Comprehensive Plan
Fiscal Years 2023 and 2024

Green Bonds US

July 2022
January 2023 (Revised)
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1. Introduction

The United States is an economy in transition.

Although the federal government officially declared the end of the COVID-19 Public Health Emergency on May 11, 2023, the country still ripples with aftershocks. In Connecticut alone, over 1,070,000 confirmed COVID-19 cases and more than twelve thousand COVID-19 associated deaths have left a lasting mark.\(^1\) The pandemic caused disruptions in global supply chains, resulting in delayed arrival of clean energy technology required for our programs. The shift to remote or hybrid work schedules became the new norm for non-frontline workers – in Connecticut twice as many employees now work from home compared to pre-pandemic times.\(^2\) The shift in hiring and spending behavior led to spiraling inflation, prompting the US Federal Reserve to institute a series of interest rate hikes, raising the rate from 0.25% in March 2022 to 5.25% in May 2023.

To compound matters, international conflicts such as the Russian invasion of Ukraine have sent shockwaves through the supply chain and energy markets, causing electricity rates to rise in Connecticut. These and other emergencies have diverted political attention away from the climate crisis while increasingly frequent and violent storms, drought, wildfires and floods wreak havoc worldwide.

The most recent update from the United Nations on progress towards the Sustainable Development Goals\(^3\) paints a bleak picture: to avoid the worst effects of climate change, global GHG emissions will “need to peak before 2025 and then decline by 43% by 2030, falling to net zero by 2050. Instead under current voluntary national commitments to climate action, greenhouse gas emissions will rise [emphasis added] by nearly 14 percent by 2030.”

The effects of anthropogenic climate change are undeniably present. We are witnessing firsthand how climate change impacts our state. Canada is currently experiencing its worst fire season in modern history. Over 20 million acres of boreal forest in Quebec have succumbed to the flames\(^4\), and the smoke has drifted south, enveloping the northeast coast in an eerie, orangey haze reminiscent of science fiction films. While fires are a natural part of these forests’ lifecycle, hotter temperatures fueled by climate change have intensified wildfires and prolonged fire seasons. In July 2023, torrential rains caused the National Weather Service to issue flood warnings along the Connecticut River as water levels surged\(^5\). Roads and ferries crossing the river were closed in anticipation of potential flash flooding or washouts.

Not only have we witnessed increasing severe storm events, but we have also witnessed a decrease in air quality in southern Connecticut. In November of 2022, 43 Connecticut towns across Fairfield, New Haven, and Middlesex counties were reclassified from “serious” to

1 COVID-19 data resources | Connecticut Data  
2 Number of remote workers in CT has almost doubled since 2019 (ctmirror.org)  
4 This is Canada’s worst fire season in modern history — but it’s not new : Short Wave : NPR  
5 National Weather Service flood warning for Connecticut River (courant.com)
“severe” non-attainment areas due to an increase in ground-level ozone (or smog). Smog can cause respiratory harm, especially to those already suffering from asthma and other health risks.

Amidst these challenges, there have been significant positive developments in federal policy to address climate change. We have witnessed historical progress at the federal level towards changing our emissions trajectory towards 40% reduction from 2005 levels by 2030. In November 2021, the US Congress enacted the Infrastructure Investment and Jobs Act (“IIJA”), also called the Bipartisan Infrastructure Law (“BIL”). The $1.2 trillion act established and refunded programs to support new infrastructure over a 10-year period. The IIJA contains research and development funds for low-carbon energy technology and support for deployment of clean energy technology such as electric vehicles. In fact, the largest portion of this investment will be overseen by the Department of Transportation.

Furthermore, in August 2022, Congress reached a deal on budget reconciliation and enacted the Inflation Reduction Act (“IRA”). This landmark federal law which aims to curb inflation and represents the single most significant legislation to combat climate change in our nation’s history. It allocates $369 billion to help build the clean energy economy through incentives and tax credits, including the creation of a $27 billion Greenhouse Gas Reduction Fund (“GGRF”) modelled after the Connecticut Green Bank (“Green Bank”).

Here in Connecticut, the Green Bank continues to seek solutions that can accelerate progress towards the state decarbonization goals established in the 2008 Global Warming Solutions Act (“GWSA”). Our investments have already made a measurable difference. In the 12 years of its existence, the Green Bank has helped avoid nearly 10 million tons of carbon dioxide emissions (the equivalent of 2.1 million passenger vehicles driven for one year). Avoiding 1 million tons of carbon dioxide emissions a year, for a state that emits nearly 35 million tons per year, is nearly 3 percent of all emissions avoided, or over 25 percent of emissions avoided from electricity generation (and consumption).

However, we must acknowledge that Connecticut will need to significantly accelerate annual reductions to be on track to achieve 2030 and 2050 targets set forth in the GWSA. The 2021 Connecticut Greenhouse Gas Emissions Inventory, released in April 2023 by the Connecticut Department of Energy and Environmental Protection (“DEEP”), revealed that emissions estimates for 2021 are a 22 percent decrease from the 1990 baseline, but a 6 percent increase from 2020. Transportation is the highest emitting sector (i.e., 40% of emissions), with residential (i.e., 19% of emissions) and electric power (i.e., 15% of emissions) following.

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6 [EPA seeks to label parts of CT with ‘severe’ noncompliance of federal air quality standards due to smog (ctinsider.com)]
7 [The US Bipartisan Infrastructure Law: Breaking it down | McKinsey]
10 Connecticut Greenhouse Gas Inventory (Update for 1990-2021) by DEEP (April 20, 2023)
11 Ibid (11)
12 Reduce GHG emissions by 45% from 2001 levels by 2030 and 80% from 2001 levels by 2050
In recognition of the Green Bank’s successful track record of deploying green infrastructure, Governor Ned Lamont, with the support of the Governor’s Council on Climate Change, signed into law Public Act 21-115 on July 6, 2021. This act expanded the Green Bank mandate to include environmental infrastructure – a recognition that the same financing tools we have successfully leveraged to increase investment in and deployment of clean energy in Connecticut can support other environmental sectors in need of rapid transformation as well. The act includes the creation of an Environmental Infrastructure Fund which could receive federal funds (e.g., GGRF) to mobilize private investment in environmental infrastructure.

Liu Zhenmin, the United Nations Under-Secretary-General for Economic and Social Affairs, concludes his comments on the annual SDG report with the following guidance: “Nothing short of a comprehensive transformation of the international finance and debt architecture will be required to accomplish these aims…”

Although the Green Bank is geographically limited in our ability to invest in resilience and mitigation to confront climate change, we can continue to be a leader in the space and demonstrate how new financing models through public-private partnerships can drive innovative investment in our global future. Since the Green Bank’s launch in 2011 as the first state level green bank in the nation, dozens of state and local green banks have popped up both nationally and abroad. With the IIJA and the IRA in place at the federal level, and the public policies and incentives available in Connecticut, the Green Bank is poised to continue its leadership and advance its mission.

As the saying goes “think globally – act locally”. With the infusion of federal funding from the IIJA and the IRA, we now have a unique opportunity to accelerate the transition to a green economy. These funds come with a welcome forcing mechanism to ensure that the benefits of this transition reach low-income families and disadvantaged communities, promoting an equitable deployment that benefits all communities in our state. Together, we can create a sustainable future that leaves no one behind.

2. Organizational Overview
The Green Bank was established on a bipartisan basis by Governor Malloy and the Connecticut General Assembly (“CGA”) on July 1, 2011 through Public Act (“PA”) 11-80 as a quasi-public agency that supersedes the former Connecticut Clean Energy Fund (“CCEF”). On July 1, 2021, the 10th anniversary of the Green Bank, again, on a bipartisan basis, Governor Lamont and the CGA enacted PA 21-115 expanding the scope of the Green Bank beyond “clean energy” to include “environmental infrastructure”. As the nation’s first state green bank, the Green Bank leverages public funds to mobilize multiples of private investment to increase and accelerate

16 “There’s finally a national climate bank. Here’s how it can make its $27 billion go even further” in Fast Company by Ashley Stimpson (December 16, 2022)
17 PA 11-80 repurposed the Connecticut Clean Energy Fund (CCEF) administered by Connecticut Innovations, into a separate quasi-public organization called the Clean Energy Finance and Investment Authority (CEFIA). Per Public Act 14-94, CEFIA was renamed to the Connecticut Green Bank.
investment in clean energy deployment and environmental infrastructure improvement in Connecticut.

The Green Bank’s statutory purposes are:

- To develop programs to finance and otherwise support clean energy and environmental infrastructure investment in residential, municipal, small business and larger commercial projects and such other programs as the Green Bank may determine;

- To support financing or other expenditures that promote investment in clean energy sources and environmental infrastructure to foster the growth, development and commercialization of clean energy sources, environmental infrastructure, and related enterprises; and

- To stimulate demand for clean energy and the deployment of clean energy sources and investment in environmental infrastructure within the state that serves end-use customers in the state.

The Green Bank’s purposes are codified in Section 16-245n(d)(1) of the Connecticut General Statutes (“CGS”) and restated in the Green Bank’s Board approved Resolution of Purposes. The Green Bank is a public policy innovation that exemplifies Connecticut’s more than two-decade history of bipartisan executive and legislative branch leadership on the issue of climate change. Leadership highlights include:

- **Governor Rowland** – co-chaired the New England Governors and Eastern Canadian Premiers Conference, which established a regional commitment to reduce greenhouse gas (“GHG”) emissions (i.e., 1990 levels by 2010, 10% below 1990 levels by 2020, and 80% below 2001 levels by 2050); ¹⁹

- **Governor Rell** – supported PA 08-98²⁰ codifying the regional commitment into state law, appointing Gina McCarthy to be the Commissioner of the Department of Environmental Protection who would help lead the development of the Regional Greenhouse Gas Initiative (“RGGI”), later become the Administrator of the United States Environmental Protection Agency (“USEPA”) under President Obama, and become the White House National Climate Advisor for President Biden;

- **Governor Malloy** – led the passage of PA 11-80 establishing DEEP, creating the Green Bank, and other policies catalyzing the market for clean energy, as well as PA 18-50²¹ and PA 18-82²² increasing the state’s renewable portfolio standard (“RPS”) to 40% by

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¹⁹ NEG-ECP Resolution 26-4 adopting the “Climate Change Action Plan 2001” (August 2001 in Westbrook, CT) – Westbrook Resolution
2030 and establishing a midterm GHG emissions reduction target of 45% below 2001 levels by 2030, respectively; and

- **Governor Lamont** – issued his first\(^{23}\) and third\(^{24}\) executive orders on state “Greener Gov” for sustainability, clean energy, and climate change leadership, passing PA 21-115 expanding the scope of the Green Bank to include “environmental infrastructure,” PA 22-5\(^{25}\) including a 100% zero emission electricity target by 2040, and PA 22-25\(^{26}\) confronting greenhouse gas emissions from the transportation sector, including 100% targets for school buses in environmental justice communities by 2030 and all communities by 2040.

The CGA has worked hand-in-hand with these Governors and the citizens of the state over the years to devise and support public policies that promote clean energy, environmental infrastructure, and lead the movement to confront climate change.\(^{27}\)

### 2.1 Vision Statement

...a planet protected by the love of humanity.\(^{28}\)

### 2.2 Mission Statement

Confront climate change by increasing and accelerating investment into Connecticut's green economy to create more resilient, healthier, and equitable communities.

### 2.3 Goals

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, especially vulnerable communities,\(^{29}\) by making the benefits of the green economy inclusive and accessible to all individuals, families, and businesses.

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\(^{23}\) [https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-1.pdf](https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-1.pdf)

\(^{24}\) [https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-3.pdf](https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-3.pdf)


\(^{27}\) Reducing greenhouse gas emissions and confronting climate change is supported by a number of public policies, including, but not limited to PA 17-3, PA 18-82, PA 19-71, Governor Lamont’s Executive Orders 1 and 3, Comprehensive Energy Strategy, Governor’s Council on Climate Change, and many other past acts, plans, or policies.

\(^{28}\) Vision Statement inspired by the Innovations in American Government Awards at the Ash Center of Harvard University’s Kennedy School of Government, Maya Angelou’s “On the Pulse of Morning,” the powerful words of Mary Evelyn Tucker on “inclusive capitalism,” and the late Mother Jennifer of the Daughters of Mary of the Immaculate Conception

\(^{29}\) Per PA 20-05, “An Act Concerning Emergency Response by Electric Distribution Companies, the Regulation of Other Public Utilities and Nexus Provisions for Certain Disaster-Related or Emergency-Related Work Performed in the State,” “vulnerable communities” means populations that may be disproportionately impacted by the effects of climate change, including, but not limited to, low and moderate income communities, environmental justice communities pursuant to section 22a-20a, communities eligible for community reinvestment pursuant to section 36a-30 and the Community Reinvestment Act of 1977,
3. To pursue investment strategies that advance market transformation in green investing while supporting the organization’s pursuit of financial sustainability.

The vision statement, mission statement, and goals support the implementation of Connecticut’s climate change, clean energy, and environmental infrastructure policies be they statutorily required (e.g., PA 21-53), planning (e.g., Comprehensive Energy Strategy), or regulatory (e.g., Docket No. 17-12-03RE03) in nature.

Framework for an Equitable Modern Grid

The Public Utilities Regulatory Authority’s (“PURA”) Framework for an Equitable Modern Grid, seeks to (1) support, or remove barriers to, the growth of Connecticut’s green economy; (2) enable a cost-effective, economy-wide transition to a decarbonized future; (3) enhance customer access to a more resilient, reliable and secure electricity commodity; and (4) advance the ongoing energy affordability dialogue in the state, particularly in underserved communities.

The Green Bank supports PURA in their efforts through participation in many of the re-openers in the equitable modern grid as a commentor, a participant and a program administrator.

2.4 Definitions – Clean Energy and Environmental Infrastructure

The Green Bank’s investment focus is on “clean energy” and “environmental infrastructure” as defined by CGS Section 16-245n:

- **Clean Energy** – “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 GHG 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, 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,

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12 USC 2901 et seq., as amended from time to time, populations with increased risk and limited means to adapt to the effects of climate change, or as further defined by DEEP in consultation with community representatives.

31 Equitable Modern Grid Initiative – Electric Storage
manufacturing technologies or facilities and any Class I renewable energy source, as defined in CGS 16-1(a)(2).

- **Environmental Infrastructure** – “environmental infrastructure” means structures, facilities, systems, services and improvement projects related to (A) water, (B) waste and recycling, (C) climate adaptation and resiliency, (D) agriculture, (E) land conservation, (F) parks and recreation, and (G) environmental markets, including, but not limited to carbon offsets and ecosystem services.

### 2.5 Governance

Pursuant to Section 16-245n of the CGS, the powers of the Green Bank are vested in and exercised by a Board of Directors (“BOD”) that is comprised of twelve voting and one non-voting members each with knowledge and expertise in matters related to the purpose of the organization – see Table 1.

<table>
<thead>
<tr>
<th>Position</th>
<th>Status</th>
<th>Appointer</th>
<th>Voting</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Treasurer (or designee)</td>
<td>Ex Officio</td>
<td>Speaker of the House</td>
<td>Yes</td>
</tr>
<tr>
<td>Commissioner of DEEP (or designee)</td>
<td>Ex Officio</td>
<td>Minority Leader of the House</td>
<td>Yes</td>
</tr>
<tr>
<td>Commissioner of DECD (or designee)</td>
<td>Ex Officio</td>
<td>President Pro Tempore of the Senate</td>
<td>Yes</td>
</tr>
<tr>
<td>Secretary of OPM (or designee)</td>
<td>Ex Officio</td>
<td>Minority Leader of the Senate</td>
<td>Yes</td>
</tr>
<tr>
<td>Residential or Low-Income Group</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Investment Fund Management</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Environmental Organization</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Finance or Deployment of Renewable Energy</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Finance of Renewable Energy</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Finance of Renewable Energy</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>Labor</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>R&amp;D or Manufacturing</td>
<td>Appointed</td>
<td>Governor</td>
<td>Yes</td>
</tr>
<tr>
<td>President of the Green Bank</td>
<td>Ex Officio</td>
<td>Ex Officio</td>
<td>No</td>
</tr>
</tbody>
</table>

There are four (4) committees of the BOD of the Green Bank, including Audit, Compliance, and Governance Committee (“ACG Committee”), Budget, Operations, and Compensation Committee (“BOC Committee”), Deployment Committee, and the Joint Committee of the Energy Efficiency Board (“EEB”) and the Green Bank.

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33 Carbon offsets means an activity that compensates for the emission of carbon dioxide or other greenhouse gases by providing for an emission reduction elsewhere.

34 Ecosystem services means benefits obtained from ecosystems, including, but not limited to, (A) provisioning services such as food and water, (B) regulating services such as floods, drought, land degradation and disease, and (C) supporting services such as soil formation and nutrient cycling.


37 Pursuant to CGS 16-245mdl(2) – There shall be a joint committee of the Energy Conservation Management Board and the board of directors of the Connecticut Green Bank. The boards shall each appoint members to such joint committee. The joint committee shall examine opportunities to coordinate the programs and activities funded by the Clean Energy Fund pursuant to section 16-245n with the programs and activities contained in the plan developed under this subsection and to provide financing to increase the benefits of programs funded by the plan so as to reduce the long-term cost, environmental impacts and security risks of energy in the state. Such joint committee shall hold its first meeting on or before August 1, 2005.
Principal Statement of the Joint Committee

To support the Joint Committee of the EEB and the Green Bank, the following is a principal statement to guide its activities:

The EEB and the Green Bank have a shared goal to implement state energy policy throughout all sectors and populations of Connecticut with continuous innovation towards greater leveraging of ratepayer funds and a uniformly positive customer experience.

The BOD of the Green Bank is governed through enabling legislation, as well as by an Ethics Statement and Ethical Conduct Policy, Resolutions of Purposes, Bylaws, Joint Committee Bylaws, and a Comprehensive Plan. All meetings, agendas, and materials of the Green Bank’s BOD and its Committees are publicly available on the organization’s website.\textsuperscript{38,39}

2.6 Organizational Structure

The Green Bank is administered by a professional staff overseeing three (3) business units, including:

- **Incentive Programs** – the Governor and the CGA from time-to-time may decide that there are certain incentive programs that they seek to have the Green Bank administer (e.g., PA 21-53). The Green Bank administers such programs with the goal of delivering on the public policy objectives, while at the same time ensuring that funds invested by the Green Bank are cost recoverable.\textsuperscript{40} For example, the Green Bank co-administers the Energy Storage Solutions (“ESS”) program with the Electric Distribution Companies (“EDC”) (i.e., Avangrid and Eversource Energy) to deploy 580 MW of behind the meter residential and non-residential battery storage systems through an upfront declining incentive block structure and ongoing performance-based incentive.

- **Financing Programs** – the Green Bank’s core business is financing clean energy projects. The use of public revenues by the Green Bank (i.e., Clean Energy Fund (“CEF”) and RGGI allowance proceeds) are to be invested with the expectation of principal and interest being paid back over time (i.e., earned revenues). For example, per CGS 16a-40g, the Green Bank administers the Commercial Property Assessed Clean Energy (“C-PACE”) program. Through C-PACE, the Green Bank provides capital to building owners to make clean energy and resilience improvements on their properties that is paid back over time from a benefit assessment on the building owner’s property tax bill. The interest earned from these types of investments, over time, is expected to cover the operational expenses and a return for the Green Bank.

- **Environmental Infrastructure Programs** – as a result of the passage of PA 21-115 expanding the scope of the Green Bank beyond “clean energy” to include

\textsuperscript{38} https://www.ctgreenbank.com/about-us/governance/board-meetings/
\textsuperscript{39} https://www.ctgreenbank.com/about-us/governance/committee-meetings/
\textsuperscript{40} In the past, per CGS 16-245ff, the Green Bank administered the Residential Solar Investment Program (“RSIP”) which resulted in 350 MW of residential solar photovoltaic system deployment between 2012 through 2021. RSIP is cost recoverable per CGS 16-245gg.
“environmental infrastructure,” the financing tools of the green bank model will be used to mobilize private investment in Connecticut’s green economy. Raising capital for the Environmental Infrastructure Fund (“EIF”) through the issuance of Green Liberty Bonds, accessing federal resources (e.g., IIJA, GGRF), and/or other means, will provide resources to invest in the modernization, decarbonization, and resilience of the state’s environmental infrastructure.

These three business units – Incentive Programs, Financing Programs, and Environmental Infrastructure Programs – serve the purposes of the Green Bank. To support the business units and their investments, the Green Bank has administrative support from finance, legal, marketing and operations.

In FY19, the Green Bank, in partnership with DEEP and the Kresge Foundation, formed a nonprofit organization called Inclusive Prosperity Capital (“IPC”). The mission of IPC is to attract mission-oriented investors in underserved clean energy market segments (e.g., low-to moderate-income (“LMI”) single and multifamily properties) of the green economy. Although not an affiliate, nor a component unit of the Green Bank, IPC serves an important role supporting Green Bank programs (e.g., Smart-E, Solar PPA, and Multifamily Affordable) through FY26.

For an overview of the organizational structure of the Green Bank, and its partnership with IPC – see Figure 1.

**Figure 1. Organizational Structure of the Green Bank with Support from Inclusive Prosperity Capital**

An Employee Handbook and Operating Procedures have been approved by the BOD and serve to guide the staff to ensure that it is following proper contracting, financial assistance, and other requirements.

3. **Incentive Programs**

The Green Bank administers incentive programs, including credit enhancements (e.g., interest rate buydowns, loan loss reserves), used to deploy clean energy and environmental infrastructure, while at the same time cost recovering the expenses associated with several of
these programs (i.e., CGS 16-245ff, PA 21-53) within the business unit – including, but not limited to, incentives, administrative expenses, and financing costs.

3.1 Residential Solar Investment Program and Residential Renewable Energy Solutions

Residential Solar Investment Program
Per CGS 16-245ff, the Green Bank administered the Residential Solar Investment Program (“RSIP”) to deploy 350 megawatts of new residential solar PV systems on or before December 31, 2022, while promoting the sustained, orderly development of a local state-based solar PV industry and ensuring that solar PV systems are accessible and affordable to vulnerable communities.\(^{41}\) As of December 31, 2022, the RSIP achieved 378 MW of deployment, providing more than 46,300 households with access to solar PV systems, including 50% within vulnerable communities.\(^{42}\) With the end of the RSIP policy, the focus of the Green Bank will be to manage the Solar Home Renewable Energy Credits (“SHREC”) generated from the systems supported through the RSIP to recover incentives, administrative expenses, and financing costs, by selling SHRECs to the EDCs through a 15-year Master Purchase Agreement (“MPA”) to pay for bonds sold to support the program.

Residential Renewable Energy Solutions
Starting January 1, 2022, the residential solar PV market transitioned from the RSIP and net metering to a tariff-based compensation structure.\(^{43}\) In order to ensure the continued sustained, orderly development of the local solar industry beyond the conclusion of the RSIP, and access to such clean energy technologies by vulnerable communities, the Green Bank actively engaged in the regulatory process (i.e., Docket No. 20-07-01) overseen by PURA to establish Residential Renewable Energy Solutions (“RRES”) – an EDC-administered residential renewable energy tariff program.

As a result of the Green Bank’s engagement in the PURA process for the RRES, the following key program design principles were included:

- **Rate of Return** – a just, reasonable, and adequate rate of return of between 9 to 11 percent was determined (i.e., equivalent to $0.294/kWh in 2021) for the 20-year tariff through the Green Bank’s inclusion of an objective rate of return analysis of the RSIP;

- **HES or HES-IE Requirement** – to continue the linkage between energy efficiency and solar PV as demonstrated by the RSIP, an important objective of the Joint Committee, the Green Bank advocated for a Home Energy Solutions (“HES”) or Home Energy Solutions – Income Eligible (“HES-IE”) requirement as part of the RRES;

- **Additional Incentives for Vulnerable Communities** – given the success of the RSIP in reaching vulnerable communities, the Green Bank wanted to ensure that solar PV was

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\(^{41}\) Each year, from 2019 through 2022, and cumulatively from 2014 through 2021, Connecticut had the largest per capita deployment of residential solar PV in the entire northeast (i.e., New England, New Jersey, and New York) as a result of administering the RSIP (SEIA – Solar Market Insights 2022).


\(^{43}\) See CGS 16-244z and Docket No. 20-07-01
affordable and accessible to LMI households, and thus adders for low income (i.e., $0.0250/kWh) or households located in distressed municipalities\(^{44}\) (i.e., $0.0125/kWh) over the 20-year tariff were determined;

- **Direct Payment** — due to the perceived risks of underwriting financing (i.e., loans, leases, or power purchase agreements (“PPAs”)) for vulnerable communities, the Green Bank advocated for direct payments of the tariff rates from the EDCs to a third-party in-part or in-whole as a way to reduce borrower risk (including perceived risk) and therefore make renewable energy more affordable and accessible to vulnerable communities. This provides a financing mechanism that would allow the Green Bank to provide investment in developers serving vulnerable communities; and

- **Affordable Housing** — as part of the Green Bank-led amendments to Section 2 of PA 21-48,\(^{45}\) which includes “affordable housing” as part of RRES (i.e., versus Non-Residential Renewable Energy Solutions or “NRES”), and a subsequent decision by PURA in Docket No. 22-08-02, it will be easier for property owners to participate in RRES, enabling energy savings to both the property owner and its low-income tenants.

These key program design principles within the EDC-administered tariff program will improve the program's likelihood of success in deploying no less than fifty (50) megawatts of new residential solar PV a year, while ensuring that vulnerable communities have continued opportunities to reduce the burden of energy costs that they experienced through the RSIP. To support PURA in overseeing the EDC-administered RRES, the Green Bank is a consultant to the Office of Education, Outreach, and Enforcement.

### 3.2 Energy Storage Solutions

With the passage of PA 21-53 establishing a 1000 MW energy storage target by 2030, and the final decision in Docket No. 17-12-03RE03 on electric storage, the Green Bank was selected by PURA to co-administer a 580 MW behind the meter residential and non-residential battery storage incentive program with the EDCs called Energy Storage Solutions (“ESS”). The Green Bank is responsible for administering the upfront incentive, marketing the program, overseeing evaluation, measurement, and verification (“EM&V”), and fostering the sustained, orderly development of a state-based electric energy storage industry. ESS seeks to deploy battery storage systems to help families and businesses become more resilient against power outages, while reducing peak demand during summer and winter periods reducing electric rates for all ratepayers.

### 3.3 EnergizeCT Smart-E Loan

The EnergizeCT Smart-E Loan (“Smart-E Loan”) is a partnership between the Green Bank and local community banks and credit unions that provide easy and affordable access to capital for homeowners to finance clean energy and environmental infrastructure improvements on their properties through local contractors. The Green Bank provides credit enhancements to the participating financing institutions in the form of interest rate buydowns (i.e., from the use of

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federal resources and from the Green Bank balance sheet through linked deposits) and loan loss reserves (i.e., from the Green Bank balance sheet). This allows financial institutions to provide low-interest and longer-term loans to families.

In FY 2023, the Green Bank, working with Connecticut Institute for Resilience and Climate Adaptation (“CIRCA”), DEEP, Connecticut Department of Public Health (“DPH”), Connecticut Insurance Department, and other stakeholders, identified additional measures (i.e., climate adaptation and resilience, water) for inclusion within the Smart-E Loan for environmental infrastructure. Such measures will be included in the Smart-E Loan and made available in 2024.

### 3.4 Incentive Program Targets

The Green Bank has set targets for its Incentive Programs business unit for FY 2023 and FY 2024 in terms of the number of projects, total investment (i.e., public and private), and installed capacity – see Tables 2 and 3.

#### Table 2. Revised FY 2023 Targets for the Incentive Programs Business Unit

<table>
<thead>
<tr>
<th>Program / Product</th>
<th>Projects</th>
<th>Total Capital Deployed ($MM’s)</th>
<th>Installed Capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Storage Solutions – Residential</td>
<td>350</td>
<td>$14.9</td>
<td>4,700</td>
</tr>
<tr>
<td>Energy Storage Solutions – Non-Residential</td>
<td>30</td>
<td>$67.5</td>
<td>45,000</td>
</tr>
<tr>
<td>EnergizeCT Smart-E Loan</td>
<td>960</td>
<td>$15.0</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,340</strong></td>
<td><strong>$97.4</strong></td>
<td><strong>49.9</strong></td>
</tr>
</tbody>
</table>

#### Table 3. FY 2024 Targets for the Incentive Programs Business Unit

<table>
<thead>
<tr>
<th>Program / Product</th>
<th>Projects</th>
<th>Total Capital Deployed ($MM’s)</th>
<th>Installed Capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Storage Solutions – Residential</td>
<td>250</td>
<td>$8.0</td>
<td>2,000</td>
</tr>
<tr>
<td>Energy Storage Solutions – Non-Residential</td>
<td>29</td>
<td>$73.5</td>
<td>50,000</td>
</tr>
<tr>
<td>EnergizeCT Smart-E Loan</td>
<td>944</td>
<td>$17.9</td>
<td>300</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,211</strong></td>
<td><strong>$99.0</strong></td>
<td><strong>52,300</strong></td>
</tr>
</tbody>
</table>

In terms of the Green Bank’s vulnerable community’s prioritization, the following is a goal for Incentive Programs:

- By 2025, no less than 40 percent of investment and benefits (e.g., reduction in energy burden, increase in resilience, jobs) from Incentive Programs is directed to vulnerable communities.

As a result of successfully achieving these targets, the Green Bank will reduce energy burden and increase resilience for Connecticut families and businesses, especially those in vulnerable communities.
communities, create jobs in our communities, raise tax revenues for the State of Connecticut, and reduce air pollution causing local public health problems and contributing to global climate change.

4. Financing Programs

The Green Bank manages financing programs. That is to say that it oversees financing programs that invest capital upfront (i.e., public revenues including CEF and RGGI) to deploy clean energy, while at the same time returning principal and interest (i.e., earned revenues) over time from the financing of projects, products, or programs to ensure the financial sustainability of the Green Bank.

4.1 Commercial Property Assessed Clean Energy

Per CGS 16a-40g, C-PACE enables building owners to pay for clean energy improvements over time through a voluntary benefit assessment placed by participating municipalities on their property tax bills. As of June 30, 2023, there have been 139 cities and towns that have opted into C-PACE. This process makes it easier for building owners to secure low-interest capital for up to 25 years to fund clean energy improvements and is structured so that energy savings more than offset the benefit assessment. With the passage of PA 22-6, resilience and electric vehicle recharging stations were added to the list of eligible measures for C-PACE.

Continuing its efforts, in FY 2024, the Green Bank, working with DEEP, CIRCA, and other stakeholders, will be expanding C-PACE beyond clean energy to include resilience measures.

4.2 Green Bank Solar Power Purchase Agreement & Solar Roof Lease

The Green Bank Solar PPA and the Green Bank Solar Roof Lease are third-party ownership structures to deploy solar PV systems for commercial scale end-use customers (e.g., businesses, nonprofits, municipal and state governments, schools, affordable multifamily properties, etc.) that uses a multi-year PPAs or site lease to finance projects while either reducing energy costs for the host customer or providing a fixed annual lease payment.

4.3 Small Business Energy Advantage & Business Energy Advantage

Small Business Energy Advantage (“SBEA”) and Business Energy Advantage (“BEA”) are Eversource Energy administered on-bill commercial energy efficiency financing programs for small and medium-sized businesses, municipalities and Connecticut state agencies. Low-cost capital is provided by Amalgamated Bank with a credit enhancement from the Green Bank (i.e., subordinated debt) and the Connecticut Energy Efficiency Fund (i.e., loan loss guaranty and interest rate buydown). SBEA and BEA enables qualifying customers to access 0% on bill financing for up to $100,000 per site for businesses (up to a maximum of $1,000,000), up to $5,000,000 for municipalities, and up to $5,000,000 per project for state facilities with no overall outstanding loan cap.

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48 Per CGS 16-244aa, “resilience” means the ability to prepare for and adapt to changing conditions and withstand and recover rapidly from deliberate attacks, accidents or naturally occurring threats or incidents, including, but not limited to, threats or incidents associated with the impacts of climate change.
4.4 Multifamily Products
The Green Bank provides a suite of financing options in collaboration with our partners IPC and Capital for Change (a Community Development Financial Institution or “CDFI”) that support property owners of multifamily buildings\(^49\) to assess, design, fund, and monitor high impact clean energy and health & safety improvements for their properties. Beginning in FY24, as a result of public policy,\(^50\) the Green Bank will focus its support of RRES by deploying solar and storage in affordable multifamily properties through the Green Bank Solar PPA & Lease as well as C-PACE and the Solar Loan. The Green Bank will continue to support energy efficiency through its support of the LIME product offered by Capital for Change, as well as C-PACE.

4.5 Green Bank Capital Solutions
As opportunities present themselves, the Green Bank from time-to-time invests as part of a capital structure in various projects (e.g., fuel cell, hydropower, food and farm waste to energy). These projects are selected based on the opportunity to expand the organization’s experience with specific technologies, advance economic development in a specific locale, or to drive adoption of clean energy that would otherwise not occur, while also earning a rate of return.

4.6 Financing Program Targets
The Green Bank has set targets for its Financing Programs business unit for FY 2023 and FY 2024 in terms of the number of projects, total investment (i.e., public and private), and installed capacity – see Tables 4 and 5.

Table 4. Revised FY 2023 Targets for the Financing Programs Business Unit

<table>
<thead>
<tr>
<th>Program / Product</th>
<th>Projects</th>
<th>Total Capital Deployed ($MM’s)</th>
<th>Green Bank Capital Deployed ($MM’s)</th>
<th>Installed Capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial PACE</td>
<td>23</td>
<td>$31.0</td>
<td>$7.0</td>
<td>7,600</td>
</tr>
<tr>
<td>Green Bank Solar PPA</td>
<td>19</td>
<td>$13.7</td>
<td>$2.7</td>
<td>-</td>
</tr>
<tr>
<td>Small Business Energy Advantage</td>
<td>839</td>
<td>$18.6</td>
<td>$3.7</td>
<td>-</td>
</tr>
<tr>
<td>Multifamily Term Loan</td>
<td>6</td>
<td>$1.4</td>
<td>-</td>
<td>600</td>
</tr>
<tr>
<td>Multifamily Health and Safety</td>
<td>1</td>
<td>$0.9</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>882</td>
<td>$64.2</td>
<td>$13.4</td>
<td>7,600</td>
</tr>
</tbody>
</table>

Table 5. FY 2024 Targets for the Financing Programs Business Unit

<table>
<thead>
<tr>
<th>Program / Product</th>
<th>Projects</th>
<th>Total Capital Deployed ($MM’s)</th>
<th>Green Bank Capital Deployed ($MM’s)</th>
<th>Installed Capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial PACE</td>
<td>19</td>
<td>$21.2</td>
<td>$7.7</td>
<td>-</td>
</tr>
<tr>
<td>Green Bank Solar PPA</td>
<td>16</td>
<td>$16.1</td>
<td>$11.0</td>
<td>8,200</td>
</tr>
<tr>
<td>Small Business Energy Advantage</td>
<td>480</td>
<td>$11.7</td>
<td>$2.3</td>
<td>-</td>
</tr>
</tbody>
</table>

\(^{49}\) Buildings with 5 or more units  
\(^{50}\) Public Act 21-48 and Docket No. 22-08-02
In terms of the Green Bank’s vulnerable communities prioritization, the following is a goal for Financing Programs:

- By 2025, no less than 40 percent of investment and benefits (e.g., reduction in energy burden, increase in resilience, jobs) from Financing Programs is directed to vulnerable communities.

The capital provided by the Green Bank, which is a portion of the total investment, is expected to yield a return commensurate with the financial sustainability objectives of the organization and business unit.

As a result of successfully achieving these targets, the Green Bank will contribute to its financial sustainability, and also reduce the energy burden and increase resilience for Connecticut families and businesses, especially those in vulnerable communities, create jobs in our communities, raise tax revenues for the State of Connecticut, and reduce air pollution that cause local public health problems and global climate change.

5. Environmental Infrastructure Programs

Following the passage of PA 21-115 in June of 2021, the Green Bank began the process of policy assessment and development for environmental infrastructure in FY 2022, including:

- **Governance Amendments** – revising various governance documents including the Resolution of Purpose, Bylaws, and Operating Procedures;

- **Assessing Bond Potential** – investigating the potential for Green Liberty Bonds to be issued to raise proceeds for environmental infrastructure investment, including fifty (50) year maturity terms;

- **Developing Products** – expanding the ability for the Smart-E Loan to support environmental infrastructure projects for single family property owners and C-PACE to support resilience projects for multifamily and commercial property owners;

- **Stakeholder Engagement** – initiating outreach to public, private, nonprofit, and academic stakeholder organizations to introduce the Green Bank, understand public policies and targets, identify funding opportunities, market potential, investment requirements, and financing models, and metrics for environmental infrastructure; and

- **Strategic Retreat** – engaging members of the BOD, staff, and key stakeholders in an offsite strategic retreat to expand the scope of the Green Bank to mobilize private investment in environmental infrastructure.\(^{51}\)\(^{52}\)

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\(^{52}\) [https://www.youtube.com/watch?v=6V3wwMcaUvU](https://www.youtube.com/watch?v=6V3wwMcaUvU)
As a result of these efforts in FY 2022, the Green Bank makes the following observations with respect to environmental infrastructure:

1. **Market Intermediary Role** – as is the case with respect to “clean energy,” the Green Bank has a role to play as a market intermediary for “environmental infrastructure” – see Figure 2. Given the ambitious nature of public policies with respect to environmental infrastructure (e.g., 21% open space by 2023), and the need to mobilize and attract private investment to achieve the policy objectives (e.g., $1.5 billion of additional public and/or private investment needed to achieve the open space target), there is a need for an intermediary role for the Green Bank between capital markets and public policy.

2. **Better Market Signals** – again, as is the case with respect to “clean energy” (e.g., zero emission renewable energy credits), there is a need for public policy to send better market signals to unlock and mobilize private capital investment in “environmental infrastructure”. For example, beyond “sticks” (e.g., regulation and enforcement requiring producers of food waste to transport their waste to an anaerobic digester per PA 11-127), there need to also be associated “carrots” (e.g., virtual net metering, low emission renewable energy credits, renewable natural gas) in order to enable private investment in “environmental infrastructure”. A strong market signal public policy for green and blue infrastructure is Maryland’s Conservation Finance Act of 2022 and the pay-for-success contracts for certain environmental outcomes.\(^{53}\)

3. ** Appropriately Priced Capital** – if public policy in Connecticut is designed to reduce risks (including perceived risks), then attracting and mobilizing appropriately priced private capital (e.g., lower interest rates, longer terms) must ensue. The Green Bank can access affordable private capital through the issuance of Green Liberty Bonds, which can be paid back over 50 years (or the useful life of the asset) and whose proceeds can be invested in environmental infrastructure.

4. **Community Engagement** – there is a continuous need to not only engage public, private, nonprofit and academic stakeholders, but also municipal, councils of government, and other community-level officials. Empowering impacted communities, especially

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vulnerable communities, through near-term engagement (i.e., informing, consulting, and involving) to long-term engagement (i.e., collaborating and empowering) is vital to identifying needs to support the development of programs and the success of investments in projects to achieve their intended impacts.

5. **Vulnerable Communities** – with a key goal to “strengthen Connecticut’s communities, especially vulnerable communities, by making the benefits of the green economy inclusive and accessible to all individuals, families, and businesses,” as is the goal for “clean energy,” the Green Bank will ensure that by the end of 2025 no less than 40 percent of investment and benefits (e.g., jobs) in “environmental infrastructure” are directed to vulnerable communities.

In FY 2023, the Green Bank continued its progress developing its environmental infrastructure business unit and programs by:

- **Building the Team** – hiring several critical positions including the Manager of Community Engagement and Director of Environmental Infrastructure, as well as qualifying a suite of contractors to support the work of the business unit;
- **Continuing Engagement** – wrapping up stakeholder outreach for water, and continuing engagement of municipal and regional governments, especially those in vulnerable communities (e.g., Bridgeport, Hartford);
- **Raising Resources** – identifying and realizing opportunities for federal (i.e., GGRF) and foundation (i.e., Robert Woods Johnson Foundation) funding, and developing the Green Liberty Bonds to raise proceeds from the issuance of bonds to provide capital for investment;
- **Launching New Products** – developing existing financing products for clean energy (i.e., Smart-E Loan, C-PACE) to support environmental infrastructure measures; and
- **Conducting Research and Development** – continuing to identify research opportunities to develop markets for carbon offsets and ecosystem services for the purposes of generating revenues from projects as a result of Green Bank investments.

In FY 2024, the Green Bank will continue to make steady developing its environmental infrastructure business unit and programs including, but not limited to:

- **Strategic Assessment of Market Readiness** – identification and synthesis of market conditions, readiness, and opportunities across sectors, including resources needed to develop, expand, or launch new programs and markets;
- **Continuing to Build the Team** – identification of critical positions and/or contractual support services to implement programs and opportunities based on the strategic assessment;
- **Continuing Engagement** – initiating stakeholder outreach for waste and recycling, continuing engagement of municipal and regional governments, especially those in vulnerable communities;

- **Explore Stakeholder Advisory Committee** – explore the formation of an Environmental Infrastructure Stakeholder Advisory Committee to engage various state agencies to act as liaisons to the Green Bank.\(^{54}\) Consider other important engagement or advisory opportunities with strategic organizations, stakeholders, and/or municipalities;

- **Raising Resources** – identifying, seeking, and receiving funding opportunities from federal (e.g., IIJA, IRA, GGRF) and foundation (e.g., grants, program related investments (“PRIs”)). In 2024, develop and issue Green Liberty Bonds to raise proceeds to provide capital for investment (e.g., revolving loan fund);

- **Launching or Expanding Existing Products Inclusive of Key Outcomes** – develop and launch existing financing products for clean energy (i.e., Smart-E Loan, C-PACE) to support environmental infrastructure measures. Assess additional clean energy incentive and financing product expansion opportunities in alignment with strategic assessment; and

- **Continue Conducting Research and Development** – continue to identify research and development opportunities for the purposes of generating revenues, including environmental market revenues (e.g., carbon offsets, ecosystem services) from projects as a result of Green Bank investments.

### 5.1 Confronting Climate Change and Vulnerable Communities

Given the mission of the Green Bank, investments in environmental infrastructure must seek to confront climate change (i.e., mitigate GHG emissions and increase resilience against its impacts) and increase investment in vulnerable communities – see Figure 3. The combination of land conservation, parks and recreation, agriculture, and water – together “green infrastructure” or “nature-based solutions” – provide an opportunity for the Green Bank, in partnership with public, private, nonprofit, municipal and other stakeholders, to mobilize investment.

**Figure 3. Confronting Climate Change and Enabling Investment in Vulnerable Communities through Environmental Infrastructure**

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\(^{54}\) Per Section 5.3 Advisory Committees within its bylaws, the Green Bank may form advisory committees to advise and assist the Board or management in the performance of its statutory responsibilities.
Through stakeholder engagement, the Green Bank recognizes the opportunity for investment in nature-based solutions that protect land and water from loss, improve management of natural resources for productive use in the economy, and restore native cover – all of which help Connecticut confront climate change – see Figure 4.

Figure 4. Nature-Based Solutions and Green Infrastructure

In terms of the Green Bank’s vulnerable communities prioritization, the following is a goal for Environmental Infrastructure Programs:

- By 2025, no less than 40 percent of investment and benefits (e.g., reduction in air and water pollution, increase in resilience, public health improvement, jobs) from Environmental Infrastructure Programs is directed to vulnerable communities.

The following is a succinct breakdown of each area of environmental infrastructure, including links to more detailed guides or primers based on stakeholder outreach.
5.2 Environmental Markets – Carbon Offsets and Ecosystem Services

Carbon offsets are measurable outcomes from carbon sequestration activities, traded in voluntary (e.g., requiring verification and certification) and compliance (e.g., RGGI) markets, whereby regulations, sustainability priorities, and public relations are motivators for buyers and sellers. Ecosystem services are the benefits people obtain from ecosystems.\(^{55}\) Fundamentally, ecosystem services markets are designed to embed the positive benefits (e.g., public health, resilience) and negative impacts (e.g., GHG emissions) of individuals on natural resources into market-based systems which financially incentivize environmental stewardship, conservation, and rehabilitation of natural ecosystems.

Environmental infrastructure projects that involve carbon offsets and ecosystem services can be quantified and sold in markets to generate additional earned revenues from the projects.

At present, the Green Bank has one carbon offsets project, using methodology VM0038\(^{56}\) and VMD0049\(^{57}\) published under the Verified Carbon Standard (“VCS”) Program, administered by the nonprofit Verra. This methodology allows those with the rights to electric vehicle charging infrastructure to earn carbon credits based on vehicle charging activity.

This project is a third-party aggregation, with the Green Bank as the sole project proponent, and all partners assigning to the Green Bank the rights and title to the environmental attributes of electric vehicle (“EV”) charging transactions, so that the associated data sets may be converted into carbon offsets to make verifiable, permanent and liquid (tradable) claims of emissions avoidance.

The Green Bank led the development of this methodology with several partners going back to 2016 and worked with a consortium of partners\(^{58}\) to submit for credits in 2021 for activity from 2016-2021.\(^{59}\) Credits were certified, verified, and minted in the fall of 2022. The Green Bank is currently preparing to file for activity for calendar years 2021 and 2022 and expects to file for credits on behalf of its partners going forward for the life of the project, through 2041. For the basics on environmental markets, see Guide – Environmental Markets.\(^{60}\)

5.3 Land Conservation

Nature-based solutions such as protecting intact lands from loss (e.g., forestlands, wetlands), improving the management of working lands (e.g., sustainably certified timberlands), and restoring native land cover, including coastlines, can both mitigate GHG emissions that cause climate change (e.g., forest carbon sequestration) and increase resilience against the impacts of climate change (e.g., flood protection).

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\(^{55}\) Provisioning services (e.g., food, water, fuel, wood), supporting services (e.g., nutrient cycling, soil formation, habitat provision, primary production), regulating services (e.g., climate regulation, flood regulation, water purification), and cultural (e.g., spiritual, aesthetic, educational, and recreational).

\(^{56}\) [https://verra.org/methodologies/vm0038-methodology-for-electric-vehicle-charging-systems-v1-0/](https://verra.org/methodologies/vm0038-methodology-for-electric-vehicle-charging-systems-v1-0/)

\(^{57}\) [https://verra.org/methodologies/vmd0049-activity-method-for-determining-additionality-of-electric-vehicle-charging-systems-v1-0/](https://verra.org/methodologies/vmd0049-activity-method-for-determining-additionality-of-electric-vehicle-charging-systems-v1-0/)

\(^{58}\) Partners include: AmpUp, Blink Dominion Energy, EV Match, EV Structure, Exelon, Opconnect, OptiWatt, and UGO. We have been facilitated by the expertise brought by the Climate Neutral Business Network.

\(^{59}\) [https://verra.org/new-methodology-for-ev-charging-systems-approved/](https://verra.org/new-methodology-for-ev-charging-systems-approved/)

The following is the market potential for land conservation from the perspective of forestland – see Table 6.

Table 6. Market Potential for Land Conservation in Connecticut based on Forest Land

<table>
<thead>
<tr>
<th>Land in Connecticut</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Land</td>
<td>1,869,761</td>
</tr>
<tr>
<td>Non-Forest Land</td>
<td>1,336,001</td>
</tr>
<tr>
<td>Protected Core Forests</td>
<td>298,994</td>
</tr>
<tr>
<td>Unprotected Core Forest</td>
<td>568,857</td>
</tr>
<tr>
<td>Non-Core Forest</td>
<td>1,001,910</td>
</tr>
<tr>
<td>Urban Area</td>
<td>1,130,000</td>
</tr>
<tr>
<td>Other Non-Urban and Non-Forest</td>
<td>206,001</td>
</tr>
</tbody>
</table>

To retain the multiple benefits that forests provide, there is a “no net loss of forest” policy goal.

The following is a breakdown of the land conservation target outlined in the CGS 23-861 – see Table 7.

Table 7. Progress Towards the Open Space Land Target in Connecticut (as of December 31, 2019)

<table>
<thead>
<tr>
<th>Land in Connecticut</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Goal (@10%)</td>
<td>320,576</td>
</tr>
<tr>
<td>Partner Goal (@≥11%)</td>
<td>352,634</td>
</tr>
<tr>
<td>No Land Conservation (@79%)</td>
<td>2,532,552</td>
</tr>
<tr>
<td>State Forests</td>
<td>175,000</td>
</tr>
<tr>
<td>State Parks</td>
<td>36,000</td>
</tr>
<tr>
<td>Wildlife Area</td>
<td>46,000</td>
</tr>
<tr>
<td>and Other</td>
<td>63,500</td>
</tr>
<tr>
<td>Cities and Towns</td>
<td>84,000</td>
</tr>
<tr>
<td>Water Companies</td>
<td>99,000</td>
</tr>
<tr>
<td>Non-Profit Land Trusts</td>
<td>66,000</td>
</tr>
<tr>
<td>left to achieve target</td>
<td>104,000</td>
</tr>
</tbody>
</table>

Of the open space goal of 21% by 2023 (i.e., 673,210 acres), approximately 510,249 acres are conserved (as of December 31, 2019), or 76% of the open space goal comprising 261,806 acres of state (i.e., 82% of the 10% state target) and 248,953 acres of partner (i.e., 71% of the partner target) – leaving an estimated 162,451 acres of open space left to achieve. If the average land acquisition cost is $9,000 per acre, then approximately $1.5 billion of public and private investment in land conservation would be needed to acquire and protect over 160,000 acres of open space in order to achieve the 21% target.

As the Green Bank looks to increase and accelerate private investment in land conservation, it will be exploring the following financing tools, including, but not limited to:

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62 33 locations

63 107 locations

64 Including wildlife management areas, fish hatcheries, flood control, natural area preserve, water access, wildlife sanctuaries, and other
- Carbon offset markets
- Ecosystem services markets
- Pay-for-Performance
- Eco-Labeling (e.g., FSC Certified)
- Green Liberty Bonds
- Buy-Protect-Sell Revolving Loan Fund
  - Predevelopment Financing
  - Bridge Financing
  - Traditional Debt Financing
- Forest Investment Fund

For further details on the market opportunity, see Primer – Land Conservation.

5.4 Parks and Recreation

Infrastructure investments in parks and recreation can both mitigate the GHG emissions that cause climate change (e.g., carbon sinks from urban tree canopy cover) and increase resilience against the impacts of climate change (e.g., stormwater management through urban parks, improve public health).

The following is a breakdown of the market potential for parks and recreation from the perspective of active and passive outdoor recreation facilities, and on “land” or “water” based activities from the Statewide Comprehensive Outdoor Recreation Plan (“SCORP”) – see Table 8.

### Table 8. Outdoor Recreation Facilities in Connecticut (2005)

<table>
<thead>
<tr>
<th>Outdoor Recreation Type</th>
<th># of Facilities</th>
<th>DIRPS per 10,000 Residents</th>
<th>Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Statewide Average</td>
</tr>
<tr>
<td>Active – Land</td>
<td>4,788</td>
<td>1.4</td>
<td>4%</td>
</tr>
<tr>
<td>Active – Water</td>
<td>137</td>
<td>0.4</td>
<td>2%</td>
</tr>
<tr>
<td>Passive – Land</td>
<td>1,957</td>
<td>1.0</td>
<td>27%</td>
</tr>
<tr>
<td>Passive – Water</td>
<td>1,130</td>
<td>1.1</td>
<td>22%</td>
</tr>
<tr>
<td>Total</td>
<td>8,012</td>
<td>1.2</td>
<td>14%</td>
</tr>
</tbody>
</table>

The Trust for Public Land’s (“TPL”) ParkScore Index is a comprehensive rating system to measure how cities are meeting the needs for parks. In an effort to assess ParkScore, the following data are for Connecticut’s “Top 10” most populated municipalities with respect to park access – see Table 9.

### Table 9. “Top 10” Most Populated Municipalities in Connecticut and ParkScore

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66. Active outdoor recreation facilities based on 2005 data (X – #) and 2017 use frequency index data, if available (# – Y), include fields, courts, and courses for baseball and softball (984 – 16.0), basketball (645 – 23.0), football (154 – 10.0), golf (125 – 13.6), multi-use (624), soccer (495 – 14.6), tennis (384 – 11.2), and volleyball (74 – 23.0), as well as playgrounds (1,065), swimming pools (137 – 60.9), and winter sports (238 – 9.3)
67. Passive outdoor recreation facilities based on 2005 data (X – #) and 2017 use frequency index data, if available (# – Y) include access to sites for beaches (176 – 60.1), boating (285 – 10.9), camping (88 – 13.5), fishing (669 – 19.0), gardens (109), historic landmarks (99 – 35.9), hunting (88 – 3.5), picnics (677), and trails (896 – 102.8)
68. Discrete Identifiable Recreation Places
69. The “% of Land as Parks,” “# of Parks,” and “10-Minute Walk” data were used from TPL’s ParkScore data set.
<table>
<thead>
<tr>
<th>City</th>
<th>Population</th>
<th>Acres</th>
<th>% Land as Parks</th>
<th>Acres of Land as Parks</th>
<th>Acres of Parks per 10,000 Residents</th>
<th># of Parks</th>
<th>Parks per 10,000 Residents</th>
<th>10-Minute Walk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hartford</td>
<td>121,203</td>
<td>11,136</td>
<td>9%</td>
<td>1,002</td>
<td>83</td>
<td>218</td>
<td>18.0</td>
<td>99%</td>
</tr>
<tr>
<td>New Haven</td>
<td>130,764</td>
<td>11,968</td>
<td>12%</td>
<td>1,436</td>
<td>110</td>
<td>128</td>
<td>9.8</td>
<td>96%</td>
</tr>
<tr>
<td>West Hartford</td>
<td>63,063</td>
<td>13,952</td>
<td>20%</td>
<td>2,790</td>
<td>442</td>
<td>48</td>
<td>7.6</td>
<td>82%</td>
</tr>
<tr>
<td>Stamford</td>
<td>129,302</td>
<td>24,064</td>
<td>5%</td>
<td>1,203</td>
<td>93</td>
<td>54</td>
<td>4.2</td>
<td>74%</td>
</tr>
<tr>
<td>New Britain</td>
<td>72,303</td>
<td>8,576</td>
<td>7%</td>
<td>600</td>
<td>83</td>
<td>23</td>
<td>3.2</td>
<td>73%</td>
</tr>
<tr>
<td>Bridgeport</td>
<td>143,653</td>
<td>10,304</td>
<td>7%</td>
<td>721</td>
<td>50</td>
<td>35</td>
<td>2.4</td>
<td>73%</td>
</tr>
<tr>
<td>Waterbury</td>
<td>106,458</td>
<td>18,240</td>
<td>6%</td>
<td>1,094</td>
<td>103</td>
<td>30</td>
<td>2.8</td>
<td>60%</td>
</tr>
<tr>
<td>Norwalk</td>
<td>88,326</td>
<td>14,656</td>
<td>3%</td>
<td>440</td>
<td>50</td>
<td>45</td>
<td>5.1</td>
<td>55%</td>
</tr>
<tr>
<td>Bristol</td>
<td>59,639</td>
<td>16,896</td>
<td>4%</td>
<td>676</td>
<td>113</td>
<td>20</td>
<td>3.4</td>
<td>51%</td>
</tr>
<tr>
<td>Danbury</td>
<td>84,732</td>
<td>26,880</td>
<td>5%</td>
<td>1,344</td>
<td>159</td>
<td>17</td>
<td>2.0</td>
<td>37%</td>
</tr>
</tbody>
</table>

The quality of parks is difficult to discern. To better understand the quality of parks, TPL partnered with the Urban Resources Institute ("URI") to compare New Haven against the nation's most populous cities on five (5) categories reflective of an excellent city park system: Acreage,\(^{70}\) Access,\(^{71}\) Investment,\(^{72}\) Amenities,\(^{73}\) and Equity\(^{74}\) – see Table 10.\(^{75}\)

<table>
<thead>
<tr>
<th>City</th>
<th>Overall</th>
<th>Acreage</th>
<th>Access</th>
<th>Investment</th>
<th>Amenities</th>
<th>Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Haven, CT</td>
<td>60</td>
<td>36</td>
<td>95</td>
<td>35</td>
<td>71</td>
<td>65</td>
</tr>
<tr>
<td>Boston, MA</td>
<td>-</td>
<td>47</td>
<td>100</td>
<td>79</td>
<td>65</td>
<td>79</td>
</tr>
<tr>
<td>Baltimore, MD</td>
<td>-</td>
<td>25</td>
<td>81</td>
<td>68</td>
<td>40</td>
<td>83</td>
</tr>
<tr>
<td>Buffalo, NY</td>
<td>-</td>
<td>25</td>
<td>85</td>
<td>47</td>
<td>61</td>
<td>64</td>
</tr>
</tbody>
</table>

The TPL-URI research also delves deeper into the twenty (20) neighborhoods of New Haven to collect data with respect to population, acres of parks, and acres per 1,000 population, as well as demographic data including income and people of color. Based on data from TPL from 14,000 cities, parks that serve low-income households are four (4) times as crowded as parks that serve high-income households, and parks that serve people of color are five (5) times as crowded as parks that serve majority-white populations.\(^{76}\) Such analyses in municipalities

\(^{70}\) Acreage score indicates the relative abundance of large 'destination' parks, which include large natural areas that provide critical mental health as well as climate and conservation benefits.

\(^{71}\) Access score indicates the percentage of the city's residents that live within a walkable half-mile of a park – the average distance that most people are willing to walk to reach a destination.

\(^{72}\) Investment score indicates the relative financial health of a city's park system, which is essential to ensuring parks are maintained at a high level for all to enjoy.

\(^{73}\) Amenities score indicates the relative abundance of six park activities popular among a multi-generational cross-section of user groups (i.e., playgrounds, basketball courts, dog parks, senior and recreation center, splashpads, and permanent restrooms).

\(^{74}\) Equity score indicates how fairly parks and park space are distributed within a city, including percentage of people of color and low-income households within a 10-minute walk of a park, and comparison of the amount of park space between neighborhoods by race and income.

\(^{75}\) For example, a score of 90 means that the municipality is within the top 90 percent across the country.

\(^{76}\) “The Heat is On” by The Trust for Public Lands
across Connecticut could elucidate opportunities for areas of improvement, including improving the public health of residents (e.g., reducing urban heat island effects) with access to parks and the economic development impact of property values within proximity to parks. Through its research and development efforts, the Green Bank has supported TPL and other community-based nonprofits to conduct a similar assessment for Hartford, the birth and burial place of Frederick Law Olmstead.

As the Green Bank looks to increase and accelerate private investment in parks and recreation, it will be exploring the following financing tools, including, but not limited to:

- Carbon offset markets
- Ecosystem services markets (e.g., Park Rx)
- Pay-for-Performance
- Green Liberty Bonds
- Tax Increment Financing
- Buy-Protect-Sell Revolving Loan Fund
  - Predevelopment Financing
  - Bridge Financing
  - Traditional Debt Financing

For further details on the market opportunity, see Primer – Parks and Recreation.

### 5.5 Agriculture

Nature-based solutions such as protecting farmlands from loss and improving farming practices, can both mitigate GHG emissions that cause climate change (e.g., climate smart agriculture) and increase resilience against the impacts of climate change (e.g., flood protection).

The following is a breakdown of the market potential for “agriculture” (i.e., farmland), including other natural forms of land cover (i.e., forestland and wetlands) – see Table 11.

#### Table 11. Land Cover in Connecticut (2015)

<table>
<thead>
<tr>
<th>Land Cover</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developed Land</td>
<td>233,847</td>
</tr>
<tr>
<td>Farmland</td>
<td>1,873,471</td>
</tr>
<tr>
<td>Forestland</td>
<td>1,873,471</td>
</tr>
<tr>
<td>Wetlands</td>
<td>129,153</td>
</tr>
<tr>
<td>Other Lands</td>
<td>20,955</td>
</tr>
</tbody>
</table>

More than 70% of Connecticut's land is farmland, forestland, or wetland. From 2001 through 2016, approximately 6% of the state's farmland was converted to urban or low-density residential development – placing the state in the top three nationally in percent of farmland lost to development.

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78 UCONN CLEAR Project – 2015 Land Cover
79 Includes “Developed,” “Turf & Grass,” and “Other Grasses” classifications
80 Includes “Deciduous Forest,” “Coniferous Forest,” “Forestland,” and “Utility-Right-of-Way (Forest)” classifications
81 Includes “Water,” “Non-Forested Wetlands,” and “Tidal Wetlands” classifications
82 Includes “Barren” classification
The long-term goal of the Farmland Preservation Program, which was set back in the 1980’s, is to preserve 130,000 acres of farmland – see Table 12.

**Table 3. Progress Towards the Farmland Preservation Program Target in Connecticut**

<table>
<thead>
<tr>
<th>Land in Connecticut</th>
<th>3,205,762 Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>381,539 Acres</td>
<td>Farmland</td>
</tr>
<tr>
<td>148,609 Acres</td>
<td>Farmland</td>
</tr>
<tr>
<td>113,355 Acres</td>
<td>Woodland</td>
</tr>
<tr>
<td>31,923 Acres</td>
<td>Pastureland</td>
</tr>
<tr>
<td>87,652 Acres</td>
<td>Other(^{86})</td>
</tr>
<tr>
<td>130,000 Acres</td>
<td>Preserved Farmland Goal</td>
</tr>
<tr>
<td>48,744 Acres</td>
<td>Preserved</td>
</tr>
<tr>
<td>81,256 Acres</td>
<td>Not Preserved</td>
</tr>
</tbody>
</table>

As of October 2020, the Farmland Preservation Program has protected nearly 49,000 acres on 418 farms with agricultural conservation easements – leaving 81,000 acres of farmland left to preserve.\(^{86}\) If the average real estate value of an acre of farmland in Connecticut in 2019 was $12,200, and Purchasing Development Rights (“PDR”) is 30-50% of value, then between $300 to $500 MM of public investment (e.g., through the Connecticut Department of Agriculture (“DoAg”) and/or USDA-Natural Resources Conservation Service (“NRCS”)) would be needed to protect 81,000 acres of farmland to achieve the 130,000 acres of farmland preserved target.

As the Green Bank looks to increase and accelerate private investment in agriculture, it will be exploring the following financing tools, including, but not limited to:

- Carbon offset markets
- Ecosystem services markets
- Pay-for-Performance
- Eco-Labeling (e.g., Connecticut Grown)
- Green Liberty Bonds
- Linked Deposits
- Buy-Protect-Sell Revolving Loan Fund
  - Predevelopment Financing
  - Bridge Financing
  - Traditional Debt Financing
- Farmland Investment Fund
- Loan Guarantees (e.g., Smart-E Loan)

For further details on the market opportunity, see Primer – Agriculture.\(^{87}\)

### 5.6 Water

Water infrastructure and market opportunities in Connecticut are complex. Water is managed through several state agencies (i.e., DEEP, DPH), including issuing green bonds by the Office of the Treasurer, and federal departments (i.e., EPA).

Per PA 21-115, there are several boundaries with respect to what the Green Bank can do with respect to water, including:

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\(^{84}\) USDA Economic Research Service – 2017 data
\(^{85}\) Land in house lots, ponds, roads, wasteland, etc.
\(^{86}\) Connecticut Department of Agriculture, Farmland Preservation Programs Report (January 2022)
- **Environmental Infrastructure Fund** – may not receive funds from the Clean Water Fund pursuant to sections 22a-475 to 22a-438f, or funds collected from a water company as defined in section 25-32a; and

- **Apply for Federal Assistance** – may not apply directly or through a subsidiary to be eligible for federal grant assistance under the Clean Water Act, 33 USC 1251 et seq., nor the Safe Drinking Water Act, 42 USC 300f et seq., without the approval of the State Treasurer, Commissioner of Energy and Environmental Protection, and Commissioner of Public Health.

As a result of these restrictions, and since Connecticut’s State Revolving Fund (“SRF”) hasn’t invested in green infrastructure, the Green Bank will focus its efforts on nature-based solutions (e.g., land conservation) and stormwater (e.g., green roofs), as well as its financing programs (e.g., Smart-E Loan, C-PACE) to help end-use customers improve water on their property. It should be noted that within PA 21-115, that municipalities can create stormwater authorities.

As a result of climate change, there is increased possibilities of instream (i.e., ecological, recreational) and out-of-stream (i.e., drinking, industry, agriculture, energy needs) water shortages from droughts as a result of heat waves, flooding as a result of rain bombs, and other adverse local impacts. These impacts are likely to impact vulnerable communities first and worst, as evidenced by recent flooding impacts on stormwater systems.

As the Green Bank looks to increase and accelerate private investment in water, in collaboration with its state agency partners, it will be exploring the following financing tools, including, but not limited to:

- Ecosystem services markets
- Pay-for-Performance
- Green Liberty Bonds
- Linked Deposits
- Loan Guarantees (e.g., Smart-E Loan)
- Buy-Protect-Sell Revolving Loan Fund
  - Predevelopment Financing
  - Bridge Financing
  - Traditional Debt Financing
- Linked Deposits
- Traditional Debt Financing
- Loan Guarantees (e.g., Smart-E Loan)

For further details on the market opportunity, see Primer – Water.

**5.7 Waste and Recycling**

In 2024, the Green Bank will explore opportunities to enable private investment in Connecticut’s waste and recycling infrastructure.

It should be noted that the Green Bank is a leading financier of food waste and farm waste to energy projects that utilize anaerobic digesters and combined heat and power to reduce methane and produce renewable natural gas for onsite clean energy.

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88 Hansen, K., Thomas, T., Vo, S., Berven, K., Moudgalya, P., Vedachalam, S. (2022). Financing Green Stormwater and Natural Infrastructure with Clean Water State Revolving Funds. by the Environmental Policy Innovation Center – EPIC. (pp 11)
89 “Hartford to Get $85M for Sewage System Fix” by Deidre Montague in the Hartford Courant (June 27, 2023)
6. Citizen and Community Engagement – Green Bonds US

The Green Bank, and its predecessor the CCEF, have a long-standing history of community engagement in Connecticut. In 2002, the CCEF partnered with six private foundations93 to co-found SmartPower – which launched the 20 percent by 2010 campaign and led the administration of the CCEF’s EPA award-winning Connecticut Clean Energy Communities Program to engage citizens in signing-up to purchase clean energy.94 Then in 2013, the Green Bank launched a series of Solarize campaigns in communities across the state in partnership with SmartPower and the Yale Center for Business and the Environment to help citizens install solar PV on their homes,95 while also advancing the SunShot Initiative of the U.S. Department of Energy ("USDOE") in partnership with the Clean Energy States Alliance through projects that reduce soft-costs for solar PV (i.e., customer acquisition, permitting, and financing) and provide better access to solar PV for LMI households.

Citizen and community engagement have been in the DNA of the Green Bank since its inception. In 2022, in collaboration with the Greater Bridgeport Community Enterprises and Operation Fuel, the Green Bank continued its efforts to learn more about community engagement by seeking to understand the importance of community benefit agreements through the Communities Local Energy Action Plan ("Communities LEAP") pilot program of the DOE.96 The Green Bank is reaching citizens and communities through various ways including green bonds, community match funds, community-based campaigns, municipal assistance programs, and eventually community benefit agreements.

6.1 Green Bonds US

Whether through markets or within communities, the Green Bank is bringing people together and strengthening the bonds we share with one another. As the name of the Comprehensive Plan suggests – “Green Bonds US” seeks to promote a simple but critically important message; green, the environment, bonds us, brings us together, the environment unites us. The simple slogan combines the financial tool of green bonds that are being sold to retail investors across the United States with a unifying message that humanity and the environment are inextricably linked.

CGS Section 16-245n(d)(1)(C) is the enabling statute that allows the Green Bank to issue revenue bonds for up to 25 years for clean energy and 50 years for environmental infrastructure projects to support its purposes. Green Bonds are bonds whose proceeds are used for projects or activities with environmental or climate benefits, most usually climate change mitigation and adaptation. Research shows that citizens across the US, including Connecticut, are interested in seeing their investments go towards green projects – see Table 13.97

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93 Emily Hall Tremaine Foundation, The John Merck Fund, Pew Charitable Trust, The Oak Foundation, Rockefeller Brothers Fund, and Surdna Foundation
95 “Solarize Your Community: An Evidence-Based Guide for Accelerating the Adoption of Residential Solar” by the Yale Center for Business and the Environment.
96 https://www.energy.gov/communitiesLEAP/communities-leap
97 2022 Brand Awareness Digital Survey by Great Blue for the Connecticut Green Bank (October 2022)
To enable everyday citizens with an opportunity to invest in the green economy, the Green Bank created two fixed income securities — Green Liberty Bonds and Green Liberty Notes, which have three features:

1. **Use of Proceeds** — funds raised from the bonds must go towards projects that support the Paris Agreement (i.e., mitigation of GHG emissions or adaptation to the impacts of climate change);

2. **Retail Accessible** — like the Series-E War Bonds of the 1940’s, bonds must be small denomination (i.e., less than $1,000) and available to everyday retail investors; and

3. **Independently Certified and Verified** — due to the expectation by retail investors that the use of proceeds will go towards projects that support the Paris Agreement, the bonds must be independently certified and verified as green.

**6.2 Green Liberty Bonds**

In April of 2019, the Green Bank issued $38.6 million in green asset backed securities — its first rated debt issuance and the first ever solar asset-backed security (“ABS”) transaction by a green bank. The issuance was certified by Kestrel Verifiers and independently assessed by Climate Action Reserve. In July 2020, the Green Bank issued $16.8 million in a Special Capital Reserve Fund (“SCRF”) backed Green Liberty Bond that was Climate Bond Certified. And in April 2021, the Green Bank sold out $25 million in Green Liberty Bonds drawing four times as much demand as could be fulfilled from retail investors in Connecticut and across the U.S., as well as institutional investors interested in sustainability investments.

In March and December of 2020, and June of 2022, the Green Bank’s Green Liberty Bonds were awarded for innovation and green bond structure by Environmental Finance, The Bond Buyer, and Clean Energy States Alliance respectively.

The Green Bank will look towards its Green Liberty Bonds, and ability to use SCRF, to support its clean energy and environmental infrastructure efforts.
6.3 Green Liberty Notes
In January of 2022, the Green Bank, in collaboration with Raise Green, began a two-year campaign to raise $2 million by providing an opportunity for citizens to invest as little as $100 to confront climate change. Issuances are anticipated quarterly. Of the six (6) issuances through FY23, four were sold out resulting in an extension for a third year and an increase per quarterly issuance from $250,000 to $350,000. Investment by everyday citizens in Green Liberty Notes supports Eversource’s SBEA program, administered through the Conservation and Load Management Plan, which helps small businesses reduce their energy consumption through deploying energy efficient equipment. As a result of the climate benefits associated with this program, the offering was reviewed and verified for its environmental attributes by Kestrel Verifiers.

To attract more investors, the program offers one-year maturity notes, with $100 minimums, that are easy to purchase through an online platform without a broker. The Green Liberty Notes were created as an investment companion to Green Liberty Bonds, which have been offered in $1,000 minimums to retail and institutional investors through brokerage firms.

6.4 Sustainable CT and Community Match Fund
The strategic partnership between Sustainable CT98 and the Green Bank is focused on the following key priorities:

- Driving investment in projects in our communities, with a goal to accelerate over time;
- Community-level engagement, from project origination through financing, that is inclusive, diverse, and “knitted”;
- Creating a structure that harnesses all types of capital for impact – from donations to investment;
- Developing a business model that covers the cost of the program; and
- Creating a measurable impact, both qualitative and quantitative.

Sustainable CT’s voluntary certification program99 for Connecticut’s cities and towns provides thirteen (13) action areas (e.g., inclusive and equitable communities, well stewarded land and natural resources, renewable and efficient energy) to achieve bronze, silver, or gold status, including a climate leader designation. The Green Bank works closely with Sustainable CT to encourage local actions that are consistent with the respective missions of the organizations. In FY24, the Green Bank will focus on working with Sustainable CT to expand its support for modernizing environmental infrastructure.

Also, in collaboration with Patronicity, Sustainable CT has developed a community matching grant platform to raise capital in support of local projects that provide individuals, families, and businesses with funding opportunities to make an impact on sustainability in their communities.

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98 https://sustainablect.org/
99 https://sustainablect.org/actions-certifications
This online crowdfunding platform enables citizen leaders to have access to financial resources (i.e., matching grants) that they need to support local sustainability projects.

For more information on Sustainable CT’s Community Match Fund, visit https://www.patronicity.com/sustainablect

6.5 Community-Based Campaigns
The Green Bank has once again partnered with the Yale School of the Environment,100 to support USDOE-funded Solar Energy Evolution and Diffusion Study 3 (“SEEDS 3”). SEEDS 3 research builds on nearly a decade of work investigating the peer-to-peer effects of solar PV adoption – how do prospective solar PV customers make the decision to adopt and how do people talk to each other about going solar. Professor Gillingham developed a community-based solar adoption strategy that accelerated the adoption of solar in Connecticut through various Solarize campaigns.101

SEEDS 3 expands on this work to investigate the co-adoption of solar, storage, and electric vehicles. The Green Bank will support Professor Gillingham as he initiates and runs community-based solar plus storage campaigns over the next two years. We will leverage the learnings that these campaigns create to refine our storage marketing messages to assist ESS in achieving its goals.

6.6 Municipal Assistance Programs
Supported by public policy,102 the Green Bank continues to support municipalities in their sustainability initiatives through the Solar Marketplace Assistance Program for Towns and Cities (“Solar MAP”).103 Many Connecticut towns, primarily smaller towns, are challenged to get through the many project steps preventing them from taking advantage of clean energy. Solar MAP provides turnkey support from start to finish to make it easier for towns to identify projects that will provide savings, to access necessary incentives and Green Bank financing, and to add much-needed capacity to manage project implementation and construction. The program administers a competitive solicitation to select a construction partner and bring more projects to the market to grow our state’s clean energy economy. Projects are bundled into portfolios to achieve economies of scale driving down project costs and delivering better savings a town wouldn’t experience if they acted alone. With feedback from contractors and municipalities, the Green Bank integrated additional transparency into the Programs’ status and activities and developed a clearer mission and target audience. Solar MAP aims to support municipalities that are underserved by the market, typically towns that are smaller in population and/or town staff without recent history of doing solar projects. The comprehensive program support and refined mission help better serve municipalities and the clean energy market.

100 Professor Ken Gillingham and the Yale Center for Business and the Environment
102 CGS 16-245n “…stimulate demand for clean energy and deployment of clean energy sources that serve end use customers in the state...” (i.e., 16-245n(c)); and “…shall (i) develop separate programs to finance and otherwise support clean energy investment in residential, municipal, small business and larger commercial projects...” CGS 16-245n(d)(1)(B).
7. **Investment**

The Green Bank pursues investments that advance market transformation in green investing while supporting the organization’s pursuit of financial sustainability. With the mission to confront climate change, the Green Bank leverages limited public resources to scale-up and mobilize private capital investment in the green economy of Connecticut.

7.1 **State Funds**

The Green Bank receives public revenues from a number of sources that are leveraged to mobilize multiples of private capital investment in the green economy of Connecticut.

**System Benefit Charge**

As its primary source of public revenues, the Green Bank through CGS 16-245n(b) receives a 1 mill per kilowatt-hour surcharge called the Renewable Energy Investment Fund or Clean Energy Fund (“CEF”) from ratepayers of Eversource Energy and Avangrid. The CEF has been in existence since Connecticut deregulated its electric industry in the late 1990s. On average, households contribute between $7-$10 a year for the CEF, aggregating to about $25 million per year, which the Green Bank leverages to attract multiples of private capital investment in clean energy through its Financing Programs.

**Regional Greenhouse Gas Emission Allowance Proceeds**

As a secondary source of public revenues, the Green Bank receives a portion (i.e., 23%) of Connecticut’s RGGI allowance proceeds through CGS 22a-174(f)(6)(B). The Green Bank invests RGGI proceeds to finance clean energy projects through its Financing Programs. It should be noted that with the passage of PA 22-25, that allowance proceeds received in excess of $5.2 million from the Green Bank’s portion of RGGI, are to be directed to DEEP for the purposes of supporting electric school buses in environmental justice communities.

7.2 **Federal Funds**

The Green Bank receives public revenues through a number of past, current, and future sources of federal funds as well that it leverages to scale-up and mobilize private capital investment in the green economy of Connecticut.

**American Recovery and Reinvestment Act**

Through the American Recovery and Reinvestment Act (“ARRA”) the CCEF received $20 million for its programs and initiatives. After nearly $12 million of those funds were invested as grants, the Green Bank repurposed and invested the remaining $8.2 million in financing programs. With $600,000 of ARRA funds left, the Green Bank invested over $7.6 million of ARRA funds to attract and mobilize $167 million of public and private investment in residential clean energy financing programs.

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105 The Clean Energy Fund should not be mistaken with the Conservation Adjustment Mechanism (or the Conservation and Loan Management Fund), which is administered by the EDCs

106 There have been ongoing public policy proposals at the national level that the Connecticut Green Bank has been a part of to create a US Green Bank. If such a public policy were passed, then the Connecticut Green Bank would have access to significant federal funds to leverage to scale-up and mobilize private capital investment in the green economy of Connecticut.

107 As of June 30, 2022

**Infrastructure Investment and Jobs Act**
As a result of the IIJA, significant federal resources are being made available to local and state governments through formula grants, and through competitive requests for proposals from budget allocations across many federal agencies. The Green Bank has been an active participant in the various federal agency public engagement processes under the IIJA and IRA.

The Green Bank will compete for and pursue federal funding opportunities to support its programs, where appropriate, including:

- **Department of Energy’s Loan Program Office**\(^\text{110}\) – on March 25, 2022, the Loan Program Office (“LPO”) of the DOE presented to the Board of Directors of the Green Bank,\(^\text{111}\) and the Green Bank subsequently followed with public comments to the DOE on July 1, 2022.\(^\text{112}\) Specifically, the LPO presented the new State Energy Financing Institutions (“SEFI”) provisions within the IIJA that amended Title 17 to (1) include projects receiving financial support or credit enhancements from SEFIs as eligible projects, and (2) clarifies that such projects do not require “new or significantly improved technologies” to qualify.\(^\text{113}\) As defined by the DOE-LPO, the Green Bank is a SEFI.

Subsequently, through the passage of the IRA, a congressional appropriation for Title 17 ensued, which triggered the expansion of the LPO’s authority including enabling SEFI. LPO can now augment state-administered clean energy programs, providing additional financial support to projects that align federal energy priorities with those of U.S. states like Connecticut. Qualifying project participation may include equity, loan loss reserves, co-lending (i.e., by the SEFI providing debt financing which may be pari-passu with or subordinate to LPO funding or financial support), and other financing mechanisms for eligible technologies such as renewable energy, energy efficiency, fuel cells, hydrogen, energy storage, and more.

The Connecticut Green Bank, in collaboration with other states (e.g., New York Green Bank, Massachusetts Community Climate Bank or the Rhode Island Infrastructure Bank), can individually or collectively apply to the LPO or support other proposals submitted to the LPO through SEFI to leverage federal funding to mobilize private deployment of eligible technologies.

**Inflation Reduction Act**
As a result of IRA, significant federal resources are being made available through investment tax credits (e.g., 25D Residential Clean Energy Credit, 48 Energy Investment Tax Credit) and other resources including the GGRF. These tax credits, along with their associated adders (i.e., energy

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\(\text{109}\) [https://www.ctgreenbank.com/engagement-on-iija-ira/]

\(\text{110}\) It should be noted that the President and CEO of the Connecticut Green Bank voluntarily served on the Biden-Harris Transition Team following the November 2019 elections and was assigned to the DOE team and responsible for ascertaining the LPO.

\(\text{111}\) [https://www.youtube.com/watch?v=TPb7AHRWFhg]

\(\text{112}\) [https://www.ctgreenbank.com/wp-content/uploads/2022/12/3_DOE_LPO_Title-XVII_CT-Green-Bank_Public-Comments_070222.pdf]

\(\text{113}\) [https://www.energy.gov/lpo/state-energy-financing-institutions-sefi-supported-projects]
communities, low-income, domestic content), are consistent with the Green Bank’s efforts to mobilize investment in vulnerable communities through its various incentive and financing programs.

The Green Bank will compete for and pursue federal funding opportunities to support its programs, where appropriate, including:

- **Greenhouse Gas Reduction Fund** – $27 billion GGRF modelled after the Green Bank, comprising:
  - **Solar for All** – $7 billion competition that will provide up to 60 grants to states, tribes, municipalities and nonprofits to expand the number of low-income and disadvantaged communities for investment in residential and community solar, as well as associated storage and other enabling upgrades (e.g., new roof, electric panels, energy efficiency).
  - **Clean Communities Investment Accelerator** (“CCIA”) – $6 billion competition that will fund 2-7 hub nonprofits with the plans and capabilities to rapidly build the clean financing capacity of specific networks of public, quasi-public, and nonprofit community lenders to ensure that households, small businesses, schools, and community institutions in low-income and disadvantaged communities have access to financing.
  - **National Clean Investment Fund** (“NCIF”) – $14 billion competition that will fund 2-3 national nonprofits that will partner with private capital providers to deliver financing at scale to businesses, communities, community lenders, and others.

The Green Bank’s federal competitive funding priority is the GGRF. The Green Bank has been actively involved in all public engagement aspects of the GGRF.114

**United States Department of Agriculture**
The Green Bank has applied to the United States Department of Agriculture (“USDA”) to seek access to low-cost and long-term federal loan funds for the deployment of clean energy in rural communities.115 The USDA has vast lending authority under the Rural Electrification Act of 1936, which enables direct loans, project financing and loan guarantees to a variety of borrowers.

**7.3 Additional Funding Sources**
Per CGS 16-245n, additional funding sources include, but are not limited to:

- Charitable gifts, grants, contributions as well as loans from individuals, corporations, university endowments and philanthropic foundations;

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115 “Rural” communities are defined by a population bound and the various limits depend on the program; at the broadest, “rural” may be considered a town that has a population not greater than 50,000 people. Despite its positioning in a mostly-developed corridor, we estimate Connecticut would have 69% of towns eligible at the 20,000-person limit and 89% of towns at the 50,000-person limit.
- Earnings and interest derived from financing support activities for clean energy projects backed by the Connecticut Green Bank;

- If it qualifies as a CDFI under Section 4702 of the United States Code, funding from the CDFI 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

- Contracts with private sources to raise capital.

8. **Impact**
The Green Bank’s evaluation efforts seek to understand how the increase in investment and deployment of clean energy and environmental infrastructure supported through the Green Bank, result in benefits to society. To that end, the Green Bank has devised an Evaluation Framework and Impact Methodologies for various societal benefits.

8.1 **Evaluation Framework**
The 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.\(^{116}\) This framework focuses primarily on assessing the market transformation the Green Bank is enabling, including:

- **Supply of Capital** – including affordable interest rates, longer term maturity options, improved underwriting standards, etc.

- **Consumer Demand** – increasing the number of projects, increasing the comprehensiveness of projects, etc.

- **Financing Performance Data and Risk Profile** – making data publicly available to reduce perceived technology risks by current or potential private investors.

- **Societal Impact** – the benefits society receives from more investment in and deployment of clean energy.

With the goal of pursuing investment strategies that advance market transformation in green investing, the Green Bank’s evaluation framework provides the foundation for determining the impact it is supporting in Connecticut and beyond across the four (4) “E’s” (i.e., E\(^4\)) – including Economy, Environment, Energy, and Equity.\(^{117}\)

The Evaluation Framework will have to be revised, over time, to include environmental infrastructure, as well as the important role Green Liberty Bonds play in raising capital for investments.

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8.2 Impact Methodologies

To support the implementation of the Evaluation Framework, the Green Bank, working with various public sector organizations, has developed methodologies that estimate the impact from the investment, installation and operation of clean energy projects, including:

- **Jobs** – working in consultation with the Connecticut Department of Economic and Community Development (“DECD”), through the work of Guidehouse (formerly Navigant), the Green Bank devised a methodology that takes investment in clean energy to reasonably estimate the direct, indirect, and induced job-years resulting from clean energy deployment.\(^\text{118}\)

- **Tax Revenues** – working in consultation with the Connecticut Department of Revenue Services (“DRS”), through the work of Guidehouse, the Green Bank devised a methodology that takes investment in clean energy to reasonably estimate the individual income, corporate, sales, and property tax revenues from clean energy deployment.\(^\text{119}\)

- **Environmental Protection** – working in consultation with the USEPA and DEEP, the Green Bank devised a methodology that takes the reduction in consumption of energy and increase in the production of clean energy to reasonably estimate the air emission reductions (i.e., CO2, NOx, SO2, and PM2.5) resulting from clean energy deployment.\(^\text{120}\)

- **Public Health Improvement** – working in consultation with the USEPA, DEEP, and DPH, the Green Bank devised a methodology that takes air emission reductions to reasonably estimate the public health benefits (e.g., reduced hospitalizations, reduced sick days, etc.) and associated savings to society resulting from clean energy deployment.\(^\text{121}\)

- **Equity** – with the passage of PA 20-05, the Green Bank devised a methodology that takes the definition of “vulnerable communities” to track progress towards the goal of ensuring that no less than 40 percent of investment from its programs are directed to vulnerable communities by 2025.\(^\text{122}\)

- **Energy Burden** – working in consultation with DEEP and PURA, the Green Bank devised a methodology that takes actual solar PV production data from meters compared against contractual lease and PPA prices and electricity rates, to estimate the energy burden reduction from financing solar PV.\(^\text{123}\)

Each year, the Green Bank develops additional methodologies that value the impact the Green Bank is helping create in Connecticut and all of society. For more information on the Green Bank’s impact methodologies, visit the Impact page of the website.\(^\text{124}\)

In time, additional impact methodologies will be developed for environmental infrastructure.

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8.3 Green Bond Framework
The Green Bank’s Green Bond Framework\(^{125}\) provides a structure in which the Green Bank can more efficiently and effectively support its efforts to raise capital and deploy more clean energy and environmental infrastructure through the issuance of green bonds.

Connecticut has been at the forefront of state-level efforts to combat the threat of global climate change. In order to increase investment, the Green Bank will use its statutory authority (i.e., CGS 16-245kk) to issue bonds, including green bonds. These are key to sourcing capital for clean energy and environmental infrastructure projects and providing a way for all residents, businesses, and institutions of Connecticut to invest in growing our green economy.

The framework sets out how the Green Bank proposes to use its Master Trust Indenture (“MTI”) in a manner consistent with its purpose and provide the transparency and disclosures investors require to make investment decisions through green bonds. This framework is specifically intended for the MTI approved and adopted April 22, 2020, which establishes the purposes for which the Green Bank may issue green bonds or other public debt. The Framework is established in accordance with the Climate Bonds Initiative (“CBI”) Standard and adheres to the Green Bond Principles issued by the International Capital Market Association.

The Green Bond Framework will have to be revised, over time, to include environmental infrastructure.

9. Reporting and Transparency
The Green Bank has extensive reporting on its financial management and societal impact through various mechanisms. As a recipient of public revenues (i.e., CEF and RGGI allowance proceeds), the Green Bank believes that complete transparency is important to ensure the public’s continued trust in serving its purpose. The Green Bank reports to the Governor’s Office (i.e., Office of Policy and Management (“OPM”)), various committees of cognizance within the CGA (i.e., energy & technology, commerce, environment, and banking), and other departments (e.g., DEEP, Office of Fiscal Analysis).

9.1 Annual Comprehensive Financial Report
An Annual Comprehensive Financial Report (“ACFR”) is a set of government financing statements that includes the financial report of a state, municipal or other government entity that complies with the accounting requirements promulgated by the Governmental Accounting Standards Board (“GASB”). GASB provides standards for the content of an ACFR in its annually updated publication *Codification of Governmental Accounting and Financial Reporting Standards*. An ACFR is compiled by a public agency’s accounting staff and audited by an external American Institute of Certified Public Accountants (“AICPA”) certified accounting firm utilizing GASB requirements. It is composed of three sections – Introductory, Financial, and Statistical. The independent audit of the ACFR is not intended to include an assessment of the

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financial health of participating governments, but rather to ensure that users of their financial statements have the information they need to make those assessments themselves.\textsuperscript{126}

To date, the Green Bank has issued nine (9) ACFR’s, including:

- Fiscal Year Ended June 30, 2014 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2015 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2016 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2017 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2018 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2019 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2020 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2021 (Certificate of Achievement)
- Fiscal Year Ended June 30, 2022

As the “gold standard” in government reporting, the ACFR is the mechanism the Green Bank uses to report its fiscal year financial, investment, and impact performance to its stakeholders. For each of its eight years filing the ACFR with the Government Finance Officers Association the Green Bank has received a Certificate of Achievement for Excellence in Financial Reporting.\textsuperscript{127}

9.2 Annual Report
Beyond the ACFR, the annual reports of the Green Bank are compiled by the marketing staff and include consolidated financial statement information and narratives of various program achievements in a condensed format that can be widely distributed.

To date, the Green Bank has issued eleven annual reports, including:

- Fiscal Year 2012 Annual Report
- Fiscal Year 2013 Annual Report
- Fiscal Year 2014 Annual Report
- Fiscal Year 2015 Annual Report
- Fiscal Year 2016 Annual Report
- Fiscal Year 2017 Annual Report
- Fiscal Year 2018 Annual Report
- Fiscal Year 2019 Annual Report
- Fiscal Year 2020 Annual Report
- Fiscal Year 2021 Annual Report
- Fiscal Year 2022 Annual Report

\textsuperscript{126} The Government Finance Officers Association (GFOA), founded in 1906, represents public finance officials throughout the United States and Canada. GFOA’s mission is to enhance and promote the professional management of governmental financial resources by identifying, developing, and advancing fiscal strategies, policies, and practices for the public benefit. GFOA established the Certificate of Achievement for Excellent in Financial Reporting Program in 1945 to encourage and assist state and local governments to go beyond the minimum requirements of generally accepted accounting principles to prepare CAFRs that evidence the spirit of transparency and full disclosure and then to recognize individual governments that succeed in achieving that goal.

\textsuperscript{127} GAO has yet to designate the FY 2022 ACFR with a Certificate of Achievement
9.3 Auditors of Public Accounts
The office of the Auditors of Public Accounts (“APA”) is a legislative agency of the State of Connecticut whose primary mission is to conduct audits of all state agencies, including quasi-public agencies. Included in such audits is an annual Statewide Single Audit of the State of Connecticut to meet federal requirements. The office is under the direction of two state auditors appointed by the state legislature. The APA audited certain operations of the Green Bank in fulfillment of its duties under Sections 1-122 and Section 2-90 of the CGS.

To date, the APA has conducted four audits, including:

- Fiscal Years 2012 and 2013
- Fiscal Years 2014 and 2015
- Fiscal Years 2016 and 2017
- Fiscal Years 2018 and 2019

9.4 Open Connecticut and Open Quasi
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 to that, the Comptroller’s Office requested that quasi-public agencies voluntarily provide payroll and checkbook-level vendor payment data for display on Open Connecticut. The Green Bank, which was among the first quasi-public organizations to participate, has voluntarily submitted this information since the inception of Open Connecticut. In June of 2020, the Comptroller launched Open Quasi, which provides payroll and checkbook level data for all quasi-public organizations in Connecticut.

For more information, go to https://openquasi.ct.gov/

10. Research and Product Development
As the Green Bank implements its Comprehensive Plan, there will be ongoing efforts to develop market opportunities for future green investments. With the lessons being learned and best practices being discovered in the green economy, the Green Bank’s ability to deliver more societal benefits requires understanding potential opportunities and the development of pilot programs and initiatives to increase and measure impact, including, for example:

- **Ecosystems Services** – increasing understanding of ecosystem services values from environmental infrastructure, will help to identify opportunities to mobilize private investment to maximize GHG emissions reductions and resiliency against climate change. Ongoing support of research studies to understand the value of ecosystem services from environmental infrastructure is important.

- **Carbon Offsets** – continuing to increase understanding of carbon offsets, recognizing their importance within environmental infrastructure (e.g., forest carbon, climate-smart

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128 https://openquasi.ct.gov/
agriculture) and the potential to generate revenues in support of projects, there is need for ongoing support of research studies to understand carbon offset markets.

- **Resiliency** – in its efforts to advance resilience, the Green Bank working with DEEP, Insurance Department, and CIRCA, will seek to better understand labelling (e.g., FORTIFIED by the Insurance Institute for Business and Home Safety), direct install measures, and other programs (e.g., adapting Solarize campaigns to Ruggedize campaigns). To continue to develop ESS, research and pilots for vehicle to grid (“V2G”) may also be pursued.

- **Electric School Buses** – per Public Act 22-25, the Green Bank supported contract extensions for electric school buses (“ESB”) and financial support through RGGI for vouchers in support of ESB deployment in environmental justice communities through the Connecticut Hydrogen and Electric Automobile Purchase Rebate (“CHEAPR”) program. Support for the deployment of ESBs and electric vehicle supply equipment (“EVSE”) will enable increased private investment to support the 100% zero emission ESB goals for 2030 (i.e., environmental justice communities) and 2040 (i.e., all communities).

- **Hydrogen** – per Special Act 22-8,130 and consistent with the definition of “clean energy” under CGS 16-245n, the Green Bank is chair of the task force to study hydrogen power. Recognizing the importance of “green hydrogen” to Connecticut’s fuel cell industry, there may be the need for research on the sources, infrastructure, and uses related to hydrogen.

- **Impact Methodologies** – building on the Green Bank’s leading impact methodologies for “clean energy,” efforts will be undertaken to develop impact methodologies for “environmental infrastructure”.

- **Battery Recycling** – as the co-administrator of the 580 MW Energy Storage Solutions program, understanding the implications, challenges, and opportunities for battery recycling (e.g., lithium-ion batteries) is important.

- **Artificial Intelligence** – undertake research to identify the challenges and opportunities posed by Artificial Intelligence (“AI”) in terms of the Green Bank’s operations and mission.

The Green Bank’s research product development efforts are intended to open-up new market channels for private investment in Connecticut’s green economy through studies, pilot projects, and other initiatives that have the potential for expanding the impact of the Green Bank.

### 11. Budget

#### 11.1 FY 2023 Budget

For the details on the FY 2023 budget– [click here](#).
For details on the FY 2023 revised budget – [click here](#).

### 11.2 FY 2024 Budget
For the details on the FY 2024 budget—[click here](#).
12. Glossary of Acronyms

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<td>ABS</td>
<td>Asset-Backed Security</td>
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<tr>
<td>ACFR</td>
<td>Annual Comprehensive Financial Report</td>
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<td>ACG Committee</td>
<td>Audit, Compliance, and Governance Committee</td>
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<td>AICPA</td>
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<td>AI</td>
<td>Artificial Intelligence</td>
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<td>ARRA</td>
<td>American Recovery and Reinvestment Act</td>
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<td>BEA</td>
<td>Business Energy Advantage</td>
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<td>BIL</td>
<td>Bipartisan Infrastructure Law</td>
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<tr>
<td>BOC Committee</td>
<td>Budget, Operations, and Compensation Committee</td>
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<td>BOD</td>
<td>Board of Directors</td>
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<tr>
<td>CCIA</td>
<td>Clean Communities Investment Accelerator</td>
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<tr>
<td>CEF</td>
<td>Clean Energy Fund (or Renewable Energy Investment Fund)</td>
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<td>CBI</td>
<td>Climate Bonds Initiative</td>
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<td>CCEF</td>
<td>Connecticut Clean Energy Fund</td>
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<td>CDFI</td>
<td>Community Development Financial Institution</td>
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<td>CHEAPR</td>
<td>Connecticut Hydrogen and Electric Automobile Purchase Rebate</td>
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<td>DRS</td>
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<td>EDC</td>
<td>Electric Distribution Company</td>
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<td>ESB</td>
<td>Electric School Bus</td>
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<td>Low-to-Moderate Income</td>
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<td>Acronym</td>
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<tr>
<td>MPA</td>
<td>Master Purchase Agreement</td>
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<td>NCIF</td>
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<td>PDR</td>
<td>Purchasing Development Rights</td>
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<td>V2G</td>
<td>Vehicle to Grid</td>
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