

Sustainability Performance Plan FY 2021

CT Green Bank

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*This report was written in compliance with
section 5 of Executive Order 1.*



EO 1 Background

On April 24, 2019, Governor Lamont launched the GreenerGov CT initiative by signing Executive Order 1 (EO 1) which directs Executive Branch agencies to advance environmental leadership and cost savings for taxpayers by reducing greenhouse gas emissions and other sustainability objectives in energy use in buildings and vehicles, water use, and waste disposal.

EO 1 calls on agencies to recommit to and expand the state's Lead by Example (LBE) program to reduce the operating costs and environmental impacts of state government facilities and operations. EO 1 builds on the foundation of the state's LBE program by setting new sustainability goals, listed below, for Executive Branch agencies and invoking deeper levels of commitment and participation.

GHG

45% reduction in
GHG emissions
below 2001 levels

WATER

10% reduction in
water consumption
from a FY20 baseline

WASTE

25% reduction in
waste disposal from a
FY20 baseline

Since the GreenerGov CT initiative was launched, significant progress has been made towards laying the groundwork for expanded LBE initiatives in the future: governance structures were established, baseline data was collected, and financing and project strategies were developed. Additionally, agencies reported completing or making progress on 90+ sustainability projects in FY20 in the annual agency Sustainability Performance Plans. Sustainability Performance Plans are plans drafted each year by Senior Sustainability Officers to detail agency progress and necessary goals, actions, and responsible parties to achieve the targets set in EO 1.

In 2020 and 2021, agencies continued to navigate the COVID-19 pandemic. As many agencies returned to the office in 2021, the GreenerGov CT leadership encouraged agencies to use the return to the office from teleworking as an opportunity to refresh staff practices and to take on new sustainability initiatives. The FY21 Sustainability Performance Plan includes a summary of sustainability actions initiated as part of the "Returning to the Office Greener" call to action.

EO 1 Participation Overview

CTGB's Mission

The mission of the Connecticut Green Bank is to confront climate change and provide all of society a healthier and more prosperous future by increasing and accelerating the flow of private capital into markets that energize the green economy. The Comprehensive Plan of the Green Bank can be found here:

https://www.ctgreenbank.com/wp-content/uploads/2021/07/3_Comprehensive-Plan_FY-2020-and-Beyond_Final.pdf.

FY21 Participation Overview

The Green Bank has primarily been a facilitator for the EO1 effort in terms of the solar installations on state buildings. We have sought to cut our carbon footprint with our moves to more efficient office space in both Harford and Stamford.

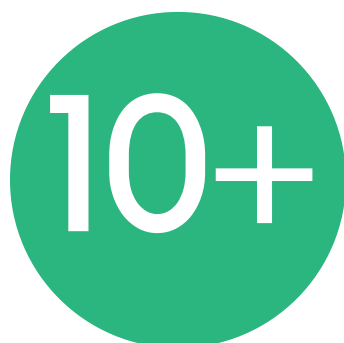
Participating Agency Staff

Mackey Dykes

Matt Macunas

Emily Basham

Eric Shrago



Sustainability Projects

including projects relating to infrastructure improvements or behavioral change that took place in owned, leased, or occupied space and were either in progress or completed in FY21

Sustainability Projects

Project 1

What: The Green Bank is supporting the development of this 870kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Cybulski

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Electricity and cost savings

Savings: 547.92 tons of CO2 and \$58,502.00 in savings.

Project 2

What: The Green Bank is supporting the development of this 758kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Williard

Project type: Structural - Renewable energy

Status: Completed in FY 2021

Benefits: Electricity and cost savings

Savings: 477.22 and \$50,408.00 in savings.

Project 3

What: The Green Bank is supporting the development of this 237kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Enfield

Project type: Structural - Renewable energy

Status: Completed in FY 2021

Benefits: This project will save \$349,665.00 over it's lifetime

Savings: This will avoid the emission of 149.25 CO2/year and \$13,987.00 in savings.

Project 4

What: The Green Bank is supporting the development of this 118.56 kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Robinson

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Cost and energy savings

Savings: 74.63 tons of CO2 and \$6,934.00 in savings.

Sustainability Projects cont.

Project 5

What: The Green Bank is supporting the development of this 274.56 kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Robinson

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Energy and cost savings

Savings: 172.82 tons of CO2 and \$16,087.00 in savings.

Project 6

What: The Green Bank is supporting the development of this 132.2 kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Kensington Fish Hatchery

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Cost and energy savings

Savings: 77.55 tons of CO2 and \$7,561.00 in savings.

Project 7

What: The Green Bank is supporting the development of this 2,425.2 kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Maloney and Webster

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Cost and energy savings

Savings: 1,531.82 tons of CO2 and \$162,678.00 in savings.

Project 8

What: The Green Bank is supporting the development of this 134 kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: 165 Capitol Ave

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Energy and cost savings

Savings: 84.60 tons of CO2 and \$6,134.00 in savings.

Sustainability Projects cont.

Project 9

What: The Green Bank is supporting the development of this 2,199.6kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Manson Youth Institute

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Energy and cost savings

Savings: 1,378.64 tons of CO2 and \$156,269.00 in savings.

Project 10

What: The Green Bank is supporting the development of this 2,270.1kw solar installation at the above site. The Solar will reduce energy costs for the state and lower its carbon footprint.

Where: Osborn

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: Energy and cost savings

Savings: 1,431.67 tons of CO2 and \$153,790.00 in savings

Return to the Office Greener

In FY21, the GreenerGov CT leadership encouraged agencies to use the return to the office from teleworking due to the COVID-19 pandemic as an opportunity to refresh staff practices and habits and to take on new sustainability initiatives. Eleven actions were presented as possible strategies for a more sustainable return to the office, and agencies were asked to pick three actions not already in process. The actions for CTGB are highlighted below.

Returning to the Office Greener Suggested Actions

- | | |
|--|---|
| 1. Identify agency vehicles which could be transitioned to electric models. | |
| 2. Have a No-Cost retro commissioning scoping study to identify HVAC improvement and controls opportunities. | |
| 3. Sign up a building to participate in Eversource's Strategic Energy Management program. | |
| 4. Have a free building energy audit performed to identify basic opportunities to upgrade lighting or weatherization. | |
| 5. Perform a water audit to identify opportunities for fixture replacement or conservation actions. | |
| 6. Check for water leaks using the Fix-A-Leak Checklist. | ✓ |
| 7. Assess the feasibility of hosting solar on your buildings or property. | ✓ |
| 8. Optimize your dumpster size and pickup schedule. | |
| 9. Start an organics diversion/collection program. | |
| 10. Tune up recycling practices. | |
| 11. Make a Green Team of staff invested in making space and operations more sustainable. | ✓ |
| 12. Other actions – In 2021, the Green Bank moved into its new head quarters in Hartford. his location was a former remediated brownfield which has been supported over the years by DECD and DEEP programs. It is located in the Connecticut Nonprofit Center with a number of other nonprofit social service organizations. We have worked with the landlord to improve the seal on the building's thermal envelope and have installed high efficiency heat pumps. We are continuing to partner with the landlord to implement additional efficiency measures and solar+storage to reduce costs and provide resiliency to our community. | |

COVID-19 Impact

Impact of COVID-19 on CTGB's ability to make progress on the goals of EO 1 in FY21

Some minor delays.

COVID-19 changes that have led to a positive sustainability outcome that will continue after the pandemic

Strategically evaluating building footprint needed for agency work	
Reassessing agency fleet	
Holding virtual meetings as a more regular practice	✓
Increased telework as a regular practice	✓
No changes to report	
Other	

Future Planning

Status of FY20 Plans

	Progress has been made	Progress has stalled	Plans have been completed.	Stated plans no longer a priority	Other
GHG Reduction	✓				
Water Use Reduction	✓				
Waste Reduction	✓				

Sustainability Plans Beyond FY21

GHG Reduction

We are working with the building owner on a large solar carport in Hartford. We are building a Green Team to find new ways to reduce our carbon footprint in our offices.

Water Use Reduction

We installed water saving fixtures in our new headquarters in Hartford.

Waste Reduction

We are looking at a composting solution for our office.

Barriers encountered while making EO 1 progress in FY21

Funding	
Staffing	
Technical expertise	
No barriers encountered	✓
Other	