

# Sustainability Performance Plan

FY 2023

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



# Sustainability Performance Plan

Executive Order 1 (EO 1) calls on 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.

The goals of EO 1 include:

- 45% reduction in GHG emissions below 2001 levels,
- 10% reduction in water consumption from a FY20 baseline, and
- 25% reduction in waste disposal from a FY20 baseline.

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.

This report includes details on sustainability initiatives and participation in the GreenerGovCT initiative in FY23.

## Agency Details

**Agency:** Department of Mental Health & Addiction Services

**Senior Sustainability Officer:** Cheryl Arora- Chief Financial Officer

**Date Submitted:** 11/20/2023

## GreenerGov CT Participation Overview

### 1. How has your agency worked towards the sustainability goals of EO 1 in FY23?

The Department incorporates sustainability into projects and into routine building maintenance and repairs at our facilities. Starting in FY23, DMHAS established a Facilities Working Group that meets weekly to assist in the management of modernization projects across all DMHAS sites and facilities. DMHAS has a number of ongoing projects and future projects in development to help meet the goals established in EO 1.

### 2. List key agency staff involved in EO 1 in FY23.

Steven Hecimovich-	Chief of Engineering Services II
Loretta Eisler-	Building Construction Project Supervisor
Christopher Beauty-	Fiscal/Administrator Manager 2
Evette Hecht-	Fiscal/Administrator Manager 1

## Sustainability Projects

3. How many projects has your agency implemented that had a positive impact on sustainability in FY23? Include projects relating to infrastructure improvements as well as behavioral change that took place in owned, leased, or occupied space and were either in progress or completed in FY23.

The Department had five projects in process during FY23 that will have a positive impact on sustainability.

4. Provide a summary of the sustainability projects completed in FY23 at your agency. For each project include:
- Project summary
  - Project location
  - Project status
  - Project benefits
  - Projected savings (in dollars and the appropriate unit of measurement if known)

4.1.

**Project Summary: Installation of ground mounted solar panel arrays**

Project Location: Connecticut Valley Hospital (CVH), Middletown  
Capitol Region Mental Health Center (CRMHC), Hartford

Project Status: Funding for the projects was secured thru Connecticut Green Bank. Memorandums of Understanding for each location are currently being developed.

Project Benefits: Reduction of GHG, with anticipated benefits including utility incentives and cost savings as a result of reduced energy usage.

Projected Savings:	At CVH: 3,761,000 kWh/yr.	~\$980,000/yr
	At CRMHC: 305,321 kWh/yr.	~\$ 80,000/yr

4.2.

**Project Summary: Replacement of Underground Steam Pipes Phase III**

Project Location: Connecticut Valley Hospital, Middletown

Project Status: Phase III of the steam pipe replacement project is 50% complete.

Project Benefits: Reduction in water consumption. The existing 70-year-old steam pipe infrastructure was rusted and leaking. This project will generate cost savings by increasing the efficiency of steam distribution, reducing natural gas use, and reducing the amount of water and water treatment chemicals that are lost through the leaks.

Projected Savings: 1,950,000 Btu per hour during colder months, reduced costs for water.

4.3.

**Project Summary: Replacement of roofs and rigid roof insulation at two locations.**

Project Location: Capital Region Mental Health Center, 500 Vine Street, Hartford  
Capital Region Mental Health Center, 51 Coventry Street, Hartford

Project Status: The projects are currently in the design phase.

Project Benefits: Reduction of GHG, with the elimination of further damage caused by numerous leaks over the years. The new roofs and insulation will create improved heating and cooling efficiencies.

Projected Savings: Completion of these projects are estimated to produce a 20% energy savings. Additionally, a reduction in repair and maintenance costs will be realized through the elimination of leaks.

4.4.

**Project Summary: Retro-Commission (RCx) of Merritt Hall including optimizing pump & chiller performance; enhancing hot water radiant floor heating & pump zone controls; optimizing the steam/hot water heat exchanger systems; enhancing controls for HVAC; adding space unoccupied controls for fan coils.**

Project Location: Connecticut Valley Hospital, Merritt Hall, Middletown

Project Status: Department of Energy and Environmental Protection funding will be used to make building improvements. A Memorandum of Agreement between the Departments is currently being developed for approval.

Project Benefits: Reduction of GHG, as the RCx process will address current operational deficiencies in the building and restore current systems to their optimal operating conditions. This project will improve operational efficiencies through the purchase of new cost-effective advanced control systems as an alternative to large new equipment procurement.

Projected Savings:       Electric: 461,987 kWh/yr ~\$120,000;  
                                  Natural Gas: 68,605 CCF/yr = 20,870 kWh/yr

4.5.

**Project Summary: Replacement of existing oil boiler and associated equipment with new energy efficient natural gas boiler and associated equipment.**

Project Location: Capital Region Mental Health Center, 500 Vine Street, Hartford

Project Status: The project is currently in the design phase.

Project Benefits: Reduction of GHG, through the conversion of fuel source from oil to natural gas and installation of energy efficient equipment.

Projected Savings:       Electric: 70,574 kWh/yr;

Natural Gas: 15,726 CCF/yr = 460,774 kWh/yr

## Future Plans

### **5. What planned sustainability initiatives beyond FY23 does your agency have relating to GHG reduction, water use reduction, and waste reduction?**

The Department has the following sustainability initiatives aimed at reducing GHG emissions underway:

#### Planning Phase:

- Greater Bridgeport Mental Health Center, Bridgeport: Replace existing rooftop HVAC units with new energy efficient units, upgrade lighting, upgrade HVAC management system, replace roof.
- Connecticut Mental Health Center, New Haven: Upgrade lighting and HVAC system, install EV stations.

#### Design Phase:

- Connecticut Valley Hospital, Middletown: Replace Russell Hall windows.
- Connecticut Valley Hospital, Middletown: Replace Transitional Cottage windows.