

Sustainability Performance Plan

FY 2021

Department Mental Health & Addiction Services

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Acting Commissioner

*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

DMHAS's Mission

The Connecticut Department of Mental Health and Addiction Services is a health care agency whose mission is to promote the overall health and wellness of persons with behavioral health needs through an integrated network of holistic, comprehensive, effective services and supports that foster dignity, respect, and self-sufficiency in those we serve.

FY21 Participation Overview

DMHAS continues to move forward with energy projects in FY21 that focus on reducing GHG emissions and Waste disposal at our facilities.

Participating Agency Staff

Steven Hecimovich
Loretta Eisler
Evette Hecht



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: Campus-wide LED lighting upgrades of all exterior site lighting including all building mounted lighting, pole mounted parking area lighting and decorative pole-mounted lighting.

Where: Connecticut Valley Hospital, Middletown

Project type: Structural - GHG - Building energy efficiency

Status: Completed in FY 2021

Benefits: Anticipated benefits include cost savings due to reduced energy usage. Also received financial incentives from utility company.

Savings: Estimated annual electric energy savings of 218,988 kWhs.

Project 2

What: Replaced (31) transformers with high-efficiency transformers in various buildings

Where: Connecticut Valley Hospital, Middletown

Project type: Structural - GHG - Building energy efficiency

Status: Completed in FY 2021

Benefits: Anticipated benefits include utility incentives and cost savings as a result of reduced energy usage.

Savings: Estimated electrical energy usage of 135,328 kWhs.

Project 3

What: Proposal to install ground mount solar panel arrays at each location.

Where: Connecticut Valley Hospital, Capitol Region Mental Health Center

Project type: Structural - Renewable energy

Status: In progress in FY 2021

Benefits: These two location have recently been selected as potential sites for solar panels. Anticipated benefits include cost savings as a result of reduced electricity usage.

Project 4

What: Install (10) recommended ECRMs resulting from the DAS ASHRAE Level 2 Energy Audit.

Where: Connecticut Mental Health Center New Haven

Project type: Structural - GHG - Building energy efficiency

Status: In progress in FY 2021

Benefits: Anticipated benefits include reduced costs and reduced energy usage

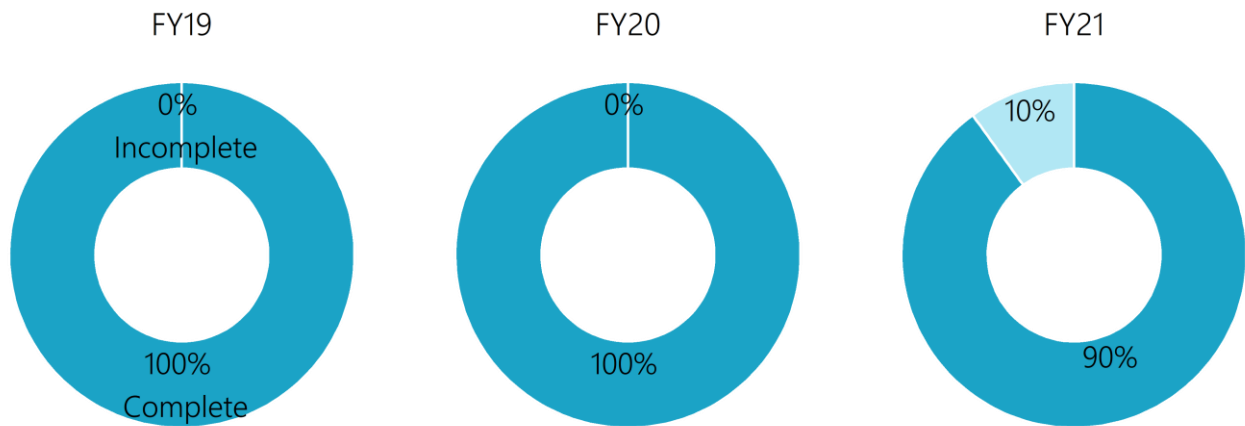
Savings: Reduction of 717,516 kWhs, 2,754 mmBTUs, 431 mtCO₂e.

Performance Data

The following data was pulled from EnergyCAP, the state's utility tracking software, on December 9, 2021. Note that utility data on agencies occupying space owned by another state agency may not be linked to their EnergyCAP accounts.

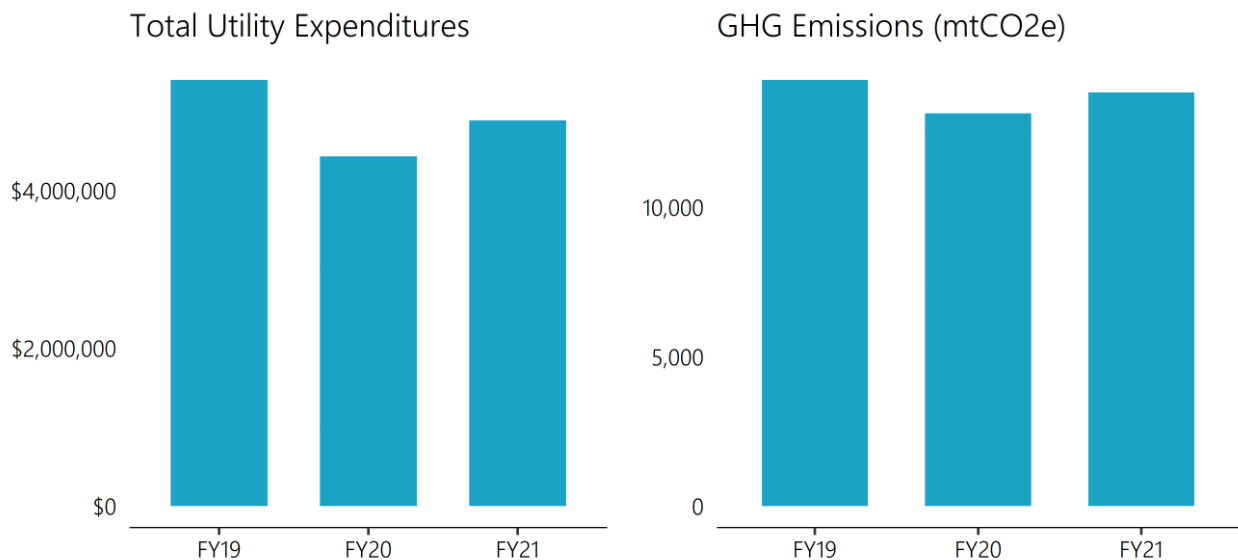
Data Completeness

The charts below display the estimated percent of utility data for DMHAS entered into EnergyCAP. More recently uploaded data may still be 'in queue' awaiting processing by EnergyCAP and will not be reflected in this report.



Data Trends, FY19-FY21

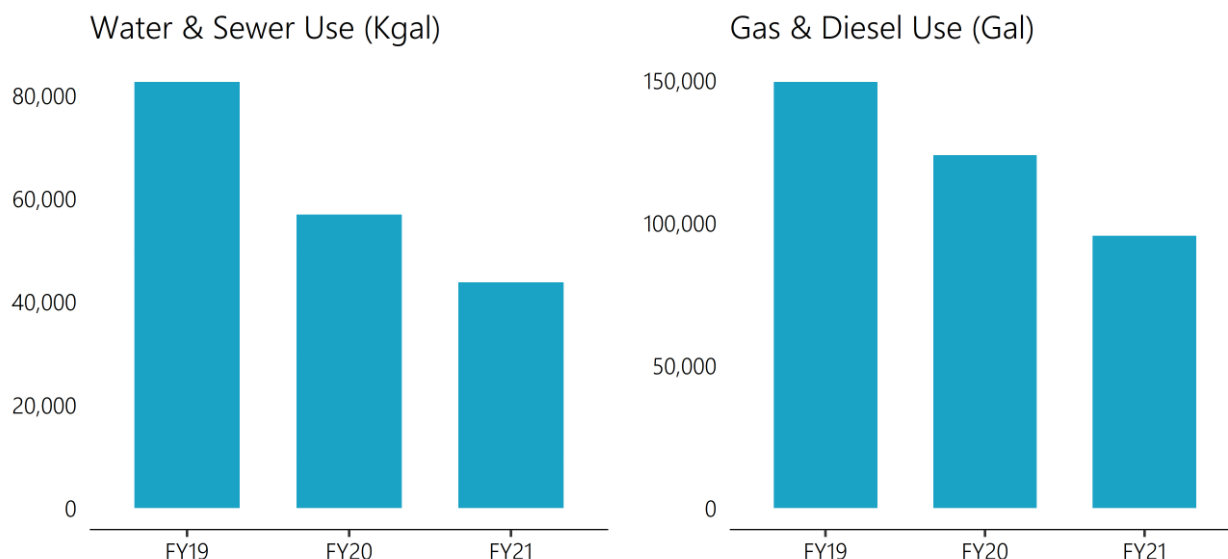
The charts below summarize the total utility expenditures and total GHG emissions for DMHAS for FY19-FY21. Keep in mind that data that is missing or not yet processed in EnergyCAP may cause these numbers to be artificially low.



Sustainability Projects cont.

Data Trends, FY19-FY21 - Continued

The charts below summarize the water and gas/diesel use for DMHAS for FY19-FY21. Keep in mind that data that is missing or not yet processed in EnergyCAP may cause these numbers to be artificially low.



Detailed Utility Use and Cost Data

The table below summarizes the utility use and cost data for DMHAS for FY19-FY21 according to data pulled from EnergyCAP on December 9, 2021. As mentioned previously, keep in mind that this data may be incomplete.

Commodity	Unit	Use				Cost			
		FY19	FY20	FY21	FY19-21 Change	FY19	FY20	FY21	FY19-21 Change
Electric	kWh	19,915,308	17,397,400	19,797,738	-0.6%	\$3,149,334	\$2,601,114	\$2,999,723	-4.8%
Natural Gas	CCF	1,467,596	1,404,826	1,441,835	-1.8%	\$1,221,705	\$1,062,686	\$1,174,946	-3.8%
Oil	Gal	4,285	855	870	-79.7%	\$10,153	\$1,877	\$2,175	-78.6%
Steam	MLB	-	-	2,149	-	-	-	\$108,288	-
Vehicle Gasoline	Gal	135,954	112,027	72,757	-46.5%	\$365,718	\$271,104	\$184,076	-49.7%
Vehicle Diesel	Gal	13,534	11,831	22,774	+68.3%	\$43,985	\$35,020	\$63,996	+45.5%
Total GHG Emissions	mtCO2e	14,263	13,151	13,844	-2.9%	-	-	-	-
Water	Kgal	12,063	11,267	10,042	-16.8%	\$78,383	\$78,307	\$73,816	-5.8%
Sewer	Kgal	70,572	45,670	33,777	-52.1%	\$532,016	\$381,325	\$281,353	-47.1%
Total	-	-	-	-	-	\$5,401,294	\$4,431,433	\$4,888,373	-9.5%

*Gasoline and diesel costs estimated based on average monthly cost from EIA.gov, \$2.53 for gasoline and \$2.81 for diesel in FY21; \$2.42 for gasoline and \$2.96 for diesel in FY20; \$2.69 for gasoline and \$3.25 for diesel in FY19.

6 - DMHAS Sustainability Performance Plan

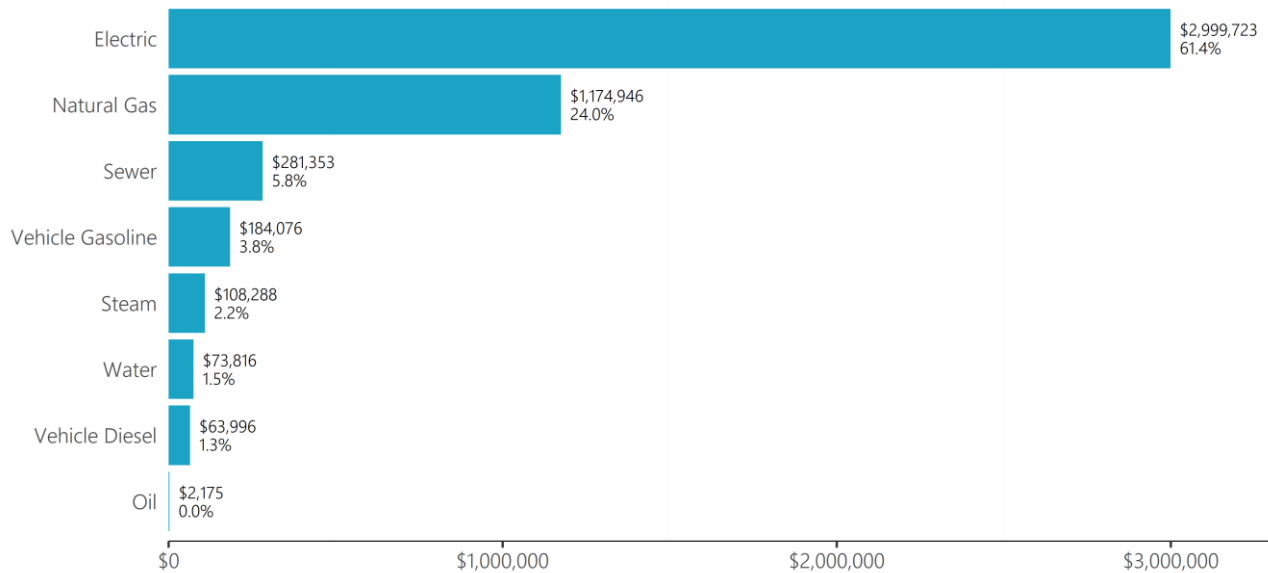
Sustainability Projects cont.

FY21 Data Snapshot

The charts below highlight the breakdown of utility expenditures and GHG emissions by commodity for FY21.

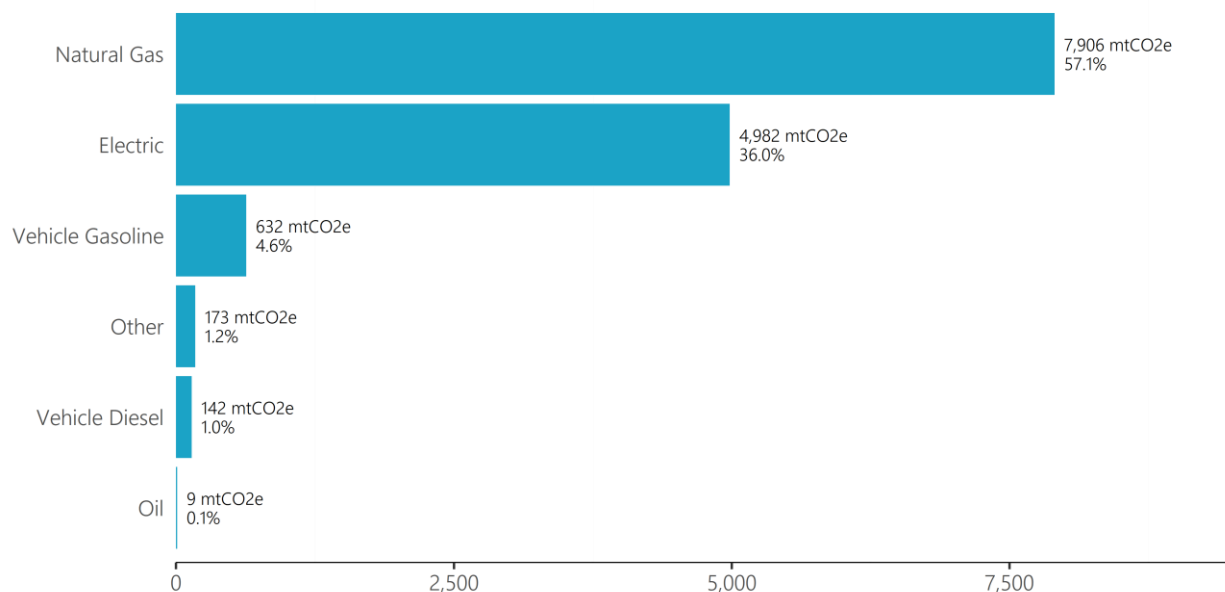
Commodity Cost Breakdown, FY21

The chart below represents the breakdown of commodity costs at DMHAS in FY21.



GHG Emissions Breakdown, FY21

The chart below represents the breakdown of GHG emissions by commodity at DMHAS in FY21.



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 DMHAS 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: | |

COVID-19 Impact

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

Minimal impact on projects though has slowed some progress as vendors and staff adapt to changing COVID policies.

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

Replace 2,000 l.f. of underground steam pipe at CVH.

Water Use Reduction

Steam pipe project noted above will also reduce water usage.

Waste Reduction

DMHAS and DEEP continue to work on developing a waste reduction plan at CVH kitchen. Plan includes reducing food waste downsizing waste containers and improving food preparation procedures to reduce waste.

Resources Needed

Barriers encountered while making EO 1 progress in FY21

Funding	
Staffing	✓
Technical expertise	✓
No barriers encountered	
Other	

Specific type of support or resources needed to make progress on future sustainability projects

Continues funding for energy improvements