

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: DESPP

Senior Sustainability Officer: Willis G Ballard IV

Date Submitted: 3/5/2024

GreenerGov CT Participation Overview

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

DESPP has Completed some small projects which have increased the efficiency of the Equipment that was replaced and stopped some water leak issues to save on wasted water. Our goals are to replace failing equipment with the most efficient and sustainable systems we can. Our small replacement projects are completed mainly by Trade Labor contractors, and we work with DAS/CS for our large projects. We are planning on roof replacements at three sites and upgrading the Roof Top Units and mechanical equipment at the sites for better efficiency and electrical savings.

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

Willis G Ballard IV

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.**

Five Projects.

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

DESPP had four projects related to EO 1.

1, Replacement of a fire hydrant at the CT Fire Academy in Windsor Locks. This job is completed and reduced the amount of water being lost in due to the faulty equipment.

2, Replacement of VHP 1 at The DESPP headquarters building in Middletown. A twenty-year-old water sourced heat pump with a new model which meets the sustainability standards in EO 1. The new model is more efficient in CEER ratings and electrical usage.

3, Replacement of the BAC remote sump Tank at the CT Fire Academy in Windsor locks. The replacement of this 30-year-old closed circuit cooling tower was needed due to leaking and failing components. The new model is much more efficient in the HVAC ratings and the electrical usage. There is a water savings also with the leak being stopped.

4, Replacement of the DSS Forensic Laboratory Hot Water Storage Tanks. The existing tanks were 30 years old and two of four were leaking. The changing of the tanks has increased the hot water storage amounts and the tanks are more efficient at keeping the temperature longer which has led to the boilers running less. The water is no longer leaking saving water that was going down the drain.

5, Upgrades to the DSS Forensic Lab in Meriden to the PMI Metasys building management controls. This project to repair and replace aged out building management hardware and software will then control the buildings temperatures and humidity levels so the systems for HVAC throughout the building run more efficiently.

Future Plans

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

DESPP plans are to replace failing HVAC and mechanical systems with new modern and more efficient equipment as projects arise as emergency repair/ replacement.

DESPP has multiple roof replacement projects coming up which will include the replacement of Roof Top Units for HVAC equipment which most is 25 plus years old and past life expectancy. This includes the Fleet building in Colchester, The DSS Forensic Lab in Meriden, and Troop A in Southbury.

DESPP has a Chiller replacement project at the CSP/POST Training Academy which is active and will replace a 2003 chiller that completely failed.

DESPP is monitoring water bills and assessing for possible leaks and making needed repairs.

DESPP Has allocated funds to install individualized heating systems on the Mulcahy Campus in Meriden CT. This project will eliminate two 1960's era boilers that supplied the main campus. Each building will be assessed for new heating systems. This includes Buildings