



Joint Committee of the CT EE Board & CGB Board of Directors

Meeting Date

March 23, 2022



JOINT CGB/EEB COMMITTEE MEMBERS

Brenda Watson

Chair
Executive Director
Operation Fuel

Victoria Hackett

Vice Chair
CT Department of Energy and
Environmental Protection (DEEP)

John Harrity

Chair
CT Roundtable on Climate and Jobs

John Viglione

Office of Consumer Counsel

Bryan Garcia

President and CEO
Connecticut Green Bank

Bert Hunter

EVP/CIO Finance
Connecticut Green Bank

Steve Bruno

Eversource

Joel Kopylec

United Illuminating



AGENDA

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

Online

March 23, 2022
1:30 pm – 3:00 pm

1. Call to Order
2. Public Comments (5 min)
3. Review and Approval of Minutes for December 15, 2021 (2 min)
4. Clean Energy Jobs Report – Additional Opportunities for Consideration (45 min)
5. Plan Coordination (15 min)
 - a. Input to FY 2023 Connecticut Green Bank Comprehensive Plan
 - b. Input to 2022-2024 Conservation and Load Management Plan
6. Update on the 2022 Legislative Session (10 min)
7. Other Business (15 min)
 - a. Brief Update: C&I - Government
 - b. Brief Update: C&I – Small and Medium/Large Business
 - c. Brief Update: Residential – Single Family and Multi-Family
8. Adjourn

Join the meeting online at <https://global.gotomeeting.com/join/122448557>

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RESOLUTIONS

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

Online

March 23, 2022
1:30 pm – 3:00 pm

1. Call to Order
2. Public Comments (5 min)
3. Review and Approval of Minutes for December 15, 2021 (2 min)

Resolution #1

Motion to approve the meeting minutes of the Joint Committee for December 15, 2021

4. Clean Energy Jobs Report – Additional Opportunities for Consideration (45 min)
5. Plan Coordination (15 min)
 - a. Input to FY 2023 Connecticut Green Bank Comprehensive Plan
 - b. Input to 2022-2024 Conservation and Load Management Plan
6. Update on the 2021 Legislative Session (10 min)
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ANNOUNCEMENTS

- **Mute Microphone** – in order to prevent background noise that disturbs the meeting, if you aren't talking, please mute your microphone or phone.
- **Chat Box** – if you aren't being heard, please use the chat box to raise your hand and ask a question.
- **Recording Meeting** – we continue to record and post the board meetings.
- **State Your Name** – for those talking, please state your name for the record.



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Joint Committee

Connecticut Energy Efficiency Board and the
Connecticut Green Bank Board of Directors

Online

March 23, 2022



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Agenda Item #1

Call to Order



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Agenda Item #2

Public Comments



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Agenda Item #3

Approval of Meeting Minutes for December 15, 2021

Meeting Minutes

Resolution #1

Motion to approve the meeting minutes of the Joint Committee for December 15, 2021



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Agenda Item #4
Clean Energy Jobs Report
Additional Opportunities for Consideration

Connecticut Clean Energy Industry Report

Continuing to Report Progress



Clean Energy Industry Report

Additional Opportunities for Consideration

- HVAC contracting industry in CT
- Multi-Family support
- Electrification (Heat Pumps)
- Health & Safety remediation
- New Construction & Renovation contractors
- Other Workforce development and/or equity efforts

Supplemental Research Options Overview

1. Technology sector deep dives
2. Economic impact models
3. Mapping
 1. Geographic/ demographic mapping
 2. Resource mapping
4. Stakeholder Engagement
5. Workforce Pathways
6. Priority Populations

Supplemental Research Options I

Technology Sector Deep Dives

- Data includes but not limited to:
 - Workforce needs
 - Policy/ financial support
 - Diversity initiatives
- Sector options include but not limited to:
 - Offshore wind
 - Building efficiency/electrification
 - Heat pumps
 - Electric vehicles

Economic Impact Models

- Projected employment demand by:
 - Technology sector
 - Offshore wind
 - Energy efficiency
 - Electric vehicles
 - Energy storage
 - Industry sector
 - Construction
 - Manufacturing
 - Professional Services
 - Wholesale Trade
 - Utilities
 - Occupation
 - Electricians
 - Wind turbine techs
 - Carpenters

Supplemental Research Options II

Mapping

- Geographic/ demographic mapping options:
 - Training network & jobs
 - Race, ethnicity, income, education-level, etc.
- Resource mapping options:
 - Inventory of federal and state programs
 - Career-building/ wrap-around services
 - Programs for underrepresented communities

Stakeholder Engagement

- Executive Interviews with:
 - Unions & labor associations
 - Utilities
 - Industry
 - Business associations
- Topics include but not limited to:
 - Current programs/ partnerships
 - Recruitment
 - Resource needs
 - Challenges/ opportunities

Supplemental Research Options III

Workforce Pathways

- Identifying specific occupations within a sector, such as building electrification
- Data would include types of businesses, skill sets, certifications, etc. for specific subsets of building electrification (i.e. residential vs. commercial)
- Deliverables to be tailored to multiple audiences:
 - Unions
 - Workforce development orgs
 - Community orgs (to increase minority/women participation)
 - Training and education

Priority Populations

- Workforce surveys identifying:
 - Barriers to entry for specific populations
 - Awareness & perceptions of clean energy
 - Interest in clean energy careers
 - Wages & benefits
 - Career advancement opportunities
 - Career satisfaction

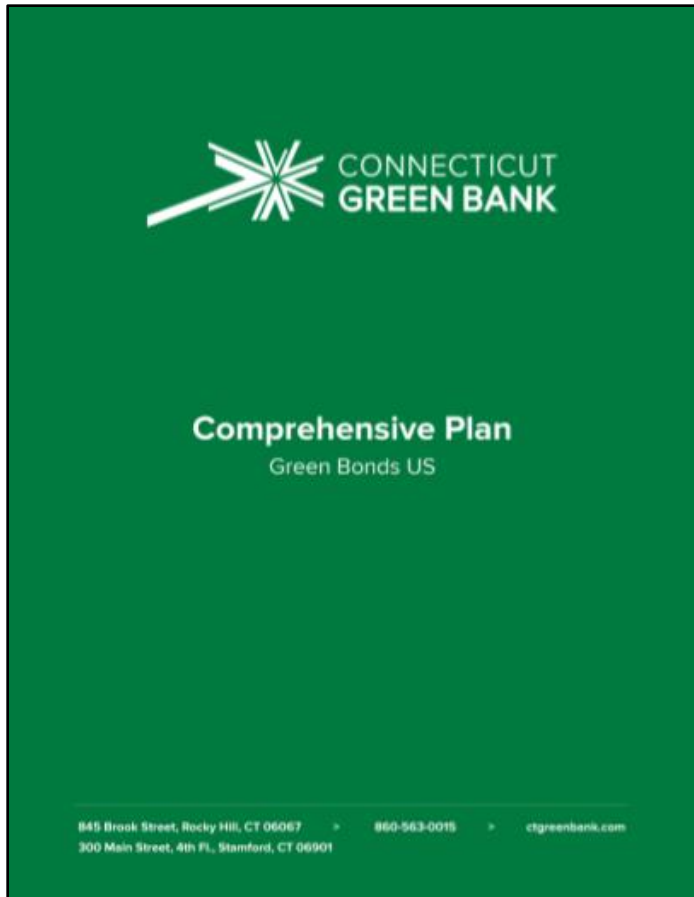


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Agenda Item #5a
Plan Coordination
Connecticut Green Bank
Comprehensive Plan – Green Bonds US

Connecticut Green Bank

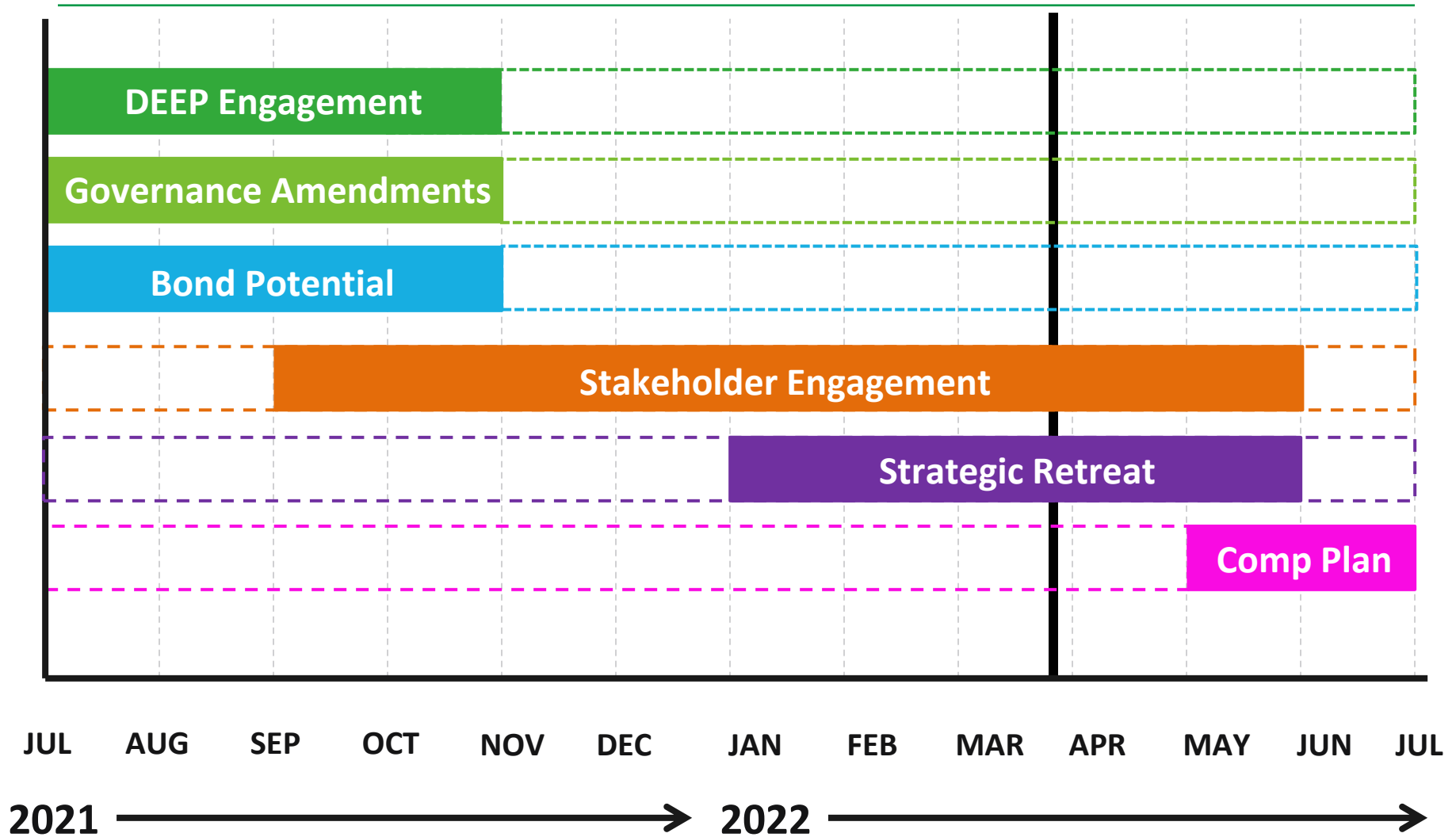
Comprehensive Plan – Green Bonds US



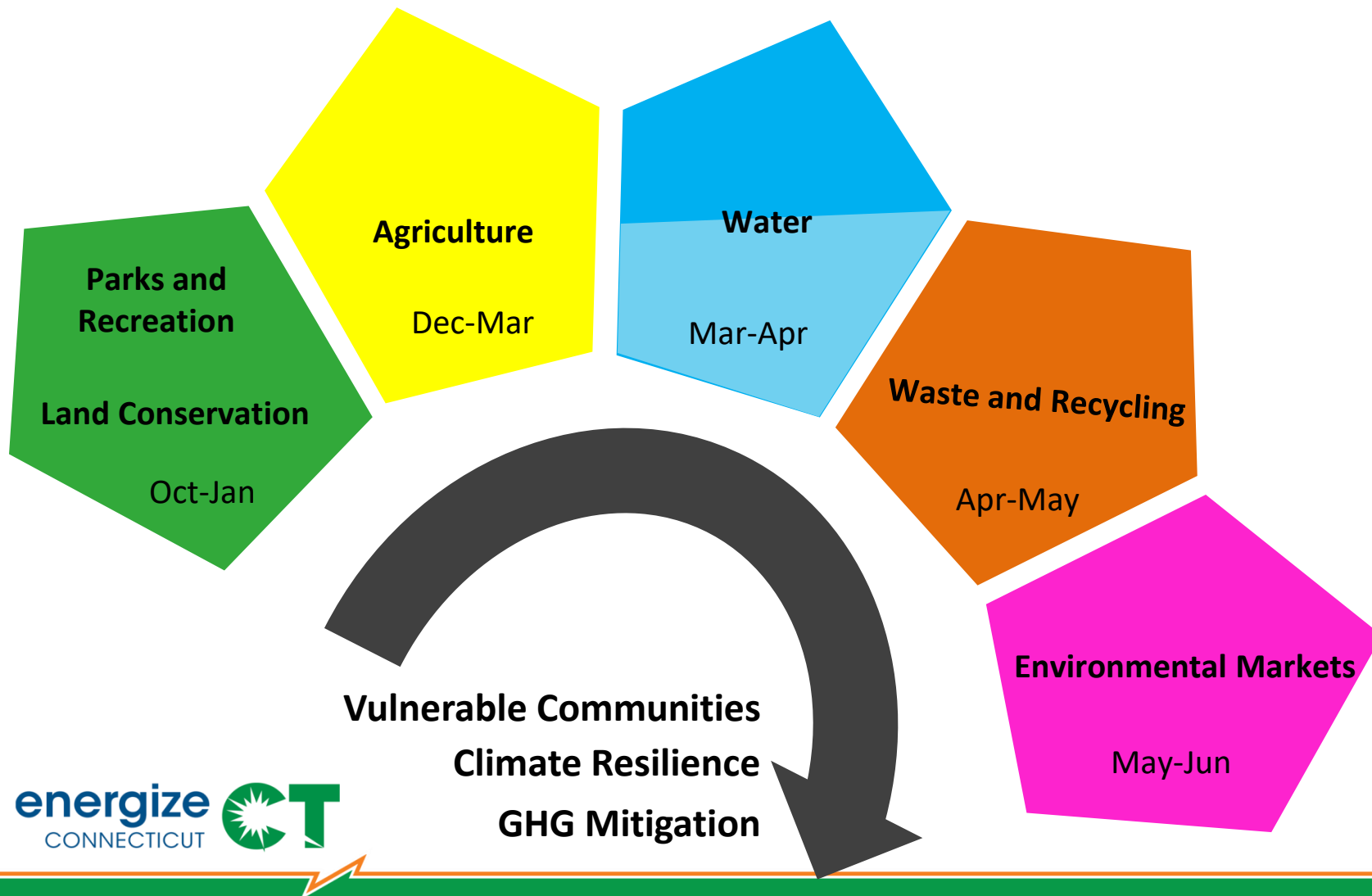
■ Transition Year

- Established target by 2025 no less than 40% of investment and benefits to vulnerable communities (PA 20-05)
 - CRA-eligible communities (i.e., <80% AMI) is key for Green Bank
- Onboarded five new BOD members
- Conclusion of the RSIP (i.e., 350 MW)
- Inclusion of battery storage incentive program (i.e., 580 MW)
- Development of environmental infrastructure (i.e., Comprehensive Plan)

Environmental Infrastructure Process Timeline



Connecticut Green Bank Environmental Infrastructure Process



Environmental Infrastructure Stakeholder Engagement



THE CONSERVATION FINANCE NETWORK

Yale SCHOOL OF THE ENVIRONMENT



Ecosystem Investment Partners



natureVest™

The Nature Conservancy



CONNECTICUT Land Conservation Council



Save the Sound®
Action for our region's environment.



WASHINGTON STATE HOUSING FINANCE COMMISSION





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Agenda Item #5b

Plan Coordination Conservation and Loan Management Plan

Energy Efficiency Board Updates

- Four new Board members joined this year
 - Two vacancies filled
 - Two new legislative slots filled
 - Low-income representative
 - Municipal representative
- Four-session new member onboarding planned for this Spring
- Board's Diversity Equity and Inclusion (DEI) Consultant should start this Spring

2022-2024 Plan Priorities

■ Energy Affordability

- Reducing the energy burden on customers and promoting economic development through lower energy bills, enhanced energy security, and increased reliability

■ Decarbonization

- Supporting high efficiency, low-carbon technologies to reduce greenhouse gas emissions from the building sector to meet legislative/regulatory emission and climate change goals

■ Equity

- Equitable distribution of benefits of energy efficiency and active demand response programs across state, communities, market segments, and customer types



2022-2024 C&LM Plan Highlights

- Setting the stage for electrification
- Transition away from reliance on lighting savings
- Increased multifuel perspective
 - Delivered fuel savings in C&I
- Continued growth in demand response
- Increased workforce development
- Reaching underserved and burdened customers
 - Distressed and Environmental Justice Communities

2022-2024 C&LM Plan Review & Approval

- **December 22: DEEP Determination and Budget Approval**
- **March 1: 2022 Plan Update to the 2022-2024 C&LM Plan filed with DEEP**
- DEEP drafts and distributes Tentative Determination and Conditions of Approval (COA) on 2022-2024 C&LM Plan
- Public comments on Tentative Determination
- DEEP issues Final Determination



2023 C&LM Plan Update to the 2022-2024 C&LM Plan

- **June–October:** Company and Technical Consultant engage on 2023 Plan revisions and enhancements
- **July–September:** Public Input Sessions
- **July–September:** Committee & Board review and discussion of Plan text
- **September 14:** Board vote on 2023 Plan Update text
- **August–October:** Committee & Board review and discussion of 2023 Plan Update:
 - Savings
 - Budget
 - Performance Management Incentives (PMIs)
- **October 12:** Board vote on 2023 Plan Update Savings & Budget
- **November 1:** 2023 Plan Update filed with DEEP

2022-2024 C&LM Plan

\$708 million investment in energy efficiency

Every \$1 invested in energy efficiency results in a \$2.41 return in benefits

Electric lifetime savings of 4.8 billion kilowatt-hours (kWh)

Natural gas lifetime savings of 21.3 billion cubic feet of natural gas (Bcf)

Oil lifetime savings of 81.6 million gallons

Propane lifetime savings of 14.4 million gallons

Combined annual peak demand reduction (active and passive) of 409 Megawatts (MW)



Savings & Benefits

Figure 1-A: 2022-2024 Savings & Benefits*

Year	Budgets (\$000)			Annual Savings							Lifetime Savings	
	Electric	Natural Gas	Total	Electric (GWh) *	Peak (MW) **	Natural Gas (MMcf)	Oil (gallons)	Propane (gallons)	Annual Savings (MMBtus) ***	CO ₂ Emissions (tons)	Lifetime Benefit (\$000)	Lifetime Savings (MMBtus) ***
2022	\$199,845	\$44,878	\$244,723	197	135	382	1,548,671	294,364	1.3	126,510	\$598,196	16.8
2023	\$178,385	\$55,179	\$233,564	170	133	521	1,363,908	258,488	1.3	123,802	\$563,900	17.2
2024	\$173,895	\$55,836	\$229,731	157	141	521	1,351,073	254,667	1.3	118,502	\$544,206	16.8
Total	\$552,124	\$155,893	\$708,017	524	409	1,424	4,263,652	807,519	3.9	368,814	\$1,706,301	50.8

*Abbreviation for Gigawatt hours.

**Savings include demand response programs.

***In millions of MMBtu (one million British Thermal Units). Figures listed are site MMBtus and address only the energy saved at the meter level.

Areas for C&LM Plan and CT Green Bank Coordination

Per Phase 1 Equity in Energy Efficiency (E3)
Proceeding Goal 7:

- *Action 7.1: Work with the CT Green Bank to explore improved financing options for Home Energy Solutions (HES) and HES-Income Eligible customers to access interest-free financing for health and safety barrier mitigation.*
- Continuing to integrate storage and renewables into current program offers
 - Combine with new construction all-electric offers
 - Pairing of HPs with PV (and storage?)
- Joint evaluation of financing activities?





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Agenda Item #5c
Plan Coordination
Comprehensive Energy Strategy



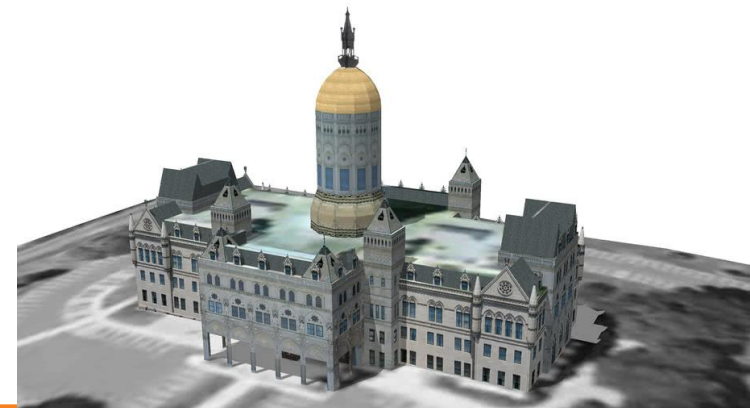
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Agenda Item #6

Update on 2021 Legislative Session

Update on 2022 Legislative Session

- [4 / 5039](#) electric vehicles
- [10](#) zero carbon target
- [14 / 5041](#) residential energy labeling (homeowner / renter)
- [90](#) storage procurement
- [93](#) C-PACE for resilience, EV charging
- [176](#) various SCEF program increases, NRES increase
- [292](#) prohibit fossil heating, DEEP-led contractor training
- [295](#) tax credits for efficient new residential construction
- [372](#) DDS residential facility efficiency
- [5203](#) revenue decoupling,
bill cost component reporting
- [5327](#) EDC storage ownership terms,
critical infrastructure pilot





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Agenda Item #7

Other Business

Status of Financing Programs by Segment

Areas of Collaboration

- **Residential Single Family** – required HES and HES-IE for RRES and ESS incentive programs that launched January 1, Smart-E Loan (including upcoming special offer for RH&C in Spring-Summer 2022), and Smart-E expansion into Environmental Infrastructure (ongoing for 2022).
- **Residential Multifamily** – launching Energy Storage Solutions (i.e., Affordable Housing), focusing on Green Bank Solar PPA and Battery Storage, LIME Loan, C-PACE, and Green Bank Capital Solutions
- **Small Business** – extend and expand SBEA Eversource and Green Bank partnership – Target Q1, 2022
- **Medium to Large Business**– C-PACE, and full integration of Eversource and Green Bank financing partnership into BEA program
- **Institutional** – expanded SBEA to 7 years and up to \$1 MM for municipal and state projects (ES), helping State of Connecticut with its “Lead by Example” implementation, and Solar MAP (in partnership with Sustainable CT) for Green Bank Solar PPA and Battery Storage. Expand access to capital for municipal and state customers through SBEA.

Smart-E Loan – Heat Pump Volume 2020 - 2022

Heat Pump	2020			2021			2022	
	Count	Financed	Percentage of All Loans	Count	Financed	Percentage of All Loans	Count	Financed
Air Source	168	\$2.5M	23%	368	\$6.1M	50%	18	\$287K
Ground Source	16	\$533K	2%	26	\$836K	4%	1	\$40K



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Agenda Item #8

Adjourn



Draft MINUTES

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

Wednesday, December 15, 2021
1:30 - 3:30 p.m.

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

In Attendance

Voting Members: Victoria Hackett (DEEP), John Harrity, Lonnie Reed, Claire Sickinger, Brenda Watson

Non-Voting Members: Stephen Bruno, Bryan Garcia, Bert Hunter

Members Absent:, John Viglione, Donna Wells

Others: Giulia Bambara, Sergio Carrillo, Kate Donatelli, Mackey Dykes, Richard Faesy, Brian Farnen, Sara Harari, Ron Araujo and Joel Kopylec from Avangrid, George Lawrence, Cheryl Lumpkin, Glenn Reed, Joshua Ryor from PURA, Larry Rush, Ariel Schneider, Stacy Sherwood, Lisa Skumatz

Unnamed Callers: None

1. Call to Order

Bryan Garcia called the meeting to order at 1:34 pm.

2. Public Comments

No public comments.

3. Board Matters – Welcome New Member and Chair Nomination and Election

- Bryan Garcia introduced Victoria Hackett from DEEP as a replacement for Michael Li. He also proposed Brenda Watson to serve as the Chair of the Joint Committee. Lonnie Reed nominated Brenda Watson and it was seconded by John Harrity. Brenda Watson accepted the nomination.

Resolution #1

Resolved that Brenda Watson has been elected by the Joint Committee in accordance with its bylaws to serve as its Chairperson.

Upon a motion made by Lonnie Reed and seconded by John Harrity, the Joint Committee

voted to approve Resolution 1. None opposed or abstained. Motion approved unanimously.

Resolution #2

Resolved that Vicki Hackett has been elected by the Joint Committee in accordance with its bylaws to serve as its Vice Chairperson.

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

4. Review and approval of Meeting Minutes from the June 16, 2021 meeting.

Resolution #3

Motion to approve the meeting minutes for June 16, 2021.

Upon a motion made by John Harrity and seconded by Lonnie Reed, the Joint Committee voted to approve Resolution 3. None opposed and Victoria Hackett abstained. Motion approved.

5. Joint Committee – Regular Meeting Schedule for 2022

- Bryan Garcia reviewed the Regular Meeting schedule for 2022 which are March 16, June 22, September 14, and December 14, 2022.
 - Brenda Watson asked if in-person meetings are being considered for 2022. Bryan Garcia answered that tentatively yes, but it is dependent on each person's comfort and safety given COVID-19.
 - Richard Faesy pointed out that the June 22 meeting conflicts with the CTAC meeting which may be an issue for DEEP.

Resolution #4

Motion to approve the 2022 Regular Schedule of Meetings.

Upon a motion made by Victoria Hackett and seconded by Lonnie Reed, the Joint Committee voted to approve Resolution 4. None opposed or abstained. Motion approved unanimously.

6. Clean Energy Jobs Report 2021 – Release Plan

- Bryan Garcia summarized the history of the CT Clean Energy Industry Report and some updates to it, including a consideration to highlight Brenda Watson as the current Chairperson of the Joint Committee within the report. He also proposed ideas for a press release, webinar, and a 2022 report. He noted that BW Research was able to secure the funding for data collection through federal funding, so the Green Bank will not have to pay for that part for 2022.

- Brenda Watson commented that she does not want to take the credit of her predecessor, Eric Brown, within the report, so she's hesitant to accept a highlight of herself. Lonnie Reed suggested featuring both Eric Brown and Brenda Watson as the Chairpersons since it was developed during the transition from one to the next.
- Brenda Watson asked about the planned format of the webinar, whether it be joining other committees to present or by inviting others to one larger event. Lonnie Reed suggested a presentation tour across Connecticut. Bryan Garcia suggested developing a few slides so that committee members can really highlight it wherever they go.
- Glenn Reed noted that there will be references to the 2021 jobs report in the EEB's Annual Legislative Report.

7. Plan Coordination

a. Input to FY 2022 Connecticut Green Bank Comprehensive Plan (Revisions)

- Bryan Garcia summarized the Green Bank's comprehensive plan updates. It has been a transition year between new BOD and Committee members, the conclusion of RSIP, the inclusion of the battery storage incentive program, and the development of environmental infrastructure. As well, a new target was established for no less than 40% of investments and benefits to vulnerable communities by 2025. The Green Liberty Bonds are continuing and expanding to include Green Liberty Notes. The Green Bank is also awaiting the finalization of the Infrastructure and Jobs Act and BBBA.

b. 2022-2024 Conservation and Load Management Plan

- Glenn Reed summarized the 2022-2024 C&LM Plan priorities which are Energy Affordability, Decarbonization, and Equity. The prior plan priorities were adjusted to focus on those main three. There was significant stakeholder input considered for the 2022-2024 plan around several reoccurring themes.
- Glenn Reed reviewed the Plan Review Process which started in November. He summarized several of the three-year plan takeaways as well as some savings and benefits calculated. He highlighted some areas for the C&LM Plan and the Green Bank to continue to coordinate.
 - Brenda Watson asked about the change in priorities and significant stakeholder input. Glenn Reed answered that there has been a change in feedback with a stronger focus on electrification and heat pumps.
 - John Harrity asked if Connecticut had a program to assist people who needed new boilers for their homes and was wondering if those with old furnaces could receive under assistance under the new plan. Glenn Reed answered that there is not currently a broader fuel-switching heat pump program but there are other offerings available, and he reviewed several. Ron Arujo clarified that the programs mentioned are for gas heating equipment, not gas appliances. Stephen Bruno noted there are programs to support financing for heating equipment. John Harrity commented that there may be a gap in support for the average homeowner despite the offerings currently available. Victoria Hackett responded that some issues are being addressed by DEEP in the current C&LM Plan review, which is still just a proposed plan.

8. Equitable Modern Grid Framework – Overview by PURA

- Joshua Ryor presented the Equitable Modern Grid Initiative history and perspective which is framed around the idea of ensuring equitable outcomes which seems to be missing from other grid modernization efforts. He summarized the efforts made to be more equitable and inclusive. He then reviewed its objectives to enable economy-wide decarbonization, to make a more resilient, secure commodity, to advance energy affordability, and to support the growth of a green economy.
- Joshua Ryor summarized the topics that needed to be focused on to meet the objectives. There were 11 investigations done to determine topics, and the first six to focus on are energy affordability, advanced metering infrastructure, electric storage, zero emissions vehicles, innovation pilots, and interconnection standards. Of those six, the first three have their research concluded. He reviewed the next wave of topics to be investigated are non-wire alternatives, resilience & reliability standards & programs, distributed energy resource analysis & program review, and new rate designs.
- To date, a final decision was issued for Electric Storage on July 28, 2021. Joshua Ryor summarized the electric storage program plan. A final decision was issued for a Statewide EV Charging Program to support zero emissions vehicles as of July 14, 2021 and Joshua Ryor explained the elements of the program plan. He also summarized updates made to the other dockets that are currently in the progress.

9. Plans for the 2022 Legislative Session

- Bryan Garcia summarized the items for the upcoming legislative session. The main priority of the Green Bank is to expand C-PACE to allow for resilience projects to be supported by the benefit assessment. Secondly, there is a policy to allow municipalities to move from 5-year to a 10-year contract for electric school buses.
- Victoria Hackett mentioned an upcoming executive order and that the legislative agenda is not yet finalized.

10. Other Business

- Sergio Carrillo summarized the status of and updates to Residential Single Family programs. Mackey Dykes summarized updates to Residential Multifamily programs, SBEA program, Medium to Large Business programs, and Institutional programs. Stephen Bruno commented on the success of the SBEA and municipal programs.
 - John Harrity commented that he is pleased that the C-PACE program is increasing in popularity.

11. Adjourn

Upon a motion made by John Harrity and seconded by Lonnie Reed, the Joint Committee Meeting adjourned at 3:04 pm.

Respectfully submitted,

Brenda Watson, Chairperson



75 Charter Oak Ave
Suite 1 - 103
Hartford, CT 06106

700 Canal Street, 5th Floor
Stamford, CT 06902