 0.4 | \$12.33 | 2.9 |
| 2019 | Total | 849 | 100% | 6.0 | 100% | \$24,863,979 | 100% | 866,246 | 100% | 1.0 | \$28.70 | 6.9 |
| 2020 | %09> | 208 | 76% | 1.2 | 23% | \$4,681,545 | 23% | 62,247 | %2 | 3.3 | \$75.21 | 18.6 |
| 2020 | %08-%09 | 182 | 23% | 1.1 | 22% | \$4,454,580 | 22% | 109,142 | 13% | 1.7 | \$40.81 | 10.2 |
| 2020 | 80%-100% | 160 | 20% | 1.0 | 20% | \$4,026,590 | 20% | 145,988 | 17% | 1.1 | \$27.58 | 6.8 |
| 2020 | 100%-120% | 118 | 15% | 8.0 | 16% | \$3,204,181 | 16% | 204,880 | 24% | 9.0 | \$15.64 | 3.8 |
| 2020 | >120% | 137 | 17% | 1.0 | 20% | \$4,036,147 | 20% | 343,989 | 40% | 0.4 | \$11.73 | 2.9 |
| 2020 | Total | 805 | 100% | 5.1 | 100% | \$20,403,044 | 100% | 866,246 | 100% | 6.0 | \$23.55 | 5.8 |
| Total | %09> | 1,022 | 31% | 6.2 | 29% | \$26,458,587 | 78% | 62,247 | %1 | 16.4 | \$425.06 | 100.4 |
| Total | %08-%09 | 804 | 24% | 5.2 | 24% | \$21,776,096 | 24% | 109,142 | 13% | 7.4 | \$199.52 | 47.6 |
| Total | 80%-100% | 290 | 18% | 3.9 | 18% | \$16,253,520 | 18% | 145,988 | 17% | 4.0 | \$111.33 | 26.6 |
| Total | 100%-120% | 448 | 13% | 3.2 | 14% | \$13,191,781 | 14% | 204,880 | 24% | 2.2 | \$64.39 | 15.4 |
| Total | >120% | 462 | 14% | 3.4 | 16% | \$14,085,044 | 15% | 343,989 | 40% | 1.3 | \$40.95 | 9.9 |
| Total | Total | 3,326 | 100% | 21.9 | 100% | \$91,765,028 | 100% | 866,246 | 100% | 3.8 | \$105.93 | 25.3 |

TABLE 121. LOW INCOME SOLAR LEASE ACTIVITY IN METROPOLITAN STATISTICAL AREA (MSA) AREA MEDIAN INCOME (AMI) BANDS ABOVE OR BELOW 100% BY FY CLOSED¹⁵¹

| | | # Pr | # Project Units | | | | ΜM | | | Total Investment | stment | |
|--------|-------|--------------|------------------|-----------------|-------|--------------|------------------|-----------------|-----------|------------------|-----------|-----------------|
| Fiscal | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or | % at 100% or |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2012 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0:0 | %0 | \$0 | 80 | \$0 | %0 |
| 2013 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | 80 | \$0 | %0 |
| 2014 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0:0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2015 | 4 | _ | 3 | 75% | 0.0 | 0.0 | 0.0 | %92 | \$109,380 | \$27,000 | \$82,380 | 75% |

¹⁵¹ Excludes projects in unknown bands.

CONNECTICUT GREEN BANK 6. PROGRAMS – LOW INCOME SOLAR LEASE

| | | ‡ | # Project Units | | | | × | | | Total Investment | stment | |
|--------|-------|--------------|------------------|-----------------|-------|--------------|------------------|-----------------|--------------|------------------|--------------|-----------------|
| Fiscal | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or | % at 100% or |
| Year | Total | AMI | AMI | | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2016 | 343 | 06 | 253 | 74% | 2.2 | 9.0 | 1.6 | 73% | \$9,817,459 | \$2,644,911 | \$7,172,548 | 73% |
| 2017 | 699 | 151 | 518 | %// | 4.2 | 1.1 | 3.2 | 75% | \$18,326,615 | \$4,420,403 | \$13,906,211 | %9/ |
| 2018 | 929 | 153 | 503 | %// | 4.4 | 1.1 | 3.3 | 75% | \$18,244,551 | \$4,530,717 | \$13,713,835 | 75% |
| 2019 | 849 | 260 | 589 | %69 | 0.9 | 2.0 | 3.9 | %99 | \$24,863,979 | \$8,413,466 | \$16,450,513 | %99 |
| 2020 | 805 | 255 | 550 | %89 | 5.1 | 1.8 | 3.3 | %59 | \$20,403,044 | \$7,240,328 | \$13,162,716 | %59 |
| Total | 3,326 | 910 | 2,416 | 73% | 21.9 | 9.9 | 15.3 | %02 | \$91,765,028 | \$27,276,825 | \$64,488,203 | %02 |

The Green Bank has made great progress in its penetration of underserved markets and the low-income lease and ESA through PosiGen has been key to reaching these markets.

Distressed Community Penetration

Communities - see Table 122. As an income-targeted program, this table illustrates the degree to which the goal of serving For a breakdown of Low-Income Solar Lease project volume and investment by census tracts categorized by Distressed consumers in lower income communities is being met.

TABLE 122. LOW INCOME SOLAR LEASE ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| | sed F | Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Investment/ Total Household | Watts / Total Household |
|------------|-------|------------------|---------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|--|-----------------------------------|----------------------------|
| 2012 Yes | S | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 447,962 | 33% | 0.0 | \$0.00 | 0.0 |
| 2012 No | _ | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 912,222 | %19 | 0.0 | \$0.00 | 0.0 |
| 2012 Total | tal | 0 | %0 | 0:0 | %0 | 0\$ | %0 | 1,360,184 | 100% | 0.0 | \$0.00 | 0.0 |
| 2013 Yes | Si | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 426,564 | 31% | 0.0 | \$0.00 | 0.0 |
| 2013 No | | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 929,285 | %69 | 0.0 | \$0.00 | 0.0 |
| 2013 Total | tal | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 1,355,849 | 100% | 0.0 | \$0.00 | 0.0 |
| 2014 Yes | Si | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 416,415 | 31% | 0.0 | \$0:00 | 0.0 |
| 2014 No | | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 939,791 | %69 | 0.0 | \$0.00 | 0.0 |
| 2014 Tot | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 1,356,206 | 100% | 0.0 | \$0.00 | 0.0 |
| 2015 Yes | Si | 2 | 20% | 0.0 | 44% | \$49,500 | 45% | 423,559 | 31% | 0.0 | \$0.12 | 0.0 |

CONNECTICUT GREEN BANK 6. PROGRAMS – LOW INCOME SOLAR LEASE

| .% ≅ | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Households | % Total Household Distribution | Project Units / 1,000 Total Households | Total Investment/ Total Household | Watts / Total Household |
|-----------|---------------------------|-------------------------------|----------------------|------------------|---------------------------------|---------------------|--------------------------------------|--|--|----------------------------|
| 20% | | 0.0 | 26% | \$59,880 | 25% | 929,024 | %69 | 0.0 | \$0.06 | 0.0 |
| 100% | | 0.0 | 100% | \$109,380 | 100% | 1,352,583 | 100% | 0.0 | \$0.08 | 0.0 |
| 58% | | 1.3 | 21% | \$5,611,562 | 21% | 438,710 | 32% | 0.5 | \$12.79 | 2.9 |
| 42% | | 1.0 | 43% | \$4,205,897 | 43% | 916,003 | %89 | 0.2 | \$4.59 | 1.1 |
| 100% 2. | 2. | 2.2 | 100% | \$9,817,459 | 100% | 1,354,713 | 100% | 6.0 | \$7.25 | 1.7 |
| 60% 2.9 | 2.1 | 5 | 29% | \$10,759,337 | 29% | 435,595 | 32% | 6.0 | \$24.70 | 5.7 |
| 40% 1.8 | 1.8 | | 41% | \$7,567,277 | 41% | 926,160 | %89 | 0.3 | \$8.17 | 1.9 |
| 100% 4.2 | 4.2 | | 100% | \$18,326,615 | 100% | 1,361,755 | 100% | 0.5 | \$13.46 | 3.1 |
| 32% 1.4 | 1.4 | | 31% | \$5,697,177 | 31% | 430,098 | 31% | 0.5 | \$13.25 | 3.1 |
| 9.0 | 3.0 | | %69 | \$12,547,374 | %69 | 937,276 | %69 | 0.5 | \$13.39 | 3.2 |
| 100% 4.4 | 4.4 | | 100% | \$18,244,551 | 100% | 1,367,374 | 100% | 0.5 | \$13.34 | 3.2 |
| 25% 1.4 | 1.4 | | 24% | \$5,995,642 | 24% | 420,071 | 31% | 0.5 | \$14.27 | 3.4 |
| 75% 4.5 | 4.5 | | %92 | \$18,868,337 | %92 | 947,303 | %69 | 0.7 | \$19.92 | 4.8 |
| 100% 6.0 | 0.9 | | 100% | \$24,863,979 | 100% | 1,367,374 | 100% | 9.0 | \$18.18 | 4.4 |
| 57% 2.7 | 2.7 | | 24% | \$10,710,177 | 54% | 420,071 | 31% | 1.1 | \$25.50 | 6.3 |
| 43% 2.3 | 2.3 | , | 46% | \$9,124,754 | 46% | 947,303 | %69 | 0.4 | \$9.63 | 2.4 |
| 100% 4.9 | | 6 | %00L | \$19,834,930 | 100% | 1,367,374 | 100% | 9.0 | \$14.51 | 3.6 |
| 9. | 6 | .2 | 45% | \$38,823,395 | 43% | 420,071 | 31% | 3.5 | \$92.42 | 22.0 |
| 56% 1: | + | 12.5 | 28% | \$52,373,519 | 21% | 947,303 | %69 | 1.9 | \$55.29 | 13.2 |
| 100% 21.7 | 2 | .7 | 100% | \$91,196,914 | 100% | 1,367,374 | 100% | 2.4 | \$66.69 | 15.9 |

Societal Impacts

Over the course of its existence, the program has supported the creation of 888 job years, avoided the lifetime emission of 538,431 tons of carbon dioxide, 514,609 pounds of nitrous oxide, 421,292 pounds of sulfur oxide, and 46,004 pounds of particulate matter as illustrated by Table 123 and



Table 125. The Low-Income Solar Lease has generated \$2.2 million in tax revenues for the state since its inception as shown in Table 124. The lifetime economic value of the public health impacts from the Green Bank's partnership with PosiGen programs is estimated to be between \$16.4 and \$37.1 as seen in Table 126.

TABLE 123. LOW INCOME SOLAR LEASE JOB YEARS SUPPORTED BY FY CLOSED

| | | Indirect and | |
|--------|--------|-----------------|-------|
| Fiscal | Direct | Induced | Total |
| Year | Jobs | Jobs | Jobs |
| 2012 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 |
| 2015 | 1 | 1 | 2 |
| 2016 | 58 | 92 | 150 |
| 2017 | 71 | 94 | 165 |
| 2018 | 72 | 92 | 164 |
| 2019 | 97 | 127 | 223 |
| 2020 | 79 | 105 | 184 |
| Total | 378 | 510 | 888 |

TABLE 124. LOW INCOME SOLAR LEASE TAX REVENUES GENERATED BY FY CLOSED

| 2017 | /1 | 94 | 165 | |
|------------------|------------------|------------------|------------------|------------------|
| 2018 | 72 | 92 | 164 | |
| 2019 | 97 | 127 | 223 | |
| 2020 | 79 | 105 | 184 | |
| Total | 378 | 510 8 | 388 | |
| | | | | |
| TABLE 124 | LOW INCOME | SOLAR LEASE T | AX REVENUES G | ENIEDATED DV EV |
| TABLE 124. | LOW INCOME S | OLAK LEASE I | AX REVENUES G | ENERALED BT FT |
| | Individual | Corporate | | |
| | Income Tax | | Sales Tax | Total Tax |
| Fiscal | Revenue | Revenue | Revenue | Revenue |
| Year 2012 | Generated \$0 | Generated \$0 | Generated \$0 | Generated \$0 |
| | | | | |
| 2013 | \$0 | \$0 | \$0 | \$0 |
| 2014 | \$0 | \$0 | \$0 | \$0 |
| 2015 | \$2,958 | \$369 | \$0 | \$3,327 |
| 2016 | \$265,469 | \$33,121 | \$0 | \$298,590 |
| 2017 | \$382,626 | \$61,830 | \$0 | \$444,456 |
| 2018 | \$380,914 | \$61,553 | \$0 | \$442,467 |
| 2019 | \$519,115 | \$83,885 | \$0 | \$603,000 |
| 2020 | \$426,943 | \$68,990 | \$0 | \$495,933 |
| Total | \$1,978,026 | \$309,747 | \$0 | \$2,287,773 |

TABLE 125. LOW INCOME SOLAR LEASE AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emission | ns Avoided (tons) | | nissions (pounds) | SOx Em Avoided | | PM 2.5 (| pounds) |
|----------------|--------------|-------------------|--------|----------------------|-------------------|----------|----------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2015 | 25 | 620 | 25 | 634 | 18 | 453 | 2 | 54 |
| 2016 | 2,160 | 53,991 | 2,118 | 52,960 | 1,512 | 37,810 | 188 | 4,703 |
| 2017 | 4,057 | 101,432 | 3,662 | 91,554 | 2,643 | 66,077 | 348 | 8,690 |
| 2018 | 4,337 | 108,420 | 4,189 | 104,725 | 3,588 | 89,691 | 369 | 9,232 |
| 2019 | 5,811 | 145,264 | 5,613 | 140,324 | 4,816 | 120,400 | 495 | 12,367 |
| 2020 | 5,148 | 128,705 | 4,976 | 124,412 | 4,274 | 106,862 | 438 | 10,957 |
| Total | 21,537 | 538,431 | 20,584 | 514,609 | 16,852 | 421,292 | 1,840 | 46,004 |

TABLE 126. LOW INCOME SOLAR LEASE PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | An | nual | Life | time |
|--------|-----------|-------------|--------------|--------------|
| Year | Low | High | Low | High |
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$0 | \$0 | \$0 | \$0 |
| 2014 | \$0 | \$0 | \$0 | \$0 |
| 2015 | \$855 | \$1,931 | \$21,385 | \$48,281 |
| 2016 | \$74,986 | \$169,298 | \$1,874,650 | \$4,232,457 |
| 2017 | \$144,052 | \$325,232 | \$3,601,309 | \$8,130,790 |
| 2018 | \$151,404 | \$341,831 | \$3,785,111 | \$8,545,766 |
| 2019 | \$201,304 | \$454,491 | \$5,032,610 | \$11,362,285 |
| 2020 | \$85,187 | \$192,330 | \$2,129,684 | \$4,808,257 |
| Total | \$657,790 | \$1,485,113 | \$16,444,749 | \$37,127,836 |

Financial Performance

To date there have been eleven defaults with an original principal balance of \$184,778 or 0.425% of the portfolio, of which one charge-off with original principal balance of \$16,798 or 0.039% of the portfolio. As of 6/30/2020¹⁵² there are 146 delinquencies totaling \$2,627,779 of original principal balance¹⁵³ or 5.65% of the portfolio. This performance is consistent with expectations for a low-to-moderate income targeted product using an alternative underwriting approach.

¹⁵² July 2020 loan servicing report

¹⁵³ Based on average lease price in PosiGen Pipeline Reporting July 2019

Marketing

To build the pipeline of projects for the lease, Connecticut Green Bank supports PosiGen's community-based marketing campaigns, leveraging the institution's market analysis and local experience and connections. The Green Bank also co-brands the program so partnering community organizations and consumers know there is governmental involvement, especially critical given the targeting of underserved communities and homeowners. This includes assisting with PosiGen's outreach efforts through its Solar for All campaigns which are modeled after Green Bank Solarize campaigns.



Case 6 - Multifamily Programs

Description

Defined as buildings with 5 or more units, the Green Bank provides a suite of financing options that support property owners to assess, design, fund, and monitor high impact green energy upgrades for multifamily properties. The Green Bank contracted with Inclusive Prosperity Capital (IPC), to manage and administer these programs on behalf of CGB.

The Green Bank encourages owners to take a holistic approach to their buildings by implementing energy upgrades that will deliver a high return on investment over the long term through energy and operating cost savings, increased property values, and improvement of resident health, safety and living environment. The organization partners with building owners to finance a project design approach that is both technology and fuel agnostic – whereby owners identify the combination of renewable energy and energy efficiency measures/technology approaches that will deliver the most benefits and highest impact. This holistic approach and focus on deeper efficiency measures is particularly important in Connecticut due to the need of the state's old and aging housing stock need for significant capital improvements and health and safety remediation. We are catalyzing holistic projects that reap the benefits of significant energy and operating cost savings, which can be used to finance other capital improvements like full roof replacements and remediation of mold, asbestos, lead, etc.

The Green Bank Multifamily programs primarily target the low- and moderate-income market in Connecticut, for all ownership types, including private and non-profit owned apartments, condominiums, cooperatives, and state and federally funded affordable housing developments, including senior and assisted living facilities.

Pre-development resources

In a traditionally difficult sector to address, multifamily projects have a significant need for predevelopment financing, trusted technical support, and streamlined access to funding programs. In 2015, the Green Bank developed pre-development energy loan programs to support property owners in identifying high-quality technical assistance providers, and fund the work needed to scope and secure financing for deeper, cost effective energy upgrades. Eligible assessment and design services funded under the pre-development Navigator loan include those for energy and water efficiency, efficient fuel conversion, renewable energy systems, energy storage and EV fueling stations, qualified health and safety measures, and performance benchmarking.

The Green Bank is working to change the model of pre-development and technical assistance from one that is primarily grant-funded in the low- and moderate-income housing space to one that is loan driven and financially sustainable.

This program is supported by a revolving loan fund for loans of 1.99% to 3.99% and up to twoyear terms. The affordable multifamily version of this program is housed at the Housing Development Fund, a local CDFI, and part of a \$5 million program-related investment from the MacArthur Foundation is used to support the program. Navigator Pre-Development Energy Loan¹⁵⁴ funds pre-development costs for building owners to assess, scope and design their project.

Term Financing Solutions

The Green Bank offers the following term financing options for project implementation¹⁵⁵.

- Low Income Multifamily Energy (LIME) Loan¹⁵⁶ funds energy improvement projects for low- and moderate-income properties (where at least 60% of units serve renters at 80% or lower of Area Median Income) and is geared towards mid-cycle energy improvements. The LIME Loan program is delivered through a partnership with Capital for Change, a local CDFI (formerly known as Connecticut Housing Investment Fund) and provides alternatively secured loans (not secured by mortgages) that cover 100% of project costs, require no money down, and are repaid from energy cost savings for terms up to 20 years. Projected energy savings are used to cover the debt service of the loan. The Green Bank supports LIME with a \$325,000 loan loss reserve and provided \$3.5 million to capitalize the initial \$5 million loan fund. When it is necessary to lower the overall cost of capital to close a loan, funds from the \$5 million program-related investment from the MacArthur Foundation, housed at HDF, may be used to support the program.
- CT Green Bank Power Purchase Agreements¹⁵⁷ offer solar-only financing allows owners
 to go solar and lock in lower long-term electricity rates with no upfront cost and without the
 risk or hassle of purchasing and maintaining a system. Solar financing is available for
 multifamily properties through the Green Bank's solar power purchase agreement facilities.
 See the Case 2 CT Green Bank PPA & Solar Lease for more information.
- Commercial Property Assessed Clean Energy¹⁵⁸ (C-PACE) funds 100% of project costs with no money down. C-PACE loans are for a term of up to 20 years and are secured by using a benefit assessment on the borrower's property tax bill. The program serves market rate as well as affordable multifamily properties; however, to-date, given difficulties acquiring lender consent, multifamily C-PACE financing continues to be limited. See Case 1 C-PACE for more information.
- EnergizeCT Health & Safety Revolving Loan Fund¹⁵⁹ funds health and safety improvements necessary to allow subsequent energy improvements in existing properties. The program is funded by \$1.5 million from DEEP and provides low-interest, 2.99% fixed rate loans made available on a rolling application basis.

¹⁵⁴ Navigator Pre-Development Energy Loan: https://www.ctgreenbank.com/programs/multifamily/navigator/

¹⁵⁵ Owners are also encouraged to seek other sources of capital if they can be secured under more favorable terms than those offered by the Green Bank.

¹⁵⁶ Low Income Multifamily Energy (LIME) Loan: https://ctgreenbank.com/programs/multifamily/lime/

¹⁵⁷ Solar Power Purchase Agreement: https://ctgreenbank.com/programs/multifamily/solarppa/

¹⁵⁸ Commercial Property Assessed Clean Energy: http://www.CPACE.com/

 $^{{\}color{blue}^{159}\,\underline{https://ctgreenbank.com/programs/multifamily/energizect-health-safety-loan/}}$

Key Performance Indicators

The Key Performance Indicators for Multifamily programs closed activity are reflected in Table 127 through



Table 129. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.

TABLE 127. MULTIFAMILY PROJECT TYPES AND INVESTMENT BY FY CLOSED

| | | | | | | # | | | | | |
|--------|----|----|-------|-------|----------|---------|--------------|---------------------------|---------------------------|--------------|----------|
| Fiscal | | | | | # | Project | Amount | Total | Green Bank | Private | Leverage |
| Year | EE | RE | RE/EE | Other | Projects | Units | Financed | Investment ¹⁶⁰ | Investment ¹⁶¹ | Investment | Ratio |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 | - |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | \$0 | \$0 | - |
| 2014 | 1 | 0 | 0 | 0 | 1 | 120 | \$250,000 | \$420,000 | \$0 | \$420,000 | 1.3 |
| 2015 | 3 | 4 | 0 | 0 | 7 | 408 | \$5,550,204 | \$6,282,061 | \$4,921,542 | \$1,360,520 | 27.1 |
| 2016 | 14 | 15 | 1 | 1 | 31 | 1,767 | \$28,041,912 | \$34,005,715 | \$1,256,148 | \$32,749,567 | 5.1 |
| 2017 | 8 | 8 | 1 | 2 | 19 | 1,535 | \$9,778,782 | \$10,895,117 | \$2,150,058 | \$8,745,059 | 59.7 |
| 2018 | 6 | 2 | 1 | 10 | 19 | 1,792 | \$8,979,221 | \$9,493,247 | \$158,914 | \$9,334,333 | 26.9 |
| 2019 | 2 | 4 | 1 | 12 | 19 | 2,181 | \$31,729,947 | \$32,789,800 | \$1,219,124 | \$31,570,677 | 5.0 |
| 2020 | 4 | 7 | 5 | 2 | 18 | 1,284 | \$8,850,101 | \$9,305,699 | \$1,843,523 | \$7,462,176 | 8.9 |
| Total | 38 | 40 | 9 | 27 | 114 | 9,087 | \$93,180,167 | \$103,191,639 | \$11,549,308 | \$91,642,331 | 1.3 |

TABLE 128. MULTIFAMILY PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| | | Function | Expected | A | Lifetime | 5 | |
|--------|-----------|-----------------|------------------------|-------------------|----------|-------------|--------------|
| | Installed | Expected Annual | Lifetime Savings or | Annual Saved / | Saved / | GI | Lifetime |
| Fiscal | Capacity | Generation | Generation | Produced | Produced | Annual Cost | Cost |
| Year | (kW) | (kWh) | (MWh) | (MMBtu) | (MMBtu) | Savings | Savings |
| 2012 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2013 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2014 | 0.0 | 17,873 | 214 | 61 | 733 | \$69,534 | \$834,408 |
| 2015 | 1,030.0 | 4,147,155 | 101,912 | 5,450 | 130,331 | \$243,673 | \$5,918,657 |
| 2016 | 1,286.7 | 2,209,496 | 45,563 | 7,100 | 144,480 | \$531,098 | \$10,320,114 |
| 2017 | 2,278.8 | 2,620,026 | 63,326 | 11,557 | 105,941 | \$370,090 | \$6,926,347 |
| 2018 | 135.2 | 1,475,091 | 19,703 | 5,412 | 72,259 | \$269,666 | \$3,389,711 |
| 2019 | 403.3 | 275,772 | 6,894 | 2,215 | 33,217 | \$81,008 | \$866,069 |
| 2020 | 1,995.1 | 8,078,159 | 149,920 | 7,575 | 176,428 | \$244,780 | \$5,568,901 |
| Total | 7,129.1 | 18,823,572 | 387,531 | 39,369 | 663,390 | \$1,809,850 | \$33,824,208 |

¹⁵⁰ This number includes financing and investment for the entire project supported including clean energy, health and safety remediation, and project design.

¹⁶¹ Includes incentives, interest rate buydowns and loan loss reserves.

TABLE 129. MULTIFAMILY PROJECT AVERAGES BY FY CLOSED

| | | | Average | Average | Average Annual | Average | |
|--------|-------------|-------------|----------|-----------|-------------------|----------|---------|
| | Average | Average | Amount | Installed | Saved / | Finance | Average |
| Fiscal | Total | Amount | Financed | Capacity | Produced | Term | Finance |
| Year | Investment | Financed | per Unit | (kW) | (MMBtu) | (months) | Rate |
| 2012 | \$0 | \$0 | \$0 | 0.0 | 0 | 0 | 0.00 |
| 2013 | \$0 | \$0 | \$0 | 0.0 | 0 | 0 | 0.00 |
| 2014 | \$420,000 | \$250,000 | \$2,083 | 0.0 | 61 | 9 | 6.00 |
| 2015 | \$897,437 | \$792,886 | \$13,603 | 257.5 | 779 | 27 | 6.00 |
| 2016 | \$1,096,959 | \$904,578 | \$15,870 | 80.4 | 229 | 13 | 4.29 |
| 2017 | \$573,427 | \$514,673 | \$6,371 | 253.2 | 608 | 12 | 4.23 |
| 2018 | \$499,645 | \$472,591 | \$5,011 | 45.1 | 285 | 11 | 2.73 |
| 2019 | \$1,725,779 | \$1,669,997 | \$14,548 | 100.8 | 117 | 12 | 3.60 |
| 2020 | \$516,983 | \$491,672 | \$6,893 | 221.7 | 421 | 18 | 6.17 |
| Total | \$905,190 | \$817,370 | \$10,254 | 158.4 | 345 | 14 | 4.14 |

As the Green Bank's Multifamily programs are predominantly income-targeted, Table 122 shows a breakdown of projects completed in a year by property type and reflects the number of units impacted.

TABLE 130. MULTIFAMILY PROJECTS BY LOW TO MODERATE INCOME (LMI) OR MARKET RATE PROPERTY BY FY CLOSED

| | Affor | dable | Marke | t Rate | То | tal |
|-------------|------------------|---------|------------------|---------|------------------|---------|
| Fiscal Year | # of Projects | # Units | # of Projects | # Units | # of Projects | # Units |
| 2014 | 1 | 120 | | | 1 | 120 |
| 2015 | 5 | 326 | 2 | 82 | 7 | 408 |
| 2016 | 30 | 1,576 | 1 | 191 | 31 | 1,767 |
| 2017 | 18 | 1,435 | 1 | 100 | 19 | 1,535 |
| 2018 | 19 | 1,792 | 051 | | 19 | 1,792 |
| 2019 | 18 | 2,049 | 1 | 132 | 19 | 2,181 |
| 2020 | 15 | 1,170 | 3 | 114 | 18 | 1,284 |
| Grand Total | 106 | 8,468 | 8 | 619 | 114 | 9,087 |
| FO | BOI | | | | | |

Area Median Income Band Penetration

As a program predominantly focused on properties that serve low-to-moderate income residents, this table doesn't reflect the degree For a breakdown of Multifamily volume and investment by census tracts categorized by Area Median Income bands – see Table 131. to which the goal of serving lower income residents is being met. The program is equally focused on affordable housing properties located in more affluent communities and census tracts that are housing families of lower incomes as it is on affordable housing properties in lower income census tracts.

Table 131. Multifamily Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands by FY Closed¹⁶²

| / intal I 5+ | | | | | | | | | | | | | | | | |
|---|---------|---------|----------|-----------|---------|---------|---------|------------------|----------|------------------|------------------|---------|--------|---------|-----------|----------------|
| Watts / Owner/Rental Occupied 5+ Unit Household | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
| lotal Investment / Owner/Rental Occupied 5+ Unit Household | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$11.43 | UU U\$ |
| 1,000 1,000 Owner/Ren tal Occupied 5+ Unit | 0:0 | 0:0 | 0:0 | 0:0 | 0.0 | 0.0 | 0:0 | 0:0 | 0:0 | 0:0 | 0:0 | 0.0 | 0:0 | 0:0 | 3.3 | 0.0 |
| Owner/Rental Occupied 5+ Unit Household Distribution | 35% | 22% | 20% | 14% | 10% | 100% | 35% | 23% | 20% | 13% | 10% | 100% | 35% | 23% | 18% | 110% |
| Total Owner/Rental Occupied 5+ Unit Households | 70,561 | 43,788 | 39,234 | 27,834 | 19,133 | 200,555 | 68,381 | 45,202 | 39,451 | 25,294 | 19,303 | 197,836 | 68,722 | 44,830 | 36,752 | 28.283 |
| % Investment Distribution | i0/AIG# | i0/AIC# | i0/AIC# | i0/AIG# | #DIV/0i | i0/AIQ# | i0/AIC# | i0/ AI C# | i0/AIG# | i0/ AI C# | 10/ AI C# | #DIV/0i | %0 | %0 | 100% | .00% |
| Total Investment | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | 0\$ | \$420,000 | ∪ y |
| % MW Distribution | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | 76.0 |
| Installed Capacity (MW) | 0.0 | 0.0 | 0:0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| % Project Distribution | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | 100% | %U |
| # of Project Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 |
| MSA AMI Band | %09> | %08-%09 | 80%-100% | 100%-120% | >120% | Total | %09> | %08-%09 | 80%-100% | 100%-120% | >120% | Total | %09> | %08-%09 | 80%-100% | 100%-120% |
| Fiscal Year | 2012 | 2012 | 2012 | 2012 | 2012 | 2012 | 2013 | 2013 | 2013 | 2013 | 2013 | 2013 | 2014 | 2014 | 2014 | 2014 |

¹⁶² Excludes projects in unknown bands.

| | | | | | | | | ŀ | % | Project Units / | Total | |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|---|--|--|--|---|
| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Owner/Rental Occupied 5+ Unit Households | Owner/Rental Occupied 5+ Unit Household Distribution | 1,000 Owner/Rental Occupied 5+ Unit Households | Investment / Owner/Rental Occupied 5+ Unit Household | watts / Owner/Rental Occupied 5+ Unit Household |
| 2014 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 20,384 | 10% | 0.0 | \$0.00 | 0.0 |
| 2014 | Total | 120 | 100% | 0.0 | %0 | \$420,000 | 100% | 198,956 | 100% | 9.0 | \$2.11 | 0.0 |
| 2015 | %09> | 16 | 4% | 0.0 | %0 | \$33,234 | 1% | 84,158 | 37% | 0.2 | \$0.39 | 0.0 |
| 2015 | %08-%09 | 41 | 10% | 0.0 | %0 | \$445,000 | %2 | 44,668 | 19% | 6.0 | \$9.96 | 0.0 |
| 2015 | 80%-100% | 113 | 28% | 0.0 | %0 | \$540,000 | %6 | 53,494 | 23% | 2.1 | \$10.09 | 0.0 |
| 2015 | 100%-120% | 16 | 4% | 0.0 | 1% | \$58,782 | 1% | 24,388 | 11% | 7.0 | \$2.41 | 9.0 |
| 2015 | >120% | 222 | 54% | 1.0 | %66 | \$5,205,046 | 83% | 23,491 | 10% | 9.5 | \$221.58 | 43.3 |
| 2015 | Total | 408 | 100% | 1.0 | 100% | \$6,282,061 | 100% | 230,204 | 100% | 1.8 | \$27.29 | 4.5 |
| 2016 | %09> | 295 | 17% | 0.1 | %9 | \$19,758,029 | 28% | 86,225 | 37% | 3.4 | \$229.15 | 6.0 |
| 2016 | %08-%09 | 193 | 11% | 0.1 | 11% | \$1,815,713 | 2% | 45,398 | 19% | 4.3 | \$40.00 | 3.2 |
| 2016 | 80%-100% | 553 | 31% | 0.5 | 38% | \$7,046,916 | 21% | 49,125 | 21% | 11.3 | \$143.45 | 10.0 |
| 2016 | 100%-120% | 672 | 38% | 0.5 | 42% | \$5,290,361 | 16% | 30,753 | 13% | 21.9 | \$172.03 | 17.7 |
| 2016 | >120% | 54 | 3% | 0.0 | 2% | \$94,696 | %0 | 22,618 | 10% | 2.4 | \$4.19 | 1.1 |
| 2016 | Total | 1,767 | 100% | 1.3 | 100% | \$34,005,715 | 100% | 234,119 | 100% | 7.5 | \$145.25 | 5.5 |
| 2017 | %09> | 653 | 43% | 1.5 | %59 | \$4,410,412 | 40% | 86,272 | 37% | 9.7 | \$51.12 | 17.2 |
| 2017 | %08-%09 | 314 | 20% | 0.3 | 14% | \$3,611,545 | 33% | 43,920 | 19% | 7.1 | \$82.23 | 7.4 |
| 2017 | 80%-100% | 455 | 30% | 0.0 | 7% | \$1,558,600 | 14% | 51,444 | 22% | 8.8 | 08:08\$ | 8.0 |
| 2017 | 100%-120% | 81 | 2% | 0.3 | 11% | \$898,560 | %8 | 32,673 | 14% | 2.5 | \$27.50 | 7.7 |
| 2017 | >120% | 32 | 2% | 0.2 | %8 | \$416,000 | 4% | 21,018 | %6 | 1.5 | \$19.79 | 8.3 |
| 2017 | Total | 1,535 | 100% | 2.3 | 100% | \$10,895,117 | 100% | 235,327 | 100% | 6.5 | \$46.30 | 9.7 |
| 2018 | %09> | 1,689 | 94% | 0.0 | 27% | \$8,936,053 | 94% | 83,249 | 35% | 20.3 | \$107.34 | 0.4 |
| 2018 | %08-%09 | 9 | %0 | 0.0 | %0 | \$50,000 | 1% | 55,429 | 23% | 0.1 | \$0.90 | 0.0 |
| 2018 | 80%-100% | 41 | 2% | 0.0 | %0 | \$179,194 | 2% | 45,080 | 19% | 6.0 | \$3.98 | 0.0 |
| 2018 | 100%-120% | 32 | 2% | 0.0 | 30% | \$170,000 | 2% | 34,590 | 14% | 6:0 | \$4.91 | 1.2 |
| 2018 | >120% | 24 | 1% | 0.1 | 43% | \$158,000 | 2% | 21,753 | %6 | 1.1 | \$7.26 | 2.7 |
| 2018 | Total | 1,792 | 100% | 0.1 | 100% | \$9,493,247 | 100% | 240,101 | 100% | 7.5 | \$39.54 | 9.0 |
| 2019 | %09> | 1,427 | 65% | 0.3 | 80% | \$28,259,147 | 86% | 83,249 | 35% | 17.1 | \$339.45 | 3.9 |
| 2019 | %08-%09 | 104 | 2% | 0.0 | %0 | \$361,149 | 1% | 55,429 | 23% | 1.9 | \$6.52 | 0.0 |
| | | | | | | | | | | | | |

| Fiscal Year | MSA AMI Band | # of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner/Rental Occupied 5+ Unit Households | % Owner/Rental Occupied 5+ Unit Household Distribution | Project Units / 1,000 Owner/Ren tal Occupied 5+ Unit | Total Investment / Owner/Rental Occupied 5+ Unit | Watts / Owner/Rental Occupied 5+ Unit Household |
|----------------|-----------------|--------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|--|--|---|--|---|
| 2019 | 80%-100% | 559 | 26% | 0.0 | %0 | \$1,105,251 | 3% | 45,080 | 19% | 12.4 | \$24.52 | 0.0 |
| 2019 | 100%-120% | 09 | 3% | 0.1 | 20% | \$2,704,426 | %8 | 34,590 | 14% | 1.7 | \$78.19 | 2.4 |
| 2019 | >120% | 31 | 1% | 0.0 | %0 | \$359,828 | 1% | 21,753 | %6 | 1.4 | \$16.54 | 0.0 |
| 2019 | Total | 2,181 | 100% | 0.4 | 100% | \$32,789,800 | 100% | 240,101 | 100% | 9.1 | \$136.57 | 1.7 |
| 2020 | %09> | 264 | 24% | 9.0 | 32% | \$4,737,755 | 24% | 83,249 | 35% | 3.2 | \$56.91 | 7.6 |
| 2020 | %08-%09 | 170 | 15% | 0.4 | 18% | \$1,754,119 | 20% | 55,429 | 23% | 3.1 | \$31.65 | 6.5 |
| 2020 | 80%-100% | 208 | 19% | 0.1 | 2% | \$489,397 | %9 | 45,080 | 19% | 4.6 | \$10.86 | 2.3 |
| 2020 | 100%-120% | 425 | 38% | 6.0 | 45% | \$1,516,500 | 17% | 34,590 | 14% | 12.3 | \$43.84 | 26.0 |
| 2020 | >120% | 41 | 4% | 0.0 | %0 | \$300,000 | 3% | 21,753 | %6 | 1.9 | \$13.79 | 0.0 |
| 2020 | Total | 1,108 | 100% | 2.0 | 100% | \$8,797,771 | 100% | 240,101 | 100% | 4.6 | \$36.64 | 8.3 |
| Total | %09> | 4,344 | 49% | 2.6 | %96 | \$66,134,630 | 64% | 83,249 | 35% | 52.2 | \$794.42 | 30.7 |
| Total | %08-%09 | 828 | 86 | 0.8 | 12% | \$8,037,525 | %8 | 55,429 | 23% | 14.9 | \$145.01 | 15.0 |
| Total | 80%-100% | 2,049 | 23% | 9.0 | %6 | \$11,339,358 | 11% | 45,080 | 19% | 45.5 | \$251.54 | 14.0 |
| Total | 100%-120% | 1,286 | 14% | 1.8 | 26% | \$10,638,629 | 10% | 34,590 | 14% | 37.2 | \$307.56 | 53.0 |
| Total | >120% | 404 | 5% | 1.3 | 18% | \$6,533,570 | %9 | 21,753 | %6 | 18.6 | \$300.35 | 58.6 |
| Total | Total | 8,911 | 100% | 1.7 | 100% | \$102,683,711 | 100% | 240,101 | 100% | 37.1 | \$427.67 | 29.7 |

Table 132. Multifamily Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands Above or Below 100% by FY Closed¹⁶³

| | | #Pr | #Project Units | | | | ΜW | | | Total Investment | stment | |
|--------|-------|--------------|------------------|-----------------|-------|--------------|------------------|-----------------|---------------|------------------|--------------|-----------------|
| Fiscal | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or Below | % at 100% or | | Over 100% | 100% or | % at 100% or |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | AMI | Below AMI | Below |
| 2012 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2013 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2014 | 120 | 0 | 120 | 100% | 0.0 | 0.0 | 0.0 | %0 | \$420,000 | \$0 | \$420,000 | 100% |
| 2015 | 408 | 238 | 170 | 42% | 1.0 | 1.0 | 0.0 | %0 | \$6,282,061 | \$5,263,827 | \$1,018,234 | 16% |
| 2016 | 1,767 | 726 | 1,041 | 26% | 1.3 | 9.0 | 7.0 | %99 | \$34,005,715 | \$5,385,057 | \$28,620,658 | 84% |
| 2017 | 1,535 | 113 | 1,422 | 93% | 2.3 | 0.4 | 1.9 | 81% | \$10,895,117 | \$1,314,560 | \$9,580,556 | %88 |
| 2018 | 1,792 | 99 | 1,736 | %26 | 0.1 | 0.1 | 0.0 | 27% | \$9,493,247 | \$328,000 | \$9,165,247 | %26 |
| 2019 | 2,181 | 91 | 2,090 | %96 | 0.4 | 0.1 | 0.3 | %08 | \$32,789,800 | \$3,064,254 | \$29,725,547 | 91% |
| 2020 | 1,108 | 466 | 642 | %89 | 2.0 | 6.0 | 1.1 | 25% | \$8,797,771 | \$1,816,500 | \$6,981,271 | %62 |
| Total | 8,911 | 1,690 | 7,221 | 81% | 7.1 | 3.1 | 4.0 | %95 | \$102,683,711 | \$17,172,198 | \$85,511,513 | 83% |

163 Exdudes projects in unknown bands.

Distressed Community Penetration

For a breakdown of Multifamily project volume and investment by census tracts categorized by Distressed Communities – see Table 133. As a program predominantly focused on properties that serve low-to-moderate income residents, this table doesn't reflect the properties located in more affluent communities and census tracts that are housing families of lower incomes as it is on affordable degree to which the goal of serving lower income residents is being met. The program is equally focused on affordable housing housing properties in lower income census tracts.

Table 133. MULTIFAMILY ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| _ | | | | | | | | | | | | | | | | | | | | |
|---|---------|----------------|-----------|---------|---------|-----------|---------|-----------|------------|-------------|-----------|-------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|-------------|
| Watts / Total Household | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.1 | 8.0 | 0.8 | 1.0 | 6.0 | 3.3 | 6.0 | 1.7 | 0.1 | 0.1 |
| Total Investment/ Total Household | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.45 | \$0.31 | \$13.50 | \$0.61 | \$4.64 | \$46.32 | \$14.94 | \$25.10 | \$9.30 | \$7.39 | \$8.00 | \$11.37 | \$4.91 |
| Project Units / 1,000 Total Hou seholds | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 9:0 | 0.2 | 6.0 | 8.0 | 1.5 | 1.3 | 1.3 | 1.0 | 1.1 | 3.5 | 0.3 |
| % Total Household Distribution | 33% | %19 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 32% | %89 | 100% | 32% | %89 | 100% | 31% | %69 |
| Total Households | 447,962 | 912,222 | 1,360,184 | 426,564 | 929,285 | 1,355,849 | 416,415 | 939,791 | 1,356,206 | 423,559 | 929,024 | 1,352,583 | 438,710 | 916,003 | 1,354,713 | 435,595 | 926,160 | 1,361,755 | 430,098 | 937,276 |
| % Investment Distribution | %0 | %0 | %0 | %0 | %0 | %.0 | %0 | 100% | 100% | 91% | %6 | 100% | %09 | 40% | 100% | 37% | %89 | 100% | 52% | 48% |
| Total Investment | \$0 | 0\$ | 0\$ | 0\$ | 0\$ | \$0 | 0\$ | \$420,000 | \$ 420,000 | \$5,718,234 | \$563,827 | \$6,282,061 | \$20,319,907 | \$13,685,808 | \$34,005,715 | \$4,053,099 | \$6,842,018 | \$10,895,117 | \$4,889,924 | \$4,603,323 |
| % MW Distribution | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %0 | %18 | 13% | 100% | 26% | 74% | 100% | 63% | 37% | 100% | 27% | 73% |
| Installed Capacity (MW) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 1.0 | 1.0 | 6.0 | 1.0 | 1.3 | 1.4 | 8.0 | 2.3 | 0.0 | 0.1 |
| % Project Distribution | %0 | %0 | %0 | %0 | %0 | %0 | %0 | 100% | 100% | 62% | 38% | 100% | 20% | %08 | 100% | 38% | 62% | 100% | 84% | 16% |
| # of Project Units | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 120 | 252 | 156 | 408 | 341 | 1,402 | 1,743 | 629 | 926 | 1,535 | 1,507 | 285 |
| Distres sed | Yes | N _O | Total | Yes | No | Total | Yes | °N° | Total | Yes | No | Total | Yes | No | Total | Yes | No | Total | Yes | °Z |
| Fiscal Year | 2012 | 2012 | 2012 | 2013 | 2013 | 2013 | 2014 | 2014 | 2014 | 2015 | 2015 | 2015 | 2016 | 2016 | 2016 | 2017 | 2017 | 2017 | 2018 | 2018 |

CONNECTICUT GREEN BANK 6. PROGRAMS – MULTIFAMILY PROGRAMS

| Total No Total | 1,792 1 1,847 8 | 100% | (MM) | % MM Distribution | Total Investment | Investment Distribution | lotal Households | Household Distribution | / 1,000 Total Hou seholds | Investment/ Total Household | Watts / Total Household |
|---------------------|--------------------|-------|------|----------------------|------------------|----------------------------|---------------------|---------------------------|------------------------------|-----------------------------------|----------------------------|
| Yes No Total | | 0.50/ | 1.0 | 100% | \$9,493,247 | 100% | 1,367,374 | 100% | 1.3 | \$6.94 | 0.1 |
| No Total | | %.00 | 0.2 | 40% | \$28,997,027 | %88 | 420,071 | 31% | 4.4 | \$69.03 | 0.4 |
| Total | 334 1 | 15% | 0.2 | %09 | \$3,792,774 | 12% | 947,303 | %69 | 0.4 | \$4.00 | 0.3 |
| 7 | 2,181 | 100% | 0.4 | 100% | \$32,789,800 | 100% | 1,367,374 | 100% | 1.6 | \$23.98 | 6.0 |
| ZOZO Yes S | 859 6 | %19 | 1.8 | %68 | \$8,388,274 | %06 | 420,071 | 31% | 2.0 | \$19.97 | 4.2 |
| 2020 No 4 | 425 3 | 33% | 0.2 | 11% | \$917,425 | 10% | 947,303 | %69 | 0.4 | \$0.97 | 0.2 |
| 2020 Total 1, | 1,284 | 100% | 2.0 | 100% | \$9,305,699 | 100% | 1,367,374 | 100% | 6.0 | \$6.81 | 1.5 |
| Total Yes 5, | 5,385 5 | 29% | 4.6 | %59 | \$72,366,465 | %07 | 420,071 | 31% | 12.8 | \$172.27 | 11.0 |
| Total No 3, | 3,678 | 41% | 2.5 | 32% | \$30,825,175 | 30% | 947,303 | %69 | 3.9 | \$32.54 | 5.6 |
| Total Total 9, | 9,063 | 100% | 7.1 | 100% | \$103,191,639 | 100% | 1,367,374 | 100% | 6.6 | \$75.47 | 5.2 |

Societal Impacts

Over the course of its existence, the Green Bank's Multifamily Program has supported the creation of 2,528 job years, avoided the lifetime emission of 190,513 tons of carbon dioxide, 185,007 pounds of nitrous oxide, 156,403 pounds of sulfur oxide, and 7,440 pounds of particulate matter as illustrated by Table 134 and



Table 136. Multifamily programs are estimated to have generated \$14 million in tax revenues since inception as shown in Table 135. The lifetime economic value of the public health impacts of these programs are estimated between \$2.9 and \$6.7 million as illustrated in Table 137.

TABLE 134. MULTIFAMILY JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 |
| 2014 | 5 | 9 | 14 |
| 2015 | 28 | 45 | 73 |
| 2016 | 380 | 606 | 986 |
| 2017 | 207 | 314 | 521 |
| 2018 | 151 | 197 | 348 |
| 2019 | 213 | 288 | 501 |
| 2020 | 35 | 51 | 86 |
| Total | 1,019 | 1,509 | 2,528 |

TABLE 135. MULTIFAMILY TAX REVENUES GENERATED BY FY CLOSED

| 2019 | 213 | 288 | 501 | | |
|-----------|----------------|------------|--------|-------------|--------------|
| 2020 | 35 | 51 | 86 | | |
| Total | 1,019 | 1,509 | 2,528 | 3 | |
| | | | | | |
| TABLE 12E | BALLITIC ABOUT | TAY DEVENU | urc Gr | ENERATED BY | V CLOSED |
| ADLE 133. | IVIOLITAIVILI | TAX NEVEN | UE3 GE | INCRAICUBII | CLOSED |
| | Individual | Corpora | ate | | |
| | Income Tax | | | Sales Tax | Total Tax |
| Fiscal | Revenue | Revenu | | Revenue | Revenue |
| Year | Generated | General | ted | Generated | Generated |
| 2012 | \$0 | \$0 | | \$0 | \$0 |
| 2013 | \$0 | \$0 | | \$0 | \$0 |
| 2014 | \$28,346 | \$8,25 | 8 | \$24,487 | \$61,092 |
| 2015 | \$187,446 | \$209,80 | 60 | \$277,195 | \$674,501 |
| 2016 | \$1,965,119 | \$703,2 | 77 | \$1,533,106 | \$4,201,501 |
| 2017 | \$665,067 | \$434,80 | 07 | \$1,124,438 | \$2,224,312 |
| 2018 | \$777,572 | \$530,2 | 10 | \$1,557,411 | \$2,865,193 |
| 2019 | \$983,605 | \$682,92 | 28 | \$1,897,759 | \$3,564,293 |
| 2020 | \$142,863 | \$132,78 | 89 | \$185,754 | \$461,406 |
| Total | \$4,750,017 | \$2,702,1 | 129 | \$6,600,151 | \$14,052,297 |
| | | | | | |

TABLE 136. MULTIFAMILY AVOIDED EMISSIONS BY FY CLOSED

| | CO2 Emission | ns Avoided (tons) | | nissions (pounds) | SOx Em Avoided | | PM 2.5 (| pounds) |
|----------------|--------------|-------------------|--------|----------------------|-------------------|----------|----------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 10 | 116 | 8 | 100 | 7 | 88 | 1 | 9 |
| 2015 | 2,166 | 53,182 | 1,851 | 45,168 | 1,708 | 41,482 | 13 | 258 |
| 2016 | 1,229 | 25,375 | 1,214 | 25,196 | 1,005 | 20,288 | 104 | 2,164 |
| 2017 | 1,427 | 34,484 | 1,287 | 31,150 | 967 | 23,270 | 121 | 2,941 |
| 2018 | 801 | 10,723 | 701 | 9,477 | 614 | 8,289 | 64 | 865 |
| 2019 | 152 | 3,811 | 147 | 3,685 | 127 | 3,173 | 13 | 324 |
| 2020 | 2,653 | 62,823 | 3,933 | 70,230 | 3,206 | 59,812 | 35 | 877 |
| Total | 8,438 | 190,513 | 9,141 | 185,007 | 7,635 | 156,403 | 352 | 7,440 |

TABLE 137. MULTIFAMILY ECONOMIC VALUE OF PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | An | nual | Life | time |
|--------|-----------|-----------|-------------|-------------|
| Year | Low | High | Low | High |
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$0 | \$0 | \$0 | \$0 |
| 2014 | \$295 | \$667 | \$3,539 | \$8,000 |
| 2015 | \$5,115 | \$11,555 | \$98,720 | \$222,960 |
| 2016 | \$40,706 | \$91,939 | \$858,016 | \$1,937,594 |
| 2017 | \$50,343 | \$113,670 | \$1,222,697 | \$2,760,618 |
| 2018 | \$24,786 | \$56,022 | \$336,256 | \$759,928 |
| 2019 | \$8,910 | \$20,117 | \$222,761 | \$502,934 |
| 2020 | \$9,416 | \$21,259 | \$235,403 | \$531,478 |
| Total | \$139,572 | \$315,228 | \$2,977,392 | \$6,723,512 |

Financial Performance

To date there have been no defaults and as of 6/30/2020 there were 2 delinquencies representing \$1,445,752 of original principal, 0.14% of the portfolio. All delinquent projects were PPA's.

Marketing

The Green Bank's multifamily programs are built on partnerships with key housing organizations in Connecticut that support the Green Bank's multifamily programs in marketing, outreach, demonstration, and education programs to build awareness and customer demand by property owners. Our approach is to leverage and collaborate with these well-established organizations, building on their initiatives and programs, as we work to scale and "mainstream" holistic clean energy improvements in the multifamily sector. Key partners include the Affordable Housing Alliance, (formerly the Connecticut Housing Coalition), Department of Housing, Connecticut Housing Finance Authority and the HUD Connecticut Field Office, as well as the utility

companies. These organizations partner with us at conferences as well as other outreach and education activities organized by the Green Bank.

We also conduct direct outreach to property owners through a sales consultant who has a strong network of relationships with multifamily property owners and managers.

In 2017 we established a Multifamily Peer-to-Peer network where advanced practitioners, including owners, developers, architects, professional service providers and funders, gather on a monthly basis to exchange information and discuss their projects – with the goal of building greater professional capacity in the sector and awareness of Green Bank programs.

Case 7 – Strategic Investments

Description

As opportunities present themselves, the Green Bank's financial resources are considered for part of the capital stack of projects that are outside any of the organization's existing programs. These projects are selected based on the opportunity to expand the organization's experience with specific technologies, to advance economic development in a specific locale, or to drive adoption of clean energy that would otherwise not occur.

Key Performance Indicators

The Key Performance Indicators for the Strategic Program closed activity are reflected in Table 138 through Table 140.

TABLE 138. STRATEGIC PROJECT TYPES AND INVESTMENT BY FY CLOSED

| Fiscal | | | | | # | | Green Bank | Private | Leverage |
|--------|----|-----|-------|-------|----------|------------------|---------------|---------------|----------|
| Year | EE | RE | RE/EE | Other | Projects | Total Investment | Investment164 | Investment | Ratio |
| 2012 | - | - | - | - | - 1 | - | - | | - |
| 2013 | - | 1 | - | | 1 | \$70,800,000 | \$5,800,000 | \$65,000,000 | 12.2 |
| 2014 | 1 | | - | - 1 | - | - | - | -0// | - |
| 2015 | 1 | 1 | - | 1 | 2 | \$56,500,000 | \$3,227,000 | \$53,273,000 | 17.5 |
| 2016 | - | - | - | 2.0 | - | - | | - | - |
| 2017 | - | 1 | - 1 | - | 1 | \$4,538,212 | \$3,900,000 | \$638,212 | 1.2 |
| 2018 | - | - 1 | - | - | - | - | | - | - |
| 2019 | 1 | 1 | - | - | 1 | \$6,503,800 | \$1,200,000 | \$5,303,800 | 5.4 |
| 2020 | - | 2 | - | - | 2 | \$20,738,702 | \$6,723,188 | \$14,015,514 | -3.1 |
| Total | 1 | 6 | | 7 7 | 7 | \$159,080,714 | \$20,850,188 | \$138,230,526 | 7.6 |

TABLE 139. STRATEGIC PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) |
|----------------|----------------------------|-------------------------------------|--|--|--|
| 2012 | | - | - | - | - |
| 2013 | 14,800.0 | 116,683,200 | 1,166,832 | 398,123 | 3,981,231 |
| 2014 | - | - | - | - | - |
| 2015 | 5,000.0 | 136,494,997 | 1,661,591 | 465,850 | 403,503 |
| 2016 | - | - | - | - | - |
| 2017 | 193.0 | 828,433 | 20,711 | 2,827 | 70,665 |
| 2018 | - | - | - | - | - |
| 2019 | 997.7 | 4,282,527 | 107,063 | 3,876 | 96,900 |
| 2020 | 7,700.0 | 60,444,000 | 614,952 | 29,919 | 305,015 |
| Total | 28,690.7 | 318,733,060 | 3,571,149 | 900,594 | 10,124,702 |

¹⁶⁴ Includes incentives, interest rate buydowns and loan loss reserves.

TABLE 140. STRATEGIC PROJECT AVERAGES BY FY CLOSED

| Fiscal Year | Average Total Investment | Average Amount Financed | Average Installed Capacity (kW) | Average Annual Saved / Produced (MMBtu) |
|-------------|-----------------------------|----------------------------|------------------------------------|---|
| 2012 | - | - | - | - |
| 2013 | \$70,800,000 | \$5,800,000 | 14,800.0 | 398,123 |
| 2014 | - | - | - | - |
| 2015 | \$28,250,000 | \$1,613,500 | 2,500.0 | 232,925 |
| 2016 | - | - | | - |
| 2017 | \$4,538,212 | \$3,900,000 | 193.0 | 2,827 |
| 2018 | - | - | - | - |
| 2019 | \$6,503,800 | \$6,503,800 | 997.7 | - |
| 2020 | \$10,369,351 | \$10,369,351 | 3,850.0 | - |
| Total | \$22,725,816 | \$5,738,500 | 4,781.8 | 216,700 |

Societal Impacts

Ratepayers in Connecticut enjoy of the societal benefits of Strategic Investments. Over the course of its existence, the program has supported the creation of 2,096 job years, avoided the lifetime emission of 1,089,248 tons of carbon dioxide, 1,798,303 pounds of nitrous oxide, 1,454,162 pounds of sulfur oxide, and 17,794 pounds of particulate matter as illustrated by Table 141 and Table 143. These projects are estimated to have generated \$15 million in tax revenues for the state of CT since inception as shown in

Table 142. The lifetime economic value of the public health impacts of these projects are estimated between \$15 and \$34 million as illustrated in Table 144.

TABLE 141. STRATEGIC JOB YEARS SUPPORTED BY FY CLOSED

TABLE 142. STRATEGIC TAX REVENUES GENERATED BY FY CLOSED

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|---|--|-----------------------------------|-----------------------------------|
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$1,782,886 | \$503,246 | \$3,907,840 | \$6,193,972 |
| 2014 | \$0 | \$0 | \$0 | \$0 |
| 2015 | \$2,001,357 | \$1,253,139 | \$3,036,598 | \$6,291,094 |
| 2016 | \$0 | \$0 | \$0 | \$0 |
| 2017 | \$148,127 | \$176,704 | \$237,072 | \$561,903 |
| 2018 | \$0 | \$0 | \$0 | \$0 |
| 2019 | \$212,284 | \$253,238 | \$339,752 | \$805,275 |
| 2020 | \$452,443 | \$127,944 | \$1,150,259 | \$1,730,646 |
| Total | \$4,597,097 | \$2,078,414 | \$8,792,602 | \$15,468,113 |

TABLE 143. STRATEGIC AVOIDED EMISSIONS BY FY CLOSED

| | | missions ded (tons) | | nissions (pounds) | | ions Avoided unds) | PM 2.5 | (pounds) |
|----------------|--------|------------------------|---------|----------------------|---------|-----------------------|--------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | - | - | - | ı | - | | - | - |
| 2013 | 7,876 | 78,761 | 63,009 | 630,089 | 45,623 | 456,231 | 0 | 0 |
| 2014 | - | | - | - | | - | - | - |
| 2015 | 74,261 | 904,728 | 65,253 | 798,227 | 58,574 | 719,983 | 5,897 | 71,794 |
| 2016 | - | - | - | | 7 | - | - | - |
| 2017 | 430 | 10,759 | 356 | 8,906 | 323 | 8,077 | 0 | 0 |
| 2018 | 7 | - | (| -41- | - | - | - | - |
| 2019 | 2,225 | 55,619 | 1,841 | 46,037 | 1,670 | 41,755 | - | - |
| 2020 | 3,938 | 39,381 | 31,504 | 315,045 | 22,812 | 228,116 | - | - |
| Total | 88,730 | 1,089,248 | 161,964 | 1,798,303 | 129,002 | 1, 454, 162 | 5,897 | 71,794 |

TABLE 144. STRATEGIC PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | An | nual | Life | time |
|--------|-----------|-------------|-------------|--------------|
| Year | Low | High | Low | High |
| 2012 | - | - | - | - |
| 2013 | \$839,171 | \$1,896,841 | \$8,391,713 | \$18,968,414 |
| 2014 | - | - | - | - |
| 2015 | \$124,567 | \$280,670 | \$1,868,508 | \$4,210,056 |
| 2016 | - | - | - | - |
| 2017 | - | - | - | - |
| 2018 | - | - | - | - |
| 2019 | \$29,353 | \$66,348 | \$733,821 | \$1,658,711 |

6. PROGRAMS - STRATEGIC INVESTMENTS

| Fiscal | An | nual | Lifetime | | |
|--------|-------------|-------------|--------------|--------------|--|
| Year | Low | High | Low | High | |
| 2020 | \$419,586 | \$948,421 | \$4,195,856 | \$9,484,207 | |
| Total | \$1,412,677 | \$3,192,281 | \$15,189,898 | \$34,321,389 | |



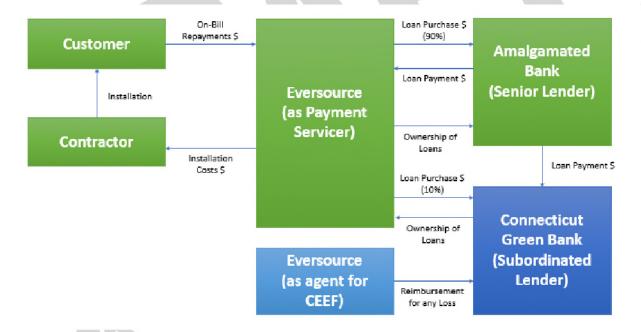
Case 8 - SBEA

Description

The Small Business Energy Advantage program was created in partnership by the United Illuminating and Eversource under the guidance of the Energy Efficiency Board. The program enables small businesses, who have an average 12-month peak demand between 10 and 200 kw to reduce their energy costs by addressing energy efficiency opportunities in their office, shops, restaurants, and factories. Participants can borrow up to \$100,000 to address these measures, at zero interest and repay their financing on their electric bills.

In 2019, the Green Bank closed on a financing structure that brought cheaper capital from the market to the program, thereby reducing the ratepayer's subsidy it, by lowering the cost of capital in the program through a public-private partnership between the Green Bank and Amalgamated Bank.

FIGURE 12. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR SBEA



Key Performance Indicators

The Key Performance Indicators for SBEA closed activity are reflected in

Table 145 and Table 146. These illustrate the volume of projects by year, investment, and generation capacity installed. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.



TABLE 145. SBEA PROJECT TYPES AND INVESTMENT BY FY CLOSED

| Fiscal | | # | Total | Green Bank | Private | Leverage |
|--------|--------|----------|--------------|-------------|--------------|----------|
| Year | EE | Projects | Investment | Investment | Investment | Ratio |
| 2012 | - | - | - | - | - | - |
| 2013 | - | - | - | - | - | - |
| 2014 | - | - | - | - | - | - |
| 2015 | - | - | - | - | - | - |
| 2016 | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - |
| 2019 | 4,339 | 4,339 | \$47,681,205 | \$4,486,648 | \$43,194,557 | 10.6 |
| 2020 | 617 | 617 | \$10,912,879 | \$1,011,807 | \$9,901,072 | 10.8 |
| Total | 4, 956 | 4, 956 | \$58,594,084 | \$5,498,455 | \$53,095,629 | 10.7 |

TABLE 146. SBEA PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED 165

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) | Annual Cost Savings | Lifetime Cost Savings |
|----------------|-------------------------------|---|---|--|--|------------------------|--------------------------|
| 2012 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2013 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2014 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2015 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2016 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2017 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2018 | 0.0 | 0 | 0 | 0 | 0 | \$0 | \$0 |
| 2019 | 0.0 | 122,046,294 | 1,464,556 | 0 | 0 | \$0 | \$0 |
| 2020 | 0.0 | 17,354,820 | 208,258 | 0 | 0 | \$0 | \$0 |
| Total | 0.0 | 139,401,113 | 1,672,813 | 0 | 0 | \$0 | \$0 |

Societal Impacts

Over the course of its existence, the program has supported the creation of 709 job years, avoided the lifetime emission of 906,918 tons of carbon dioxide, 782,852 pounds of nitrous oxide, 687,756 pounds of sulfur oxide, and 72,215 pounds of particulate matter as illustrated by

¹⁶⁵ Energy Savings numbers for SBEA are provided by to the Green Bank by Eversource using their established methodology. These savings numbers are not included in overall Green Bank impact numbers.

Table 147 and Table 148. SBEA has generated \$6.2 million in tax revenues for the state since its inception as shown in Table 149.



TABLE 147. SBEA JOB YEARS SUPPORTED BY FY CLOSED 166

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | 0000 | 0 | 0 |
| 2013 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 |
| 2015 | 0 | 0 | 0 |
| 2016 | 0 | 0 | 0 |
| 2017 | 0 | 0 | 0 |
| 2018 | 0 | 0 | 0 |
| 2019 | 253 | 324 | 577 |
| 2020 | 58 | 74 | 132 |
| Total | 311 | 398 | 709 |

TABLE 148. SBEA AVOIDED EMISSIONS BY FY CLOSED167

| | CO2 Emissions Avoided (tons) | | NOx Emissions Avoided (pounds) | | SOx Emissions Avoided (pounds) | | PM 2.5 (pounds) | |
|----------------|------------------------------|----------|-----------------------------------|----------|-----------------------------------|----------|-----------------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2016 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2017 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2019 | 66,168 | 794,011 | 57,116 | 685,391 | 50,178 | 602,133 | 5,269 | 63,225 |
| 2020 | 9,409 | 112,907 | 8,122 | 97,462 | 7,135 | 85,623 | 749 | 8,990 |
| Total | 75,576 | 906,918 | 65,238 | 782,852 | 57,313 | 687,756 | 6,018 | 72, 215 |

TABLE 149. SBEA TAX REVENUES GENERATED BY FY CLOSED

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|---|--|-----------------------------------|-----------------------------------|
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$0 | \$0 | \$0 | \$0 |
| 2014 | \$0 | \$0 | \$0 | \$0 |
| 2015 | \$0 | \$0 | \$0 | \$0 |

¹⁶⁶ These jobs estimates were calculated using the established Green Bank methodology but are not included in overall Green Bank impact numbers.

¹⁶⁷ These avoided emissions are provided by Eversource and are excluded from the Green Bank's total emissions avoided

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|---|--|-----------------------------------|-----------------------------------|
| 2016 | \$0 | \$0 | \$0 | \$0 |
| 2017 | \$0 | \$0 | \$0 | \$0 |
| 2018 | \$0 | \$0 | \$0 | \$0 |
| 2019 | \$1,373,552 | \$937,508 | \$2,779,957 | \$5,091,018 |
| 2020 | \$314,367 | \$214,569 | \$636,254 | \$1,165,190 |
| Total | \$1,687,920 | \$1,152,077 | \$3,416,211 | \$6,256,208 |

Financing Program

SBEA offer participants zero-interest, on-bill financing for up to 4 years. Business are eligible for up to \$100,000 per meter, with higher limits for municipalities and the state. The Connecticut Green Bank and Amalgamated Bank have partnered together to supply capital for Eversource's SBEA financing. The loans are originally funded by Eversource. Connecticut Green Bank and Amalgamated Bank purchase these loans on a quarterly basis at a rate discounted to bring their customer-facing rate to 0%. Connecticut Green Bank contributes 10% of the capital for these purchases and the remaining 90% comes from Amalgamated Bank. Loan losses are backed by the Connecticut Energy Efficiency Fund.

Financial Performance

As of June 30, 2019, there were 148 delinquent SBEA loans with a balance of \$ \$1,058,669.57 or 3.7% of the outstanding balance. These delinquencies represent 1.8% of the original balance.

Marketing

SBEA is marketed by the utilities through a network of authorized contractors. They offer a free energy assessment and incentives, in addition to the financing. At present, the Green Bank is not involved with efforts to market SBEA.

Case 9 – Anaerobic Digestion and Combined Heat and Power Pilot Programs

Description

These pilot programs were initiated in 2011 per Public Act 11-80 Section 103, the Green Bank is to develop a three-year pilot program for AD and CHP by setting aside \$2 million a year for each pilot for three years — for a total of \$12 million. Funds to support the pilot programs could be used as grants, power purchase agreements or loans. There were to be no more than five (5) AD projects, each no more than 3 MW in size, and no more than 50 MW of CHP projects each not to exceed 5 MW in size. Both pilot programs supported projects at no more than \$450 per kW on a grant basis; Seven projects were supported over the duration of these pilots (see Table 143 below). Due to the Connecticut General Assembly's reallocation of monies from the Clean Energy Fund to the General Fund in 2017, the Green Bank cancelled existing commitments for these pilots the following year.

Key Performance Indicators

The Key Performance Indicators for the AD and CHP Pilot Programs closed activity are reflected in Table 150 through Table 152. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.

TABLE 150. AD AND CHP PILOT PROJECT TYPES AND INVESTMENT BY FY CLOSED

| Fiscal | | | | # | Total | Green Bank | Private | Leverage |
|--------|----|-----|-------|----------|--------------|---------------|--------------|----------|
| Year | EE | RE | RE/EE | Projects | Investment | Investment168 | Investment | Ratio |
| 2012 | - | - | - | - | - 1 | - | - | - |
| 2013 | | 2 | | 2 | \$3,189,000 | \$304,500 | \$2,884,500 | 10.5 |
| 2014 | | 1 | | 1 | \$6,300,000 | \$630,000 | \$5,670,000 | 10.0 |
| 2015 | | 2 | | 2 | \$642,578 | \$60,750 | \$581,828 | 10.6 |
| 2016 | | 1 | | 11 | \$10,500,000 | \$1,997,403 | \$8,502,597 | 5.3 |
| 2017 | | 1 | | 1 | \$3,401,392 | \$502,860 | \$2,898,532 | 6.8 |
| 2018 | - | | (() | - | - | - | - | - |
| 2019 | | - 1 | | - | - | - | - | - |
| 2020 | Κ. | - 1 | - | - | - | - | - | - |
| Total | | 7 | | 7 | \$24,032,970 | \$3,495,513 | \$20,537,457 | 6.9 |

¹⁶⁸ Includes incentives, interest rate buydowns and loan loss reserves.

TABLE 151. AD AND CHP PILOT PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) | Annual Food/Organic Waste (tons/year) |
|-------------|-------------------------------|---|---|--|--|--|
| 2012 | - | - | - | - | - | |
| 2013 | 685.0 | 5,400,540 | 81,008 | 32,533 | 488,002 | |
| 2014 | 3,000.0 | 23,652,000 | 354,780 | 142,482 | 2,137,234 | |
| 2015 | 135.0 | 1,064,340 | 15,965 | 4,000 | 60,001 | |
| 2016 | 1,010.0 | 7,078,080 | 106,171 | 44,949 | 674,240 | 40,000 |
| 2017 | 795.0 | 6,267,780 | 94,017 | 304,445 | 4,566,675 | |
| 2018 | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - |
| 2020 | - | - | - | - | | - |
| Total | 5,625.0 | 43,462,740 | 651,941 | 528,410 | 7,926,152 | 40,000 |

TABLE 152. AD AND CHP PILOT PROJECT AVERAGES BY FY CLOSED

| | Total Average | Average Amount | Average Installed | Average Annual Saved / Produced |
|-------------|---------------|-------------------|----------------------|------------------------------------|
| Fiscal Year | Investment | Financed | Capacity (kW) | (MMBtu) |
| 2012 | - | - | - | |
| 2013 | \$1,594,500 | \$0 | 342.5 | 16,267 |
| 2014 | \$6,300,000 | \$0 | 3,000.0 | 142,482 |
| 2015 | \$321,289 | \$0 | 67.5 | 2,000 |
| 2016 | \$10,500,000 | \$1,997,403 | 1,010.0 | 44,949 |
| 2017 | \$3,401,392 | \$502,860 | 795.0 | 304,445 |
| 2018 | - | - | 1-07 | - |
| 2019 | - 1 | - | _ 6.7- | - |
| 2020 | - | | | - |
| Total | \$3,433,281 | \$1,250,132 | 803.6 | 75,487 |

Societal Impacts

Ratepayers in Connecticut continue to enjoy the societal benefits of the AD and CHP Programs despite its closure. Over the course of its existence, these programs have supported the creation of 188 job years as illustrated by Table 153. These projects have generated over \$2 million in tax revenues as shown in Table 154. We have not included environmental or public health impacts for these pilots as the Avert and CoBRA models do not consider the technologies of these pilots.

TABLE 153. AD AND CHP PILOT JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | - | - | - |
| 2013 | 12 | 20 | 32 |
| 2014 | 25 | 39 | 64 |
| 2015 | 3 | 4 | 6 |

CONNECTICUT GREEN BANK 6. PROGRAMS – PILOT PROGRAMS

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2016 | 20 | 32 | 51 |
| 2017 | 13 | 21 | 34 |
| 2018 | - | - | - |
| 2019 | - | - | - |
| 2020 | - | - | - |
| Total | 73 | 115 | 188 |

TABLE 154. AD AND CHP TAX REVENUES GENERATED BY FY CLOSED

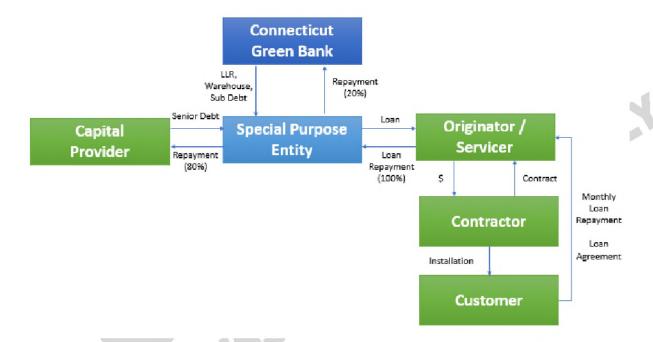
| 2012 \$0 \$0 \$0 2013 \$103,438 \$84,824 \$174,572 \$362,834 2014 \$204,347 \$167,574 \$344,873 \$716,794 2015 \$20,843 \$17,092 \$35,176 \$73,110 2016 \$101,777 \$0 \$600,933 \$702,709 2017 \$73,820 \$90,474 \$186,198 \$350,492 2018 \$0 \$0 \$0 2019 \$0 \$0 \$0 |
|--|
| 2014 \$204,347 \$167,574 \$344,873 \$716,794 2015 \$20,843 \$17,092 \$35,176 \$73,110 2016 \$101,777 \$0 \$600,933 \$702,709 2017 \$73,820 \$90,474 \$186,198 \$350,492 2018 \$0 \$0 \$0 |
| 2015 \$20,843 \$17,092 \$35,176 \$73,110 2016 \$101,777 \$0 \$600,933 \$702,709 2017 \$73,820 \$90,474 \$186,198 \$350,492 2018 \$0 \$0 \$0 |
| 2016 \$101,777 \$0 \$600,933 \$702,709 2017 \$73,820 \$90,474 \$186,198 \$350,492 2018 \$0 \$0 \$0 |
| 2017 \$73,820 \$90,474 \$186,198 \$350,492 2018 \$0 \$0 \$0 |
| 2018 \$0 \$0 \$0 |
| |
| 2019 \$0 \$0 \$0 \$0 |
| |
| 2020 \$0 \$0 \$0 |
| Total \$504,225 \$359,963 \$1,341,752 \$2,205,940 |

Case 10 – CT Solar Loan (Graduated)

Description

The Connecticut Solar Loan was a \$5 million pilot public-private partnership between the Green Bank and Sungage Financial resulting in the first crowd-funded solar loan program in the country. It was the first of the Green Bank's ventures to be retired and graduated from the Green Bank's funding to a \$100 million pool of capital from the Digital Federal Credit Union to enable citizens to own solar PV systems installed on their homes.

FIGURE 13. LEGAL STRUCTURE AND FLOWS OF CAPITAL FOR THE CT SOLAR LOAN



The CT Solar Loan yields an appropriate rate of return to the capital providers commensurate with the risks they are taking, provided 19 contractors with an important sales tool, and gave nearly 300 customers the ability to own solar PV through low-interest and long-term financing along with access to the federal ITC and state incentives (i.e., the RSIP Expected Performance Based Buydown). Of the \$6.0 million invested by the Connecticut Green Bank into the CT Solar Loan, \$1.0 million has been sold to the crowd-funding platform Mosaic, \$2.6 million to a Community Development Financial Institution in The Reinvestment Fund, and the remaining is on the balance sheet of the Connecticut Green Bank.

In structuring the solar loan product, the Green Bank's objective was to enable homeowners of varying financial means to own their own solar PV systems. Prior to the CT Solar Loan's creation, a homeowner would need to use their own savings or their own home equity (most often though a home equity line of credit) to pay for the system, which, at that time, often required an investment exceeding \$25,000. The requirement for such a level of personal financial resources dramatically constrained the "ownership" market for solar PV. So, the Green Bank with its partner Sungage Financial, developed the CT Solar Loan which made 15-year

financing available at affordable interest rates without the need to have a lien on the home or limit the purchase to certain manufacturers who offered financing solely for their panels. In developing the CT Solar Loan, the Green Bank had to overcome the risk of being unable to sell the loans to private investors which would have tied up capital resources of the Green Bank and limited its ability to deploy investment of additional clean energy. Ultimately, the Green Bank became confident that a sufficient rate of return could be offered to enable the investments to "clear" the market without a discount (or loss) to the Green Bank. The combination of crowdsourced funding and a structured private placement enabled the Green Bank to sell the investments with recourse limited to the underlying consumer loans as well as a limited loan loss reserve using American Recovery and Reinvestment Act funds from the US Department of Energy.

The CT Solar Loan was the Connecticut Green Bank's first residential product graduation. It started off being the first crowd-funded residential solar PV transaction with Sungage Financial through Mosaic. 169 And then it graduated to a partnership between Sungage Financial and Digital Federal Credit Union – with no resources from the Connecticut Green Bank. 170 The Ioan offering from Sungage Financial now includes 5, 10, and 20 year maturity terms at affordable interest rates and is being offered in California, Florida, Massachusetts, New Jersey, New York, and Texas – along with solar PV contractors in Connecticut.

Key Performance Indicators

The Key Performance Indicators for the CT Solar Loan closed activity are reflected in Table 155 through Table 158. These illustrate the volume of projects by year, investment, generation capacity installed, and the amount of energy saved and/or produced. It also breaks down the volume of projects by energy efficiency, renewable generation, or both.

| TABLE 155. | CT SOLA | R LOAN PRO | DJECT TYPE | S AND INVES | TMENT BY F | Y CLOSED |
|------------|---------|------------|------------|-------------|------------|----------|
| | | | | | | |

| Fiscal | | | | # | Total | Green Bank | Private | Leverage |
|--------|-------------------|-----|-------|----------|-------------|---------------------------|-------------|----------|
| Year | EE ¹⁷¹ | RE | RE/EE | Projects | Investment | Investment ¹⁷² | Investment | Ratio |
| 2012 | - | - | 1 | (| - | - | - | - |
| 2013 | - | 3 | | 3 | \$91,924 | \$5,025 | \$86,899 | 18.3 |
| 2014 |) [| 140 | - | 140 | \$4,461,833 | \$232,100 | \$4,229,733 | 19.2 |
| 2015 | | 136 | - | 136 | \$4,505,386 | \$222,549 | \$4,282,838 | 20.2 |
| 2016 | 6 | - | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - | - | - |
| Total | | 279 | | 279 | \$9,059,143 | \$459,674 | \$8,599,469 | 19.7 |

http://www.businesswire.com/news/home/20140206005031/en/Sungage-Financial-CEFIA-Mosaic-Announce-5-Million#.VgRTgVIXL4Y

¹⁷⁰ http://www.ctgreenbank.com/ct-solar-loan-partner-graduates-connecticut-green-bank/

¹⁷¹ All projects that receive an RSIP incentive are required to do an energy audit/assessment.

¹⁷² Includes incentives, interest rate buydowns and loan loss reserves.

TABLE 156. CT SOLAR LOAN PROJECT CAPACITY, GENERATION AND SAVINGS BY FY CLOSED

| Fiscal Year | Installed Capacity (kW) | Expected Annual Generation (kWh) | Expected Lifetime Savings or Generation (MWh) | Annual Saved / Produced (MMBtu) | Lifetime Saved / Produced (MMBtu) | Annual Cost Savings | Lifetime Cost Savings |
|----------------|-------------------------------|---|---|--|--|---------------------------|-----------------------------|
| 2012 | - | - | - | - | - | - | - |
| 2013 | 17.0 | 19,407 | 485 | 66 | 1,655 | \$3,596 | \$89,910 |
| 2014 | 1,107.9 | 1,261,626 | 31,541 | 4,305 | 107,617 | \$167,832 | \$4,195,800 |
| 2015 | 1,067.2 | 1,215,364 | 30,384 | 4,147 | 103,671 | \$163,037 | \$4,075,920 |
| 2016 | - | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - | . • |
| Total | 2,192.1 | 2,496,398 | 62,410 | 8,518 | 212,943 | \$334,465 | \$8,361,630 |

TABLE 157. CT SOLAR LOAN PROJECT AVERAGES BY FY CLOSED

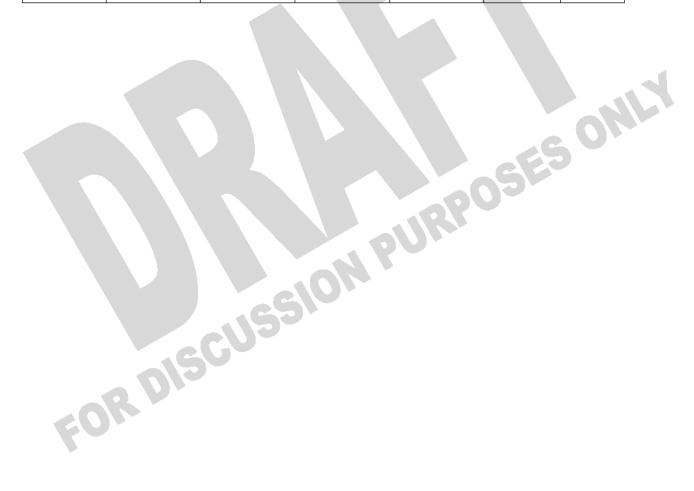
| Fiscal Year | Total Average Investment | Average Amount Financed | Average Installed Capacity (kW) | Average Annual Saved / Produced (MMBtu) | Average Finance Term (months) | Average Finance Rate | Average DTI | Average FICO Score |
|----------------|--------------------------------|-------------------------------|--|---|--|----------------------------|----------------|--------------------------|
| 2012 | - | - | - | 9-1 | _ | - | - | - |
| 2013 | \$30,641 | \$19,658 | 5.7 | 22 | 180 | 5.58 | 0 | 758 |
| 2014 | \$31,870 | \$19,819 | 7.9 | 31 | 180 | 5.57 | 0 | 771 |
| 2015 | \$33,128 | \$22,942 | 7.8 | 30 | 180 | 3.34 | 0 | 771 |
| 2016 | - | | - | - | - | - | - | - |
| 2017 | (| C | - | - | - | - | - | - |
| 2018 | - 1 | - | - | - | - | - | - | - |
| 2019 | | _ | - | - | - | - | - | - |
| 2020 | 0/2- | - | - | - | - | - | - | - |
| Total | \$32,470 | \$21,340 | 7.9 | 31 | 180 | 4.48 | 0 | 771 |

TABLE 158. CT SOLAR LOAN PROJECT APPLICATION YIELD 173 BY FY RECEIVED

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¹⁷³ Applications received are applications submitted to Sungage Financial (servicer of the CT Solar Loan) for credit approval. Applications approved are applications that have met the credit requirements for the program and can move to loan closing, pending formal technical approval of the solar equipment by the Residential Solar Investment Program. Applications withdrawn are applications that have been cancelled by the submitter due to the project not moving forward. Applications denied are applications that are not approved because the customer does not meet underwriting requirements.

| Fiscal | Applications | Applications | Applications | Applications | Approved | Denied |
|--------|--------------|--------------|--------------|--------------|----------|--------|
| Year | Received | Approved | Withdrawn | Denied | Rate | Rate |
| 2012 | - | - | - | - | - | - |
| 2013 | 14 | 7 | 5 | 2 | 86% | 14% |
| 2014 | 284 | 163 | 54 | 67 | 76% | 24% |
| 2015 | 164 | 109 | 37 | 18 | 89% | 11% |
| 2016 | - | - | - | - | - | - |
| 2017 | - | - | - | - | - | - |
| 2018 | - | - | - | - | - | - |
| 2019 | - | - | - | - | - | - |
| 2020 | - | - | - | - | - | - |
| Total | 462 | 279 | 96 | 87 | 81% | 19% |



Area Median Income Band Penetration

For a breakdown of the CT Solar Loan volume and investment by census tracts categorized by Area Median Income bands – see Table 159. It should be noted that the CT Solar Loan is not an income-targeted program

Table 159. CT Solar Loan Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands by FY Closed¹⁷⁴

| MSA AMI Project Capacity | | | | | | | | | Total Owner | % Owner | Project Units | Total | Watts / |
|--|------|-----------------|-------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|-------------------------------------|--|-------------------------------------|-----------------------------------|--|
| 60% 0 0% \$0 0% \$0 0% 0 0% 0 0% 0 | scal | MSA AMI Band | #of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Occupied 1- 4 Unit Households | Occupied 1- 4 Unit Household Distribution | Owner Occupied 1- 4 Unit Households | Owner Occupied 1-4 Unit Household | Owner Occupied 1-4 Unit Household |
| 0% 0 \$ \$ 0 12% 0 00% 0 0% \$ 10,640 12% 0 0 120% 0 0% \$ 0 17% 0 0 120% 0 0% \$ \$ 0 0% 0 0 0 120% 0 0% \$ \$ 0 0% 0 <td< td=""><td>2012</td><td>%09></td><td>0</td><td>%0</td><td>0.0</td><td>%0</td><td>0\$</td><td>%0</td><td>61,168</td><td>%/</td><td>0.0</td><td>\$0.00</td><td>0.0</td></td<> | 2012 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 61,168 | %/ | 0.0 | \$0.00 | 0.0 |
| 80%-100% 0 \$0 \$0 \$0 17% 0 100%-120% 0 0% \$0 151.346 17% 0 100%-120% 0 0% \$0 0% 51.386 26.98 0 >1200%-120% 0 0% 0% 0% 50.196 40% 0 1200%-120% 0 0 0% 0% 0% 40% 0 4c60%-120% 0 | 112 | %08-%09 | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 101,640 | 12% | 0.0 | \$0.00 | 0.0 |
| 100%-120% 0 \$0 \$0 \$0 \$0 0% \$0 0% \$0 00 00 \$0 < | 112 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 151,346 | 17% | 0.0 | \$0.00 | 0.0 |
| Total 0 \$60 <td>12</td> <td>100%-120%</td> <td>0</td> <td>%0</td> <td>0.0</td> <td>%0</td> <td>0\$</td> <td>%0</td> <td>216,988</td> <td>25%</td> <td>0.0</td> <td>\$0.00</td> <td>0.0</td> | 12 | 100%-120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 216,988 | 25% | 0.0 | \$0.00 | 0.0 |
| Total 0 0% \$0 0% \$0 0% 0% 0% 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0% 00 0 | 112 | >120% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 350,196 | 40% | 0.0 | \$0.00 | 0.0 |
| <00% 0 \$0 \$0 \$0 \$0 0< | 12 | Total | 0 | %0 | 0.0 | %0 | \$0 | %0 | 881,338 | 100% | 0.0 | \$0.00 | 0.0 |
| 60%-80% 1 33% 0.0 31% \$33.775 37% 109,189 12% 0.0 80%-100% 0 0% \$0 \$0 \$0 \$0 0.0 0 | 113 | %09> | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 59,494 | 7% | 0.0 | \$0.00 | 0.0 |
| 80%-100% 0 \$0 \$0 \$0 17% 0.0 0 100%-120% 1 33% 0.0 47% \$38,249 42% 203,157 23% 0.0 >-120% 1 33% 0.0 22% \$19,900 22% 351,633 40% 0.0 Total 3 100% 0.0 100% \$91,924 100% 87,673 40% 0.0 460%-80% 3 100% 0.0 0% \$93,948 0% 57,673 7% 0.0 80%-100% 3 2% 0.0 2% \$89,796 2% 103,934 12% 0.0 80%-100% 24 17% 0.2 \$89,796 2% 104,038 17% 0.0 100%-120% 49 35% 0.4 \$1,624,516 36% 209,561 24% 0.2 100%-120% 63 45% 0.5 47% \$2,100,345 47% 868,476 0.0 <t< td=""><td>13</td><td>%08-%09</td><td>-</td><td>33%</td><td>0.0</td><td>31%</td><td>\$33,775</td><td>37%</td><td>109,189</td><td>12%</td><td>0.0</td><td>\$0.31</td><td>0.0</td></t<> | 13 | %08-%09 | - | 33% | 0.0 | 31% | \$33,775 | 37% | 109,189 | 12% | 0.0 | \$0.31 | 0.0 |
| 100%-120% 1 33% 0.0 47% \$38,249 42% 203,157 23% 0.0 6.2% \$51,633 40% 0.0 0.0 6.0% \$1,900 22% \$51,633 40% 0.0 0.0 0.0 0.0 100% \$2% \$1,633 40% 0.0 0.0 0.0 0.0 \$1,624 100% 87,673 7% 0.0 0.0 0.0 \$2% \$1,624,516 2% 103,934 12% 0.0< | 5 | 80%-100% | 0 | %0 | 0.0 | %0 | 0\$ | %0 | 150,603 | 17% | 0.0 | \$0.00 | 0.0 |
| Total 3 40% 6 6 5 5 100% 5 6 6 6 6 6 6 6 6 6 6 6 6 7 6 6 7 6 6 7 6 6 7 6 7 7 6 6 6 6 7 | 13 | 100%-120% | - | 33% | 0.0 | 47% | \$38,249 | 42% | 203,157 | 23% | 0.0 | \$0.19 | 0.0 |
| Total 3 100% 0.0 \$91,924 100% \$74,076 100% 0.0 \$91,924 100% 57,673 7% 0.0 \$0.0 \$9,948 0% 57,673 7% 0.0 0.0 \$9,948 0% 57,673 7% 0.0 0.0 0.0 \$9,948 0% 57,673 7% 0.0 0.0 0.0 \$89,796 2% 10% 12% 0.0 | 13 | >120% | - | 33% | 0.0 | 22% | \$19,900 | 22% | 351,633 | 40% | 0.0 | \$0.06 | 0.0 |
| 60% 1 1% 0.0 \$9,948 0% 57,673 7% 0.0 0.0 \$9,948 0% 57,673 7% 0.0 0.0 0.0 \$89,796 2% 103,934 12% 0.0 | 13 | Total | က | 100% | 0.0 | 100% | \$91,924 | 100% | 874,076 | 100% | 0.0 | \$0.11 | 0.0 |
| 60%-80% 3 2% \$89,796 2% 103,934 12% 0.0 \$80,796 2% 103,934 12% 0.0 0.0 0.0 \$80,796 14% 149,038 17% 0.2 0.0 0.0 0.0 0.0 \$1,624,516 36% 209,561 24% 0.2 | 14 | %09> | - | 1% | 0.0 | %0 | \$9,948 | %0 | 57,673 | %2 | 0.0 | \$0.17 | 0.0 |
| 80%-100% 24 17% 0.2 14% \$637,228 14% 14%,038 17% 0.2 | 14 | %08-%09 | က | 2% | 0.0 | 2% | \$89,796 | 2% | 103,934 | 12% | 0.0 | \$0.86 | 0.2 |
| 100%-120% 49 35% 0.4 37% \$1,624,516 36% 209,561 24% 0.2 0.2 >120% 63 45% 0.5 47% \$2,100,345 47% 348,270 40% 0.2 0.2 Total 140 100% 1.1 100% \$4,461,833 100% 868,476 100% 0.2 0.2 660% 1 1% 0.0 \$22,510 0% 64,361 7% 0.0 0.0 | 14 | 80%-100% | 24 | 17% | 0.2 | 14% | \$637,228 | 14% | 149,038 | 17% | 0.2 | \$4.28 | 1.1 |
| >120% 63 45% 0.5 47% \$2,100,345 47% 348,270 40% 0.2 Total 140 100% 1.1 100% \$4,461,833 100% 868,476 100% 0.2 <60% 1 1% 0.0 \$22,510 0% 64,361 7% 0.0 | 14 | 100%-120% | 49 | 35% | 0.4 | 37% | \$1,624,516 | 36% | 209,561 | 24% | 0.2 | \$7.75 | 2.0 |
| Total 140 100% 1.1 100% \$4,461,833 100% 868,476 100% 100% 0.2 <60% | 14 | >120% | 63 | 45% | 0.5 | 47% | \$2,100,345 | 47% | 348,270 | 40% | 0.2 | \$6.03 | 1.5 |
| <60% 1 1% 0.0 0% \$22,510 0% 64,361 7% 0.0 | 14 | Total | 140 | 100% | 1.1 | 100% | \$4,461,833 | 100% | 868,476 | 100% | 0.2 | \$5.14 | 1.3 |
| | 115 | %09 > | - | 1% | 0.0 | %0 | \$22,510 | %0 | 64,361 | 4.2 | 0.0 | \$0.35 | 0.1 |

¹⁷⁴ Excludes projects in unknown bands.

| Fiscal Year | MSA AMI Band | #of Project Units | % Project Distribution | Installed Capacity (MW) | % MW Distribution | Total Investment | % Investment Distribution | Total Owner Occupied 1- 4 Unit Households | % Owner Occupied 1- 4 Unit Household Distribution | Project Units /1,000 Own er Occupied 1- 4 Unit | Total Investment / Owner Occupied 1-4 Unit Household | Watts / Owner Occupied 1-4 Unit Household |
|----------------|-----------------|-------------------------|---------------------------|-------------------------------|----------------------|---------------------|---------------------------------|--|---|--|---|---|
| | %08-%09 | 10 | %2 | 0.1 | %9 | \$286,560 | %9 | 96,305 | 11% | 0.1 | \$2.98 | 0.7 |
| | 80%-100% | 18 | 13% | 0.1 | 13% | \$603,685 | 13% | 164,873 | 19% | 0.1 | \$3.66 | 0.8 |
| | 100%-120% | 30 | 22% | 0.2 | 23% | \$1,008,757 | 22% | 184,613 | 21% | 0.2 | \$5.46 | 1.3 |
| | >120% | 77 | 27% | 9.0 | 58% | \$2,583,874 | 21% | 352,621 | 41% | 0.2 | \$7.33 | 1.7 |
| | Total | 136 | 100% | 1.1 | 100% | \$4,505,386 | 100% | 862,773 | 100% | 0.2 | \$5.22 | 1.2 |
| | %09> | 2 | 1% | 0.0 | %0 | \$32,458 | %0 | 69,769 | %2 | 0.0 | \$0.53 | 0.1 |
| | %08-%09 | 14 | 2% | 0.1 | 4% | \$410,131 | 2% | 99,220 | 12% | 0.1 | \$4.13 | 6.0 |
| | 80%-100% | 42 | 15% | 0.3 | 14% | \$1,240,913 | 14% | 165,331 | 19% | 0.3 | \$7.51 | 1.8 |
| | 100%-120% | 08 | %67 | 7.0 | 30% | \$2,671,522 | %67 | 187,463 | 22% | 0.4 | \$14.25 | 3.5 |
| | >120% | 141 | 21% | 1.1 | 52% | \$4,704,119 | 25% | 345,311 | 40% | 0.4 | \$13.62 | 3.3 |
| | Total | 279 | 100% | 2.2 | 100% | \$9,059,143 | 4001 | 858,094 | 100% | 0.3 | \$10.56 | 2.6 |
| | | | | | | | | | | | | |

Table 160. CT Solar Loan Activity in Metropolitan Statistical Area (MSA) Area Median Income (AMI) Bands Above or Below 100% by FY Closed 175

| | | # Pr(| # Project Units | | | | MM | | | Total Investment | stment | |
|--------|-------|-------|-----------------|---------|-------|------|---------|---------|-------------|------------------|-----------|---------|
| | | Over | 100% or | % at | | Over | 100% or | % at | | | 100% or | % at |
| Fiscal | | 100% | Below | 100% or | | 100% | | 100% or | | Over | Below | 100% or |
| Year | Total | AMI | AMI | Below | Total | AMI | AMI | Below | Total | 100% AMI | AMI | Below |
| 2012 | 0 | 0 | 0 | %0 | 0.0 | 0.0 | 0.0 | %0 | \$0 | \$0 | \$0 | %0 |
| 2013 | 3 | 2 | - | 33% | 0.0 | 0.0 | 0.0 | 31% | \$91,924 | \$58,149 | \$33,775 | 37% |
| 2014 | 140 | 112 | 28 | 20% | 1.1 | 6.0 | 0.2 | 16% | \$4,461,833 | \$3,724,861 | \$736,971 | 17% |
| 2015 | 136 | 107 | 59 | 21% | 1.1 | 6.0 | 0.2 | 20% | \$4,505,386 | \$3,592,631 | \$912,755 | 20% |
| 2016 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ı | ı | 1 | 1 |
| 2017 | 1 | ı | 1 | ı | 1 | 1 | ı | ı | ı | I | ı | 1 |
| 2018 | 1 | ı | 1 | ı | 1 | 1 | ı | 1 | ı | I | ı | 1 |
| | | | | | | | | | | | | |

 $^{^{175}}$ Excludes projects in unknown bands.

| 1 | - | 19% |
|------|------|-------------|
| 1 | - | \$1,683,502 |
| ı | _ | \$7,375,641 |
| 1 | - | \$9,059,143 |
| ı | _ | 18% |
| ı | 1 | 0.4 |
| ı | - | 1.8 |
| ı | 1 | 2.2 |
| 1 | - | 21% |
| 1 | 1 | 58 |
| ı | - | 221 |
| ı | - | 279 |
| 2019 | 2020 | Total |

Distressed Community Penetration

For a breakdown of the CT Solar Loan project volume and investment by census tracts categorized by Distressed Communities – see Table 161. It should be noted that the CT Solar Loan is not an income-targeted program.

TABLE 161. CT SOLAR LOAN ACTIVITY IN DISTRESSED COMMUNITIES BY FY CLOSED

| Г | | | | | | | | | | | | | | | | |
|---|---|---------|---------|-----------|----------|----------|-----------|-----------|-------------|-------------|-----------|----------------|-------------|-------------|-------------|-------------|
| | Watts / Total Household | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 1.0 | 8.0 | 0.3 | 1.0 | 8.0 | 0.7 | 2.0 | 1.6 |
| | Total Investment/ Total Household | \$0.00 | \$0.00 | \$0.00 | \$0.17 | \$0.02 | \$0.07 | \$1.82 | \$3.94 | \$3.29 | \$1.14 | \$4.33 | \$3.33 | \$3.01 | \$8.36 | \$6.65 |
| | Project Units / 1,000 Total Hou seholds | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 |
| | % Total Household Distribution | 33% | %19 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 31% | %69 | 100% | 32% | %89 | 100% |
| | Total Households | 447,962 | 912,222 | 1,360,184 | 426,564 | 929,285 | 1,355,849 | 416,415 | 939,791 | 1,356,206 | 423,559 | 929,024 | 1,352,583 | 435,595 | 926,160 | 1,361,755 |
| | % Investment Distribution | %0 | %0 | %0 | %82 | 22% | 100% | 17% | 83% | 100% | 11% | %68 | 100% | 14% | %98 | 100% |
| | Total Investment | \$0 | 80 | 0\$ | \$72,024 | \$19,900 | \$91,924 | \$757,309 | \$3,704,523 | \$4,461,833 | \$483,091 | \$4,022,296 | \$4,505,386 | \$1,312,424 | \$7,746,719 | \$9,059,143 |
| | % MW Distribution | %0 | %0 | %0 | %82 | 22% | 100% | 18% | 82% | 100% | 11% | %68 | 100% | 15% | %58 | 100% |
| | Installed Capacity (MW) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 6.0 | 1.1 | 0.1 | 1.0 | 17 | 0.3 | 61 | 2.2 |
| | % Project Distribution | %0 | %0 | %0 | %/9 | 33% | 100% | 19% | 81% | 100% | 13% | %/8 | 100% | 16% | 84% | 100% |
| | # of Project Units | 0 | 0 | 0 | 2 | 1 | ε | 56 | 114 | 140 | 18 | 118 | 136 | 46 | 233 | 279 |
| | Distres sed | sək | 0N | Total | Yes | ON. | Total | sək | °N | Total | sək | o _N | Total | Yes | oN | Total |
| | Fiscal Year | 2012 | 2012 | 2012 | 2013 | 2013 | 2013 | 2014 | 2014 | 2014 | 2015 | 2015 | 2015 | Total | Total | Total |

Societal Impacts

Ratepayers in Connecticut continue to enjoy the societal benefits of the CT Solar Loan Program despite its closure. Over the course of its existence, the program has led to the creation of 132 job years, avoided the lifetime emission of 35,015 tons of carbon dioxide, 46,896 pounds of nitrous oxide, 53,064 pounds of sulfur oxide, and 3,131 pounds of particulate matter as illustrated by Table 162and Table 164. The Solar loan is estimated to have generated \$463,746 million in tax revenue for the state of CT as shown in Table 163. The lifetime economic value of the public health impacts of this program are estimated between \$1.2 and 2.7 million as illustrated in Table 165.

TABLE 162. CT SOLAR LOAN JOB YEARS SUPPORTED BY FY CLOSED

| Fiscal Year | Direct Jobs | Indirect and Induced Jobs | Total Jobs |
|----------------|----------------|------------------------------------|---------------|
| 2012 | - | - | = |
| 2013 | 1 | 1 | 1 |
| 2014 | 25 | 40 | 65 |
| 2015 | 25 | 41 | 66 |
| 2016 | - | - | - |
| 2017 | - | - | - / |
| 2018 | - | - | - |
| 2019 | - | - | - |
| 2020 | - | - | - |
| Total | 51 | 82 | 132 |

URPOSES ONLY TABLE 163. CT SOLAR LOAN TAX REVENUES GENERATED BY FY CLOSED

| Fiscal Year | Individual Income Tax Revenue Generated | Corporate Tax Revenue Generated | Sales Tax Revenue Generated | Total Tax Revenue Generated |
|----------------|---|--|-----------------------------------|-----------------------------------|
| 2012 | \$0 | \$0 | \$0 | \$0 |
| 2013 | \$2,350 | \$2,336 | \$0 | \$4,686 |
| 2014 | \$114,374 | \$113,724 | \$0 | \$228,098 |
| 2015 | \$115,810 | \$115,152 | \$0 | \$230,962 |
| 2016 | \$0 | \$0 | \$0 | \$0 |
| 2017 | \$0 | \$0 | \$0 | \$0 |
| 2018 | \$0 | \$0 | \$0 | \$0 |
| 2019 | \$0 | \$0 | \$0 | \$0 |
| 2020 | \$0 | \$0 | \$0 | \$0 |
| Total | \$232,534 | \$231,212 | \$0 | \$463,746 |

TABLE 164. CT SOLAR LOAN AVOIDED EMISSIONS BY FY CLOSED

| | | sions Avoided tons) | NOx Em Avoided | | SOx Emissions Avoided (pounds) | | PM 2.5 (pounds) | |
|----------------|--------|------------------------|-------------------|----------|-----------------------------------|----------|-----------------|----------|
| Fiscal Year | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime | Annual | Lifetime |
| 2012 | _ | _ | - | - | - | - | - | - |
| 2013 | 10 | 277 | 17 | 417 | 22 | 537 | 0 | 24 |
| 2014 | 706 | 17,541 | 980 | 24,519 | 1,163 | 29,008 | 51 | 1,583 |
| 2015 | 686 | 17,200 | 879 | 21,964 | 939 | 23,519 | 44 | 1,518 |
| 2016 | _ | _ | - | - | - | - | _ | _ |
| 2017 | - | - | - | \ | - | - | - | - |
| 2018 | - | _ | - | - | _ | - | - | _ |
| 2019 | - | _ | - | - | - | - | _ | - |
| 2020 | - | _ | - | - | - | - | _ | _ |
| Total | 1,402 | 35,018 | 1,876 | 46,900 | 2,124 | 53,064 | 95 | 3,125 |

TABLE 165. CT SOLAR LOAN PUBLIC HEALTH IMPACT BY FY CLOSED

| Fiscal | Ar | nnual | Life | time |
|--------|----------|-----------|-------------|-------------|
| Year | Low | High | Low | High |
| 2012 | - | - | | _ |
| 2013 | \$377 | \$850 | \$9,413 | \$21,251 |
| 2014 | \$24,476 | \$55,259 | \$611,889 | \$1,381,481 |
| 2015 | \$23,578 | \$53,233 | \$589,451 | \$1,330,823 |
| 2016 | - | - | - | 100 |
| 2017 | - | - | - | 11/2 |
| 2018 | - | - | |) O . |
| 2019 | - | - | 6-19 | - |
| 2020 | - | - | -101 | - |
| Total | \$48,430 | \$109,342 | \$1,210,753 | \$2,733,555 |

Financing Program

Launched in March of 2013, the CT Solar Loan provided up to \$55,000 per loan, with 15-year maturity terms and affordable 6.49% interest rates (including 0.25% ACH payment benefit) to provide homeowners with the upfront capital they needed to finance residential solar PV projects. The program ended in FY2015.

The program involved a financing product developed in partnership with Sungage Financial¹⁷⁶ that used credit enhancements (i.e., \$300,000 loan loss reserve and \$168,000 interest rate buydowns)¹⁷⁷ in combination with a \$5 million warehouse of funds and \$1 million of subordinated debt from the Connecticut Green Bank. Through this product, the Connecticut Green Bank lowered the barriers to Connecticut homeowners seeking to install solar PV installations thus

¹⁷⁶ Sungage Financial (http://www.sungagefinancial.com/) won a competitive RFP through the Connecticut Green Bank's Financial Innovation RFP to support a residential solar PV loan program

¹⁷⁷ From repurposed American Recovery and Reinvestment Act funds

increasing demand while at the same time reducing the market's reliance on subsidies being offered through the RSIP. The CT Solar Loan was the first dedicated residential solar loan product not secured by a lien on the home or tied to a particular PV equipment OEM supplier. As a loan, capital provided to consumers for the CT Solar Loan is returned to the Connecticut Green Bank – it is not a subsidy. In fact, approximately 80% of the loan value was sold to retail investors through a "crowd funding" platform or to institutional investors without recourse to the Connecticut Green Bank. The financial structure of the CT Solar Loan product includes origination, 178 servicing, 179 and financing features in combination with the support of the Connecticut Green Bank.

Financial Performance

To date there has been 1 default with an original principal balance of \$26,698 or 0.44% of the portfolio, and as of 6/30/2020 there are 3 delinquencies with original principal balances totaling \$90,377 or 1.50% of the portfolio.

The household customers that accessed the CT Solar Loan since its launch in 2013 had varying credit scores – see Table 166.

TABLE 166. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE CT SOLAR LOAN BY FY CLOSED

| Fiscal Year | Unknown | 580-599 | 600-639 | 640-679 | 680-699 | 700-719 | 720-739 | 740-779 | 780+ | Grand Total |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|------|----------------|
| 2012 | - | - | - | Ī | - | | | - | _ | - |
| 2013 | - | - | - | 1 | _ | - | 7 | 1 | 1 | 3 |
| 2014 | _ | _ | - | - | 5 | 7 | 18 | 47 | 63 | 140 |
| 2015 | - | - | - | - | 6 | 8 | 15 | 42 | 65 | 136 |
| Total | - | - | | - | 11 | 15 | 34 | 90 | 129 | 279 |
| | | | | | 4% | 5% | 12% | 32% | 46% | 100% |
| | ¢0 | RD | SCI | 729 | | | | | | |

¹⁷⁸ Sungage Financial in partnership with local contractors

¹⁷⁹ Concord Servicing Corporation

Projects 70 60 50 CreditRange ▼ **680-699** 40 700-719 30 720-739 20 740-779 **780+** 10 0 2013 2014 2015 Solar Loan + -Or

FIGURE 14. CREDIT SCORE RANGES OF HOUSEHOLD CUSTOMERS USING THE CT SOLAR LOAN BY FY CLOSED

Marketing

To accelerate the deployment of residential solar PV through the RSIP and the uptake of the CT Solar Loan financing product, the Connecticut Green Bank implemented Solarize Connecticut. Green Bank Solarize programs are designed to use a combination of group purchasing, time-limited offers, and grassroots outreach, while local clean energy advocates volunteer and coordinate with their towns to help speed the process – see Table 167.

:5

TABLE 167. NUMBER OF PROJECTS, INVESTMENT, AND INSTALLED CAPACITY THROUGH GREEN BANK SOLARIZE CONNECTICUT FOR THE CT SOLAR LOAN FINANCING PRODUCT

| | # of Projects | Total Investment | Installed Capacity (MW) |
|--------------|---------------|------------------|-------------------------|
| Solarize | 168 | \$5,209,925 | 1.3 |
| Not Solarize | 111 | \$3,849,218 | 0.9 |
| Total | 279 | \$9,059,143 | 2.2 |
| % Solarize | 60% | 58% | 59% |

The Green Bank Solarize Connecticut program provided a significant marketing channel to catalyze origination for the CT Solar Loan comprising nearly 60 percent of the total projects, investment, and installed capacity.

7. Appendix

Terms and Definitions

The following is meant to serve as guide to the reader of common terms used in this section and to illustrate how the Green Bank defines these terms:

Applications Received - This is the number of applications submitted to CGB seeking an incentive or financing during a specific period regardless of whether they were approved or rejected. The specific metric is calculated by subtracting the total number of applications received at the beginning of the time period from the total number of applications received at the end of the time period. This indicates interest in our program.

Approved - An approved project is one whose application has been reviewed by Green Bank staff and has been authorized to proceed to the funding stage, involving the project's requested CGB financing and/or incentives. The number of approvals in one period is an indicator of potential completed projects in subsequent periods.

Closed - A "Closed" project is one that has been approved by the CGB and for which CGB financing and/or incentives have been mobilized. For RSIP projects, once a project is approved, it is considered closed. This status also suggests that physical work is in progress or is imminent.

Completed – is a project that is generating or saving energy and has been deemed completed by the Green Bank and contractors based on program specific standards.

Gross Investment - This is the total system costs for all clean and renewable energy installations and/or the total costs of all energy efficiency projects during the specified time period, regardless of how much of the projects are being financed. Closing costs for CGB financing are not included in this total.

Principal Amount Financed - This is the total amount of money that is being borrowed regardless of whether it is wholly or partially from the CGB. For some programs, this amount will be greater than the gross investment, to include closing costs that are rolled into the loans. Principal Amount Financed equals Gross Investment plus closing costs that are financed, minus any part of the projects paid upfront by the borrowers: Principal Amount Financed = Gross Investment + Fees Financed - Owners' Contributions

This should also equal CGB investment plus third party investment:

 $Principal\ Amount\ Financed = CGB\ Investment + Third\ Party\ Financing$

CGB Investment - Green Bank investment activity is broken down into two categories, presented below as separate metrics.

CGB Investment = CGB Incentives + CGB Financing

CGB Incentives - CGB incentives are funds that are not intended to be repaid by the recipient and are used to reduce the cost of a specific product or technology. At present, RSIP is the only active incentive program administered by CGB.

CGB Financing - CGB financing includes the total funds deployed by the Green Bank during the specified time period with the intention either that the funds will be repaid or to bolster the creditworthiness of borrowers. CGB Financing is the sum of the types of financing below, each of which is its own metric.

CGB Financing = CGB Loans and Leases + CGB Credit Enhancements

CGB Loans and Leases - Loans and leases are the types of CGB financing in which capital is directly lent to fund projects. It does not include third party lending.

CGB Credit Enhancements - Credit enhancements involve the deployment of CGB capital to bolster the credit of borrowers. This financing category is comprised of the three categories of funds below, each as its own metric.

CGB Credit Enhancements = Loan Loss Reserves + Guarantees + Interest Rate Buy-Downs

Loan Loss Reserves - Loan Loss Reserves are capital that the CGB has segregated as part of a program to ensure against losses incurred by participating lenders due to the failure of borrowers to repay loans.

Guarantees - Guarantees reflect a specified dollar commitment that CGB has made to external lenders for repayment of specific transactions in the event one or more borrowers fail to repay the lenders.

Interest Rate Buy-Downs - Interest rate buy-downs involve the deployment of CGB capital by paying a portion of the interest on borrowers' loans to decrease their cost of capital.

Third Party Financing - This metric captures the amount of project financing that is provided by parties other than the CGB and project owner. It is this type of financing that the CGB seek s to grow in relation to its own financing.

Leverage Ratio

This metric presents the relationship between private financing and CGB's direct financing.

Leverage Ratio = Gross Investment / CGB Investment

Mobilization Ratio

This metric presents the relationship between private financing and CGB's direct investment (both financing and incentives).

Mobilization Ratio = Third-Party Financing Amount / CGB Investment

Community Activity Table

See the Municipality Tables in here. 180

Contractor Activity Table

See the Contractor Tables in here. 181

Trained Contractor Table

See the Trained Contractor table in here. 182

Calculations and Assumptions

TABLE 168. CAPACITY FACTORS AND EXPECTED USEFUL LIFE (EUL) BY TECHNOLOGY

| Technology | Capacity Factor | EUL |
|---------------|-----------------|-----|
| AD | 0.80 | 15 |
| CHP | 0.90 | 15 |
| EE | 0.0 | 12 |
| Fuel Cell | 0.90 | 10 |
| Geothermal | 0.0 | 25 |
| Hydro | 0.49 | 25 |
| PV | 0.13 | 25 |
| PV/Biomass | 0.13 | 25 |
| Solar Thermal | 0.0 | 20 |
| Wind | 0.18 | 15 |

TABLE 169. JOB YEAR FACTORS BY YEAR APPROVED BY TECHNOLOGY

| | | 2009 Factors - Approved prior to 6/30/2016 | | | 2016 Factors - Approved after 7/1/2016 | | | 2018 Factors - Approved after 7/1/2018 | | |
|-----------------|-------------------------|--|---|-------------------------|---|--|-------------------------|---|---|--|
| | Direc t Job Years | Indirect and Induce d Jobs | Total Job Years per \$1M Invested | Direc t Job Years | Indirect and Induced Jobs | Total Job Years per \$1M Investe d | Direc t Job Years | Indirect and Induce d Jobs | Total Job Years per \$1M Investe d | |
| | | | | Re | newable En | ergy | | | | |
| Fuel Cell | | | | | | | | | | |
| R&D/Engineering | 2.9 | 4.6 | 7.5 | 2.9 | 3.8 | 6.7 | 2.8 | 3.7 | 6.5 | |
| Fuel Cell | | | | | | | | | | |
| Manufacturing | 4.8 | 11.0 | 15.8 | 4.9 | 6.4 | 11.3 | 3.9 | 5.8 | 9.7 | |
| Solar PV - | | | | | | | | | | |
| Residential | 5.9 | 9.4 | 15.3 | 3.9 | 5.1 | 9.0 | 3.9 | 5.1 | 9.0 | |
| Solar PV - Non- | | | | | | | | | | |
| Residential | 3.4 | 5.4 | 8.8 | 3.1 | 4.0 | 7.1 | 3.1 | 4.0 | 7.1 | |

URPOSES ONLY

¹⁸⁰ http://www.ctgreenbank.com/fy17-cafr-nfs-appendix/

¹⁸¹ http://www.ctgreenbank.com/fy17-cafr-nfs-appendix/

¹⁸² http://www.ctgreenbank.com/fy17-cafr-nfs-appendix/

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| | 2009 Factors - Approved prior to 6/30/2016 | | | | Factors - Ap after 7/1/20 | | 2018 Factors - Approved after 7/1/2018 | | |
|--|--|---------------------------------------|---|-------------------------|------------------------------------|--|---|-------------------------------------|---|
| | Direc t Job Years | Indirect and Induce d Jobs | Total Job Years per \$1M Invested | Direc t Job Years | Indirect and Induced Jobs | Total Job Years per \$1M Investe d | Direc t Job Years | Indirect and Induce d Jobs | Total Job Years per \$1M Investe d |
| | | | | Re | newable En | ergy | | | |
| Ductless Split Heat | | | | | | | | | |
| Pump | 6.7 | 10.7 | 17.4 | 6.7 | 8.7 | 15.4 | 6.5 | 8.5 | 15.0 |
| Geothermal | 8.3 | 13.3 | 21.6 | 6.7 | 8.7 | 15.4 | 6.7 | 8.7 | 15.4 |
| Solar Thermal | 7.6 | 12.2 | 19.8 | 5.6 | 7.3 | 12.9 | 5.6 | 7.3 | 12.9 |
| Wind Installation | 6.2 | 9.9 | 16.1 | 6.2 | 8.0 | 14.2 | 5.8 | 7.6 | 13.4 |
| Hydro Installation | 6.2 | 9.9 | 16.1 | 6.2 | 8.0 | 14.2 | 5.8 | 7.6 | 13.4 |
| EV Charging | | | | | | , | | | |
| Stations - | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | | | |
| Installation | 3.1 | 5.0 | 8.1 | 3.1 | 4.0 | 7.1 | 2.9 | 3.8 | 6.7 |
| Storage Installation | 2.2 | 3.5 | 5.7 | 2.2 | 2.9 | 5.1 | 2.2 | 2.9 | 5.1 |
| Utility Scale Storage | 2.1 | 3.4 | 5.5 | 2.1 | 2.7 | 4.9 | 2.1 | 2.7 | 4.9 |
| AD | 1.9 | 3.0 | 4.9 | 1.9 | 2.5 | 4.4 | 1.9 | 2.5 | 4.4 |
| CHP | 3.9 | 6.2 | 10.1 | 3.9 | 5.0 | 8.9 | 3.9 | 5.0 | 8.9 |
| | | | | Er | ergy Efficie | ency | | | |
| Residential | 12.9 | 20.6 | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Residential Lighting ¹ | 0.0 | 0.0 | 0.0 | 7.7 | 10.0 | 17.7 | 7.5 | 9.7 | 17.2 |
| Residential Home Energy Solutions (HES) Audits | 7.7 | 12.3 | 20.0 | 7.8 | 10.2 | 18.0 | 7.7 | 10.0 | 17.7 |
| (HES) - Audits ¹ Residential HES - | 1.1 | 12.3 | 20.0 | 1.8 | 10.2 | 18.0 | 1.1 | 10.0 | 11.1 |
| Weatherization & HVAC | 0.0 | 0.0 | 0.0 | 5.6 | 7.3 | 12.9 | 5.4 | 7.0 | 12.5 |
| Residential Gas | 0.0 | 0.0 | 0.0 | 5.0 | 7.3 | 12.9 | 5.4 | 1.0 | 12.0 |
| Conversion | 0.0 | 0.0 | 0.0 | 5.6 | 7.3 | 12.9 | 5.4 | 7.0 | 12.5 |
| Small Business Energy Advantage | 9.1 | 14.6 | 23.7 | 6.2 | 8.0 | 14.2 | 5.8 | 7.5 | 13.3 |
| Large Commercial and Industrial | 7.6 | 12.2 | 19.8 | 5.6 | 7.3 | 12.9 | 5.3 | 6.8 | 12.1 |

TABLE 170. RESIDENTIAL SINGLE FAMILY ANNUAL AND LIFETIME MMBTUS AND COST SAVINGS¹⁸³

| Improvement Type | Average Annual Savings MMBTUs | Average Lifetime Savings MMBTUs | Average Annual \$ Savings | Average Lifetime \$ Savings | Average Expected Useful Life (EUL) |
|------------------------|--|--|---------------------------------|-----------------------------------|---|
| Air Source Heat Pump | 10 | 190 | \$41 9 | \$8,374 | 20 |
| Boiler | 18 | 370 | \$372 | \$7,441 | 20 |
| Central AC | 3 | 58 | \$142 | \$2,552 | 18 |
| Ductless Heat Pump | 10 | 176 | \$443 | \$7,975 | 18 |
| Furnace | 15 | 295 | \$357 | \$7,136 | 20 |
| Geothermal Heat Pump | 5 | 104 | \$1,593 | \$31,860 | 20 |
| Heat Pump Water Heater | 6 | 78 | \$215 | \$2,584 | 12 |
| Insulation | 19 | 471 | \$41 3 | \$10,328 | 25 |

⁻

¹⁸³ This chart was developed in in conjunction with utility staff as a guide for the Residential Sector based on utility program savings documents from 2016-17.

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| Other | 7 | 138 | \$154 | \$3,075 | 20 |
|------------------------|----|-----|---------------|----------|------------|
| Solar Hot Water Heater | 6 | 157 | \$150 | \$3,740 | 25 |
| Solar PV ¹ | 27 | 680 | \$1,199 | \$29,970 | 2 5 |
| Water Heater | 5 | 102 | \$78 | \$1,564 | 20 |
| Windows | 8 | 197 | \$1 34 | \$3,362 | 25 |

^{1.} Used for other residential market programs.

TABLE 171. AVERAGE EMISSION RATES BY YEAR COMPLETED BY TECHNOLOGY

| | | | | Year Compl | eted | | |
|----------------------------|--------|-------|-------|------------|-------|-------|--------|
| | 2018 4 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 ⁵ |
| | | | | CO2 ton: | | | |
| AD | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CHP | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| EE Only ¹ | 0.542 | 0.530 | 0.543 | 0.570 | 0.549 | 0.555 | 0.536 |
| Fuel Cell ² | 0.068 | 0.068 | 0.068 | 0.068 | 0.068 | 0.068 | 0.068 |
| Geothermal ² | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 |
| Hydro ² | 0.520 | 0.520 | 0.520 | 0.520 | 0.520 | 0.520 | 0.520 |
| Solar PV ¹ | 0.553 | 0.539 | 0.562 | 0.575 | 0.551 | 0.572 | 0.558 |
| Solar Thermal ² | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 |
| Wind ¹ | 0.539 | 0.528 | 0.537 | 0.575 | 0.562 | 0.558 | 0.523 |
| | | | | NOX poun | ds | | |
| AD | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CHP | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| EE Only ¹ | 0.468 | 0.400 | 0.480 | 0.648 | 0.739 | 0.741 | 0.548 |
| Fuel Cell ² | 0.540 | 0.540 | 0.540 | 0.540 | 0.540 | 0.540 | 0.540 |
| Geothermal ² | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 | 0.335 |
| Hydro ² | 0.430 | 0.430 | 0.430 | 0.430 | 0.430 | 0.430 | 0.430 |
| Solar PV ¹ | 0.535 | 0.463 | 0.575 | 0.697 | 0.790 | 0.859 | 0.689 |
| Solar Thermal ² | 0.453 | 0.453 | 0.453 | 0.453 | 0.453 | 0.453 | 0.453 |
| Wind ¹ | 0.422 | 0.367 | 0.428 | 0.642 | 0.760 | 0.737 | 0.469 |
| | | | | SO2 poun | | | |
| AD | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CHP | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| EE Only ¹ | 0.411 | 0.261 | 0.340 | 0.665 | 0.890 | 0.952 | 0.732 |
| Fuel Cell ² | 0.391 | 0.391 | 0.391 | 0.391 | 0.391 | 0.391 | 0.391 |
| Geothermal ² | 0.297 | 0.297 | 0.297 | 0.297 | 0.297 | 0.297 | 0.297 |
| Hydro ² | 0.390 | 0.390 | 0.390 | 0.390 | 0.390 | 0.390 | 0.390 |
| Solar PV ¹ | 0.460 | 0.303 | 0.411 | 0.698 | 0.956 | 1.107 | 0.911 |
| Solar Thermal ² | 0.411 | 0.411 | 0.411 | 0.411 | 0.411 | 0.411 | 0.411 |
| Wind ¹ | 0.405 | 0.267 | 0.333 | 0.723 | 1.012 | 1.000 | 0.643 |
| | | | | PM2.5 pour | | | |
| AD | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| CHP | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| EE Only ¹ | 0.043 | 0.042 | 0.043 | 0.045 | 0.045 | 0.045 | 0.045 |
| Fuel Cell ² | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Geothermal ² | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Hydro ² | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Solar PV ¹ | 0.047 | 0.046 | 0.049 | 0.050 | 0.050 | 0.050 | 0.050 |
| Solar Thermal ² | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Wind ¹ | 0.041 | 0.040 | 0.039 | 0.044 | 0.044 | 0.044 | 0.044 |

Average Emission Rates from AVERT Model.
 Average Emission Rates from 2007 New England Marginal Emission Rate Analysis.
 PM 2.5 Rates for 2012 - 2014 are unavailable and use the 2015 rates.
 2018 rates are used for projects completed in 2019,2020 and those pending completion.

^{5. 2012} rates are used for projects completed prior to 2012.

TABLE 172. TAX GENERATION RATES PER \$1 MILLION DEPLOYED BY TECHNOLOGY AND PRODUCT STRUCTURE

| | | 2010-2016 | | 2017 and later | | | |
|--|-------------------------------|-------------------------|---------------------|----------------------------------|-------------------------|---------------------|--|
| Technology and Program | Personal Income Tax Factor | Corporate Tax Factor | Sales Tax Factor | Personal Income Tax Factor | Corporate Tax Factor | Sales Tax Factor | |
| Anaerobic Digestion Pilot | \$9,693.00 | - | \$57,231.69 | \$10,823.00 | - | \$57,231.69 | |
| Biomass - CPACE | \$9,693.00 | - | \$57,231.69 | \$10,823.00 | - | \$57,231.69 | |
| CHP - Pilot/Strategic Investments | \$32,436.00 | \$26,599.00 | \$54,741.79 | \$21,703.00 | \$26,599.00 | \$54,741.79 | |
| Energy Efficiency - CPACE | \$39,888.00 | \$19,662.00 | \$58,303.00 | \$28,807.00 | \$19,662.00 | \$58,303.00 | |
| Energy Efficiency - Home Energy Solutions Audits (HES) | \$96,903.00 | \$5,152.00 | \$18,694.00 | \$40,976.00 | \$5,152.00 | \$18,694.00 | |
| Energy Efficiency - Multifamily (non-CPACE) | \$67,491.00 | \$19,662.00 | \$58,303.00 | \$28,807.00 | \$19,662.00 | \$58,303.00 | |
| Energy Efficiency (non HES) - Smart-E | \$67,491.00 | \$22,910.00 | \$30,773.00 | \$28,908.00 | \$22,910.00 | \$30,773.00 | |
| Fuel Cell - Strategic Investments | \$25,182.00 | \$7,108.00 | \$55,195.48 | \$23,489.00 | \$7,108.00 | \$55,195.48 | |
| Geothermal - CPACE | \$43,515.00 | \$26,887.00 | - | \$35,791.22 | \$26,887.00 | - | |
| Geothermal - Smart-E | \$43,515.00 | \$26,887.00 | | \$35,791.00 | \$26,887.00 | - | |
| Hydro - CPACE | \$28,674.00 | \$38,937.00 | \$52,239.00 | \$32,640.00 | \$38,937.00 | \$52,239.00 | |
| Other - CPACE | \$28,674.00 | \$19,662.00 | \$58,303.00 | \$28,807.00 | \$19,662.00 | \$58,303.00 | |
| Solar PV - CEBS | \$15,435.00 | \$41,893.01 | - | \$15,641.23 | \$41,893.01 | - | |
| Solar PV - Clean Energy Communities | \$15,435.00 | \$41,893.01 | - | \$15,641.23 | \$41,893.01 | - | |
| Solar PV - CPACE | \$15,435.00 | \$41,893.01 | - | \$15,641.23 | \$41,893.01 | - | |
| Solar PV - CPACE Onyx | \$15,435.00 | \$16,916.65 | - | \$15,641.23 | \$16,916.65 | - | |
| Solar PV - CPACE SL2 | \$15,435.00 | \$16,916.65 | - | \$15,641.23 | \$16,916.65 | - | |
| Solar PV - CPACE SL3 | \$27,040.50 | \$3,373.73 | - | \$20,878.21 | \$3,373.73 | - | |
| Solar PV - Low Income - PosiGen | \$27,040.50 | \$3,373.73 | - | \$20,878.21 | \$3,373.73 | - | |
| Solar PV - Multi-Family (blank) | \$15,435.00 | \$14,617.00 | - | \$15,641.00 | \$14,617.00 | - | |
| Solar PV - OSDG | \$15,435.00 | \$41,893.01 | - | \$15,641.23 | \$41,893.01 | - | |
| Solar PV - RSIP | \$27,040.50 | \$8,076.60 | - | \$20,878.21 | \$8,076.60 | - | |
| Solar PV - Smart-E | \$27,040.50 | \$5,250.00 | - | \$20,878.21 | \$ 5,250.00 | - | |

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| | 2010-2016 | | | 2017 and later | | |
|---------------------------------------|-------------------------------|-------------------------|---------------------|----------------------------------|-------------------------|---------------------|
| Technology and Program | Personal Income Tax Factor | Corporate Tax Factor | Sales Tax Factor | Personal Income Tax Factor | Corporate Tax Factor | Sales Tax Factor |
| Solar PV - Solar Lease SL2 | \$27,040.50 | \$26,886.74 | - | \$20,878.21 | \$26,886.74 | - |
| Solar PV - Solar Loan | \$27,040.50 | \$26,886.74 | - | \$20,878.21 | \$26,886.74 | - |
| Solar PV - Solar PV - Lease Onyx | \$15,435.00 | \$16,916.65 | | \$15,641.23 | \$16,916.65 | - |
| Solar PV - Solar PV - Lease SL2 | \$15,435.00 | \$16,916.65 | - | \$15,641.23 | \$16,916.65 | - |
| Solar PV - Solar PV - Lease SL3 | \$27,040.50 | \$3,373.73 | - | \$20,878.21 | \$ 3,373.73 | - |
| Solar Thermal - CPACE | \$39,888.00 | \$26,887.00 | - | \$29,826.00 | \$26,887.00 | - |
| Solar Thermal - Smart-E and Pilots | \$39,888.00 | \$26,887.00 | - | \$29,826.00 | \$26,887.00 | |
| Waste Heat Recovery - CPACE | \$39,888.00 | \$26,599.00 | \$54,741.79 | \$21,703.00 | \$26,599.00 | \$54,741.79 |
| Wind - Strategic | \$28,674.00 | \$15,501.00 | \$52,239.00 | \$32,640.00 | \$15,501.00 | \$52,239.00 |

TABLE 173. PUBLIC HEALTH SAVINGS RATES PER TON OF POLLUTANT AVOIDED

| Ton avoided | PM _{2.5} - Low | PM _{2.5} - High | SO _x - Low | SO _x - High | NO _x - Low | NO _x - High | | | | |
|----------------|-------------------------|--------------------------|-----------------------|------------------------|-----------------------|------------------------|--|--|--|--|
| 1 | \$120,799 | \$273,010 | \$28,665 | \$64,794 | \$5,881 | \$13,293 | | | | |
| F | oR DIS | cus | | | | | | | | |

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Memo

To: Audit, Compliance and Governance Committee

From: Bryan Garcia (President and CEO), Karl Johnson (Senior Assistant of Asset Management

and Compliance), and Eric Shrago (Managing Director of Operations)

Date: October 1, 2020

Re: Energy Burden Reduction Methodology (Solar)

Describing the contributions of the projects supported by the Connecticut Green Bank to the green economy helps illustrate the how the continued deployment of clean energy and thus the Green Bank helps society. Through its evaluation efforts in general, and specifically its "Evaluation Framework: Assessing, Monitoring, and Reporting of Program Impacts and Processes," the Green Bank has assembled the following materials:

- Evaluation Framework: Societal Perspective (Residential Energy Burden Reduction Solar PV) – Draft Fact Sheet by the Green Bank
- Evaluation Framework: Societal Perspective (Commercial Energy Burden Reduction Solar PV) – Draft Fact Sheet by the Green Bank

The Green Bank seeks to reasonably estimate the economic benefits to end-use customers of clean energy – or what we call the energy burden reduction. Providing end-use customers with estimates of the energy burden reduction resulting from clean energy deployment, will increase other end-use customer interests in pursuing similar benefits. The model estimates the energy burden reduction in Dollars resulting from lease and PPA financing of residential and commercial solar PV systems. The Energy Burden Reduction methodology has been reviewed by the Public Utilities Regulatory Authority (PURA) and the Department of Energy and Environmental Protection (DEEP), and both have found this to be an acceptable and reasonable methodology for estimating actual Savings in Dollars for residential and commercial end-use customers of solar PV.

Resolution

RESOLVED, that the Audit, Compliance and Governance Committee hereby recommends to the Board of Directors for approval the proposed Residential and Commercial Energy Burden Reduction (Solar) methodology fact sheets.



EVALUATION FRAMEWORK ENERGY BURDEN REDUCTION FOR RESIDENTIAL SOLAR CUSTOMERS

Savings in Dollars from Residential Solar Leases and Loans



Overview

The Connecticut Green Bank measures its positive societal impacts across a number of categories, including economic development, environmental impact, and public health. Another area of impact the Green Bank seeks to track is the financial savings achieved by residents and businesses that install solar photovoltiac (PV) systems at their homes or commercial properties. While these systems are helping to create jobs and tax revenues, and decreasing greenhouse gas emissions, there is also often a direct financial benefit in the form of a reduced energy burden to the participating family or business. To those considering going solar, the financial savings can be a key motivator.

Residential Solar Deployment Structures

The Green Bank has used third-party ownership structures (leases and loans) to deploy distributed solar generation in Connecticut in both the residential and commercial sectors. These funds are a unique combination of a tax equity investor and a syndicate of debt providers and the Green Bank to support solar PV installations (i.e., rooftop residential lease financing for solar PV).

Residential loans through the Green Bank's Solar Loan 1, which started in FY13, were one of the first products to graduate from Green Bank funding in FY15. Subsequently, a Solar Lease 2 fund was created to continue offering a lease solution to residential customers from FY14 to FY16. In 2015, the Green Bank selected PosiGen Solar from a Request for Proposals to run the Low Income Solar Lease program which has provided a more equitable distribution of solar installations across Connecticut. Now, solar installations on households below 100 percent of area median income (AMI) is at parity with installations on those above 100 percent AMI.

Report Usage

The Connecticut Green Bank proposes to use the Energy Burden Reduction equation shown in Formula 1 to calculate actual Savings in Dollars for their residential solar photovoltaic (PV) customers. The difference between the cost of electricity for a customer using a Green Bank owned solar PV system and a customer not using such a system is equal to the dollars a customer has saved (i.e., energy burden reduction). Our goal is to make this Energy Burden Reduction for Solar Customers report into the official methodology for calculating actual savings in our Solar Lease and Solar Loan portfolios.

Methodology

This report calculates the Energy Burden Reduction for residential customers contracted to solar leases and loans in Dollars. Generally, Savings in Dollars is calculated by subtracting the Hypothetical Avoided Utility Expense by Solar Lease or Loan Expense, shown below in Formula 1. The Solar Expense is calculated differently for Commercial and Residential customers. For Residential customers, savings is only positive if the hypothetical utility cost of the solar PV generation is greater than the customer's Solar Lease or Loan Payment, shown in Formula 2.

(Formula 1) Savings = Hypothetical Avoided Utility Expense - Solar Expense

(Formula 2) Posigen/SL1/SL2 Savings = (Utility Rate*Solar PV Generation)-Solar Expense

Hypothetical Avoided Utility Expense: Hypothetical avoided utility expense calculations are the same for UI and Eversource customers, shown in Formula 3. However, various charges differ by rate class and date. We only consider kWh charges for solar PV because residential electric rates don't have demand charges. In addition, we do not include Combined Public Benefits kWh Charges in the Hypothetical Avoided Utility Expense calculation.

(Formula 3) Utility Rate=(Generation Charge + Policy and Other Delivery Charges + Transmission Charge + Distribution Charge + Demand Charge)



Solar systems are currently helping more than 43,000 Connecticut homeowners save on their energy burden, including Carline and Stuart. The utility rates used are standard offer rates. The actual rates were recorded off Public Utility Regulatory Authority's (PURA) docket website since January 1, 2011 for UI's GS, GST, LPT and residential R rate classes, and Eversource's rate classes 1, 5, 30, 35, 37, 40, 55, 56 and 57. Hypothetical Avoided Utility Expense is the Solar PV generation times the kWh Utility Rate for each month, for their respective rate group.



"Everyone said it was crazy to go solar, now they all want it. People don't realize there are savings. Our bill during the winter was \$460 and now it is \$15." — Melvin, who went solar in June 2015 and convinced three neighbors to also go solar with PosiGen

(Formula 4) Hypothetical Avoided Utility Expense=Solar PV

Solar Expense

PosiGen/Solar Lease 2/Solar Loan 1

Escalating Lease Price: Residential customers with escalating lease prices have a predetermined lease price/kWh that increases at a compounding escalator rate every year on the anniversary of the energize date. The report calculates the number of anniversaries since the energize date (in the Factor column) then calculates the Adjusted Lease price shown in Formula 5.

(Formula 5) Adjusted Lease Price=Lease Price*(\$1+Escalator/100)^Factor

or

Fixed Lease Price = Lease Price

Fixed Lease Price: Residential customers with fixed lease prices will be charged the same amount each month, depending on their respective predetermined lease price, shown in Formula 5.

Repayment is complete: Solar Lease Expenses are structured to be fully repaid before the end of the system's life cycle. If the Solar Lease Expense is fully repaid, naturally there will be no Solar Lease Expense. Savings will be equal to the equation in Formula 6 below:

(Formula 6) Savings = (Utility Rate*Solar PV Generation)

Other Considerations

Net Metering Income: The Green Bank has a practice of building our solar PV systems up to 80% of a residential customer's demand. Due to this sizing practice, our solar PV systems were built in such a way where solar PV generation will never exceed yearly customer kWh demand.

Off peak usage only in Time-of-Day Utility Estimate Calculation: Utility providers differentiate their prices depending on what time-of-day the energy is consumed. What we discovered about peak hour prices is that they are always more expensive than, or



This home in Stratford harnesses the power of the sun to lower utility expense.

equal to, off peak hour prices. Therefore, in an effort to underestimate rather than overestimate savings we only use off peak charges in the Hypothetical Avoided Utility Expense calculation. In the future we would consider adjusting the Hypothetical Avoided Utility Expense calculation to include peak prices.

The only rates that differentiate prices between peak and off peak usage are Eversource's rates 37, 41, 55, 56, 57 and Ul's GST and LPT rate; there is no time-of-day calculation for Eversource rate 1, 5, 30, 35, 40 and Ul's R and GS rate.

Automation: This report is almost entirely automated. The Green Bank uses PowerBI for its data analysis. We obtain and record PURA rates quarterly.

Billing schedule: For this report, we assume the customer billing month starts on the first day and ends on the last day each month.

Additional Improvements: Incorporate a Peak vs Off-peak kWh model to estimate peak charges for our sites with Time-of-Day rates.

Additional Note: Residential customers have the option to get supplied energy from third party providers, not just Eversource and UI. However, we are not considering third party utility providers.

About the Connecticut Green Bank

The Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011 as a part of Public Act 11-80. As the nation's first full-scale green bank, its mission is to confront climate change and provide all of society a healthier, more prosperous future by increasing and accelerating the flow of private capital into markets that energize the green economy. This is accomplished by leveraging limited public resources to scale-up and mobilize private capital investment into Connecticut. In 2017, the Connecticut Green Bank received the Innovations in American Government Award from the Harvard Kennedy School Ash Center for Democratic Governance and innovation for their "Sparking the Green Bank Movement" entry. For more information about the Connecticut Green Bank, please visit www.ctgreenbank.com.





EVALUATION FRAMEWORK ENERGY BURDEN REDUCTION FOR COMMERCIAL SOLAR CUSTOMERS

Savings in Dollars from Commercial Solar Installations



Overview

The Connecticut Green Bank measures its positive societal impacts across a number of categories, including economic development, environmental impact, and public health. Another area of impact the Green Bank seeks to track is the financial savings achieved by residents and businesses that install solar photovoltaic (PV) systems at their homes or commercial properties. While these systems are helping to create jobs and tax revenues, and decreasing greenhouse gas emissions, there is also often a direct financial benefit in the form of a reduced energy burden to the participating family or business. To those considering going solar, the financial savings can be a key motivator.

Commercial Solar Deployment Structures

The Green Bank has used third-party ownership structures to deploy distributed solar generation in Connecticut in both the residential and commercial sectors. These funds bring together a unique combination of a tax equity investor, a syndicate of debt providers, and the Green Bank to support solar PV installations (i.e., commercial leases and power purchase agreements (PPAs) for rooftop, carport, and ground mount solar PV).

For example, our PPA offers an opportunity for building owners to go solar with no money down, delivering immediate savings on electricity through a third-party owned and operated solar PV system. The building owner purchases the electricity generated by the solar PV system at an agreed-upon rate, often at a significant discount to grid power

Report Usage

The Connecticut Green Bank proposes to use the Energy Burden Reduction equation shown in Formula 1 to calculate Savings in Dollars for their commercial customers. The difference between the cost of electricity from a utility provider versus the cost of electricity from a Green Bank owned solar PV system is equal to the dollars a customer saved by allowing Green Bank to supply them electricity (i.e, reduce their energy burden). Our goal is to make this Energy Burden Reduction for Commercial Solar Customers report into the official methodology for calculating actual savings in our lease and PPA portfolios.

Methodology

This report calculates the Energy Burden Reduction for commercial customers contracted to a PPA in Dollars. Generally, Savings in Dollars is calculated by subtracting the Solar Expense from the Hypothetical Avoided Utility Expense, shown below in Formula 1. The Solar Expense is calculated differently for commercial and residential customers. For commercial customers, savings is strictly the difference between the utility rate and a customer's contractual PPA rate all multiplied by the Solar PV Generation, shown in Formula 2.

(Formula 1) Savings = Hypothetical Avoided Utility Expense - Solar Expense

(Formula 2) Commercial Savings = (Utility Rate-PPA Rate)*Solar PV Generation

Hypothetical Avoided Utility Expense: Hypothetical avoided utility expense calculations are the same for UI and Eversource customers, shown in Formula 3. However, various charges differ by rate class and date. We only consider kWh charges because, while Solar PV can have a significant, positive impact on electric demand charges, the specific impact of Solar PV on demand charges is highly dependent on the underlying customer load and the structure of their electric rates. For simplicity and accuracy, the Green Bank only includes the kWh savings, but notes that including demand charge savings could increase the savings provided by solar PV significantly. In addition, we do not include Combined Public Benefits kWh Charges in the Hypothetical Avoided Utility Expense calculation.

(Formula 3) Utility Rate = (Generation Charge + Policy and Other Delivery Charges + Transmission Charge + Distribution Charge + Demand Charge)

The utility rates used Last Resort for C&I customers. The actual rates were obtained from the Public Utility Regulatory Authority's (PURA) docket website since January 1, 2011 for UI's general service, general service time-of-day, large power time-of-day, and residential rate classes, and Eversource's rate classes 1, 5, 30, 35, 37, 40, 55, 56 and 57. Hypothetical Avoided Utility Expense is the Solar PV Generation multiplied by the kWh Utility Rate for each month, for their respective rate class.

(Formula 4) Hypothetical Avoided Utility Expense=Solar PV Generation*Utility Rate

Solar PPA Expense

Escalating PPA Rate: Customers with an escalating PPA rate see their PPA rates increase by a compounding escalator rate every year on the anniversary of the commercial operation date. The report calculates the number of anniversaries since the commercial



A drone photo of the solar PV system at the SoNo Ice House, a state-of-the-art facility featuring two ice skating rinks, in South Norwalk.

operation date (in the Factor column) then calculates the Adjusted PPA price shown in Formula 5. Solar Expense is then calculated by multiplying the adjusted PPA price/kWh by the Solar PV kWh generation shown in Formula 6.

Locus Energy: Our Solar PhotoVoltaic systems continuously upload production data to Locus Energy's web platform on a fifteen minute basis. In Formula 6, Locus kWh Generation is the sum of solar production across a month for one system.

(Formula 5) Adjusted PPA Price = Original PPA Price*(1+Escalator/100)^Factor

(Formula 6) Solar Expense = Locus kWh Generation*adjusted PPA Price \$/kWh

Fixed PPA Rate: Customers with fixed PPA rates pay the original PPA rate throughout the term of their agreement. Their Solar Expense is shown below in Formula 7:

(Formula 7) Solar Expense=Locus kWh Generation*Original PPA
Price \$/kWh

Other Considerations

Net Metering Income: The Green Bank has a practice of building our solar PV systems up to 85% of commercial customer's demand. Due to our sizing practice, our solar PV systems were built in such a way where Solar PV generation is not expected to exceed yearly customer kWh demand.

Off peak usage only in Time-of-Day Utility Estimate Calculation: Utility providers

differentiate their prices depending on what timeof-day the energy is consumed. Research shows that peak hour prices are always more expensive



With a roof lined with solar panels, the Glenbrook Industrial Park in Stamford is home to a number of artisans, makers and light manufacturing firms.

than, or equal to, off peak hour prices. Therefore, in an effort to be conservative in the estimate of savings, only use off peak charges in the Hypothetical Avoided Utility Expense calculation. In the future, consideration will be given to adjusting the Hypothetical Avoided Utility Expense calculation to include peak prices.

The only rates that differentiate prices between peak and off peak usage are Eversource's rates 37, 41, 55, 56, 57 and UI's GST and LPT rate; there is no time-of-day calculation for Eversource rate 1, 5, 30, 35, 40 and UI's R and GS rate.

Automation: This report is almost entirely automated. The Green Bank uses PowerBI for its data analysis. We obtain and record PURA rates quarterly.

Additional Improvements: Incorporate a Peak vs Off-peak kWh model to estimate peak charges for our sites with Time-of-Day rates.

Additional Notes:

- 1. Commercial customers have the option to purchase supplied energy from third party providers, not just Eversource and UI. However, we are not considering third party utility providers. It is important to note that third-party providers are almost always cheaper for C&I customers than Last Resort.
- 2. We assume the customer billing month starts on the first day and ends on the last day each month. We assume standard offer rates.

About the Connecticut Green Bank

The Connecticut Green Bank was established by the Connecticut General Assembly on July 1, 2011 as a part of Public Act 11-80. As the nation's first full-scale green bank, its mission is to confront climate change and provide all of society a healthier, more prosperous future by increasing and accelerating the flow of private capital into markets that energize the green economy. This is accomplished by leveraging limited public resources to scale-up and mobilize private capital investment into Connecticut. In 2017, the Connecticut Green Bank received the Innovations in American Government Award from the Harvard Kennedy School Ash Center for Democratic Governance and innovation for their "Sparking the Green Bank Movement" entry. For more information about the Connecticut Green Bank, please visit www.ctgreenbank.com.



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