

State of Connecticut
FY 2020

Sustainability Performance Plan

Department of Administrative Services

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Senior Sustainability Officers

Approved by Josh Geballe
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 120+ sustainability projects in FY19 in the first 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, the COVID-19 pandemic brought significant changes to the operations of state agencies as agencies responded to the crisis. The impact of the pandemic on the sustainability goals of EO 1 is not yet known, but some effects will be documented in the FY20 Sustainability Performance Plans and the GreenerGov CT Progress Report.

DAS and EO 1

DAS's mission

- Support Connecticut's Growth
- To serve our citizens, businesses, state agencies and other branches of government by providing the highest quality services at the lowest possible cost.
- Drive Continuous Innovation - To increase the efficiency and effectiveness of state government using best practices from the public and private sectors.
- Provide Rewarding Careers - To attract and retain a workforce of talented, dedicated public servants committed to leading our great state forward.

DAS's FY20 participation overview

DAS is a member of the E.O. 1 Steering Committee, and our agency is actively involved with several GHG-reducing initiatives. For example, DAS Fleet has installed new technology in state vehicles that allows them to better track and reduce excessive mileage, idling and fuel consumption. Our Fleet unit is also actively involved in a plan to convert more of the state's fleet to electric and/or hybrid electric vehicles. DAS has also been actively involved with the drafting and execution of a Solar Power Purchase Agreement that will facilitate the installation of solar power generating facilities on or near certain state properties.

DAS staff involvement in EO 1

Steve McGirr
Carol O'Shea
Michael Felix
JoAnn Figueiredo
Tamara Klett
Noel Petra
Michael Barrera

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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 FY20

Sustainability Projects

1

Location: 450 Columbus Blvd

Project Type: Structural - GHG - Building energy efficiency

Description: Installed LED lighting throughout the building to improve energy efficiency and save money. Appx. 5,850 Fixtures installed, with wireless, networked controls, daylight harvesting, occupancy/vacancy detection, high-end/task trimming and scheduling functions enabled.

Status: Completed in FY 2020

Benefits Summary: The LED have been more cost-effective and energy efficient than the previous system. We have documented a decrease in cost compared to the previous system.

Energy savings: Anticipated annual kwh-savings of 1,170,564.54 kwh

Cost savings: Anticipated annual utility cost savings of \$210,707.052 (@ \$0.18/kwh)

2

Location: DAS Fleet

Project Type: Structural - GHG - Vehicle/fleet

Description: DAS is installing GPS Telemetric chips on all state vehicles.

Status: In progress in FY 2020

Benefits Summary: This technology will provide real-time data of all state vehicle locations, speeds, braking, idling and a host of additional data. This will allow DAS Fleet to better manage the state fleet in terms of mileage, idling, unsafe driving and more. Reducing these issues will save money, maintenance costs and reduce GHG emissions.

Performance Data

The following data was pulled from EnergyCAP, the state's utility tracking software, on March 15, 2021. Note that utility data on agencies occupying space owned by another state agency may or may not be linked to their EnergyCAP accounts.

Total Utility Costs

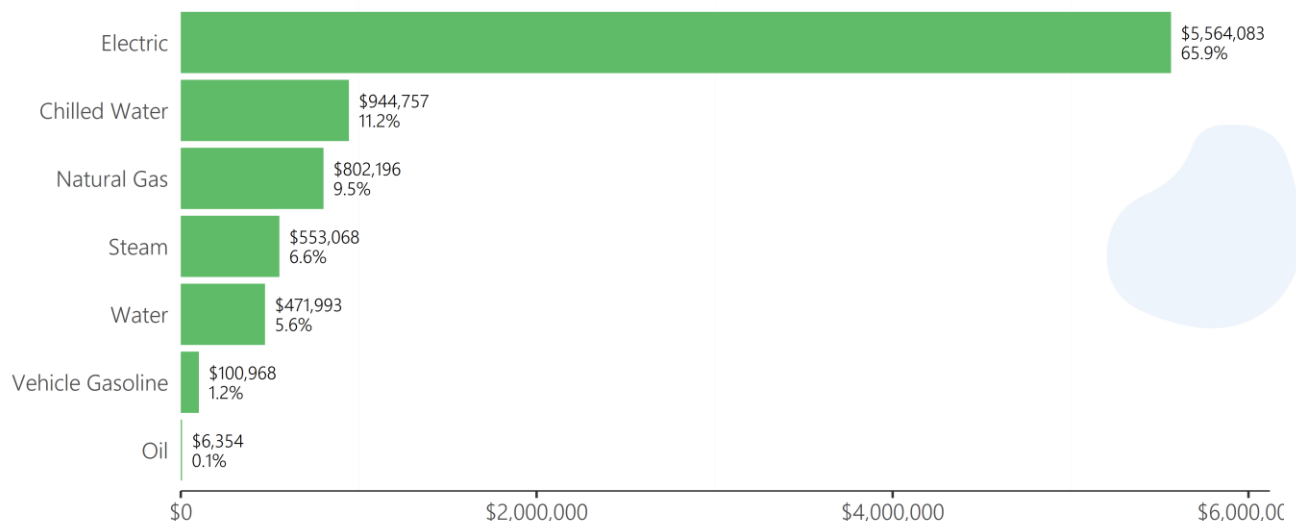
Commodity	Unit	Use			Cost		
		FY19	FY20	Change	FY19	FY20	Change
Electric & Natural Gas	MMBtu	249,000	221,703	-11.0%	\$7,484,095	\$6,366,279	-14.9%
Other Building Energy	MMBtu	1,916	588	-69.3%	\$1,408,531	\$1,504,179	+6.8%
Vehicle Gasoline	Gal	51,862	42,603	-17.9%	\$133,284	\$100,968	-24.2%
Vehicle Diesel	Gal	-	-	-	-	-	-
Total GHG Emissions	mtCO2e	17,235	14,791	-14.2%	-	-	-
Water	Kgal	32,067	40,376	+25.9%	\$339,948	\$471,993	+38.8%
Total	-	-	-	-	\$9,365,858	\$8,443,420	-9.8%

*Gasoline and diesel costs estimated based on average weekly cost from EIA.gov, \$2.37 for gasoline and \$2.96 for diesel in FY20 and \$2.57 for gasoline and \$3.18 for diesel in FY19.

**Other Building Energy sources include oil, propane, steam, and chilled water.

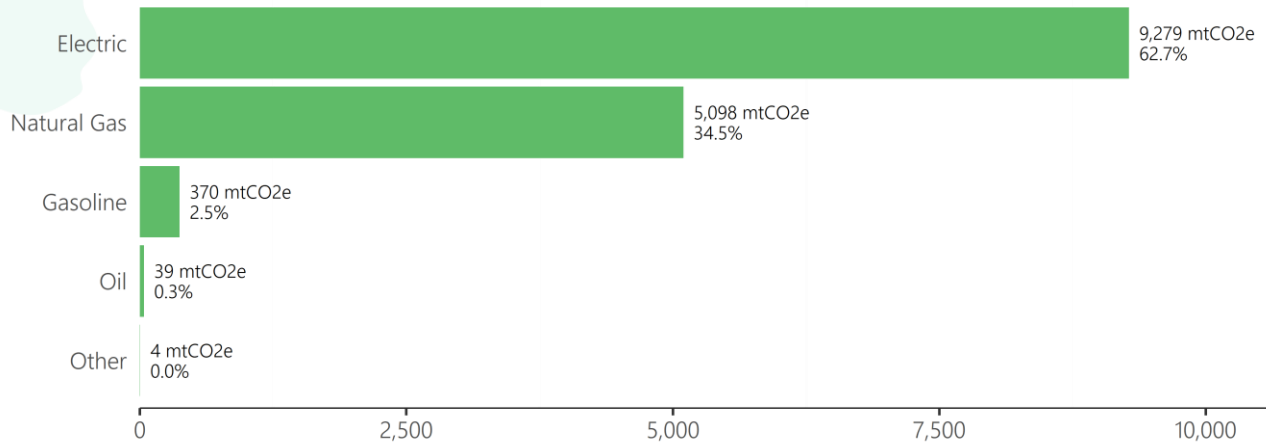
Commodity Cost Breakdown, FY20

The chart below represents the breakdown of commodity costs at DAS in FY20.



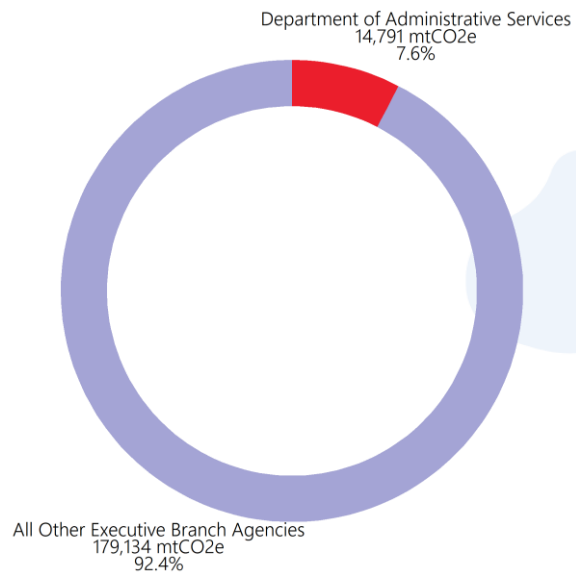
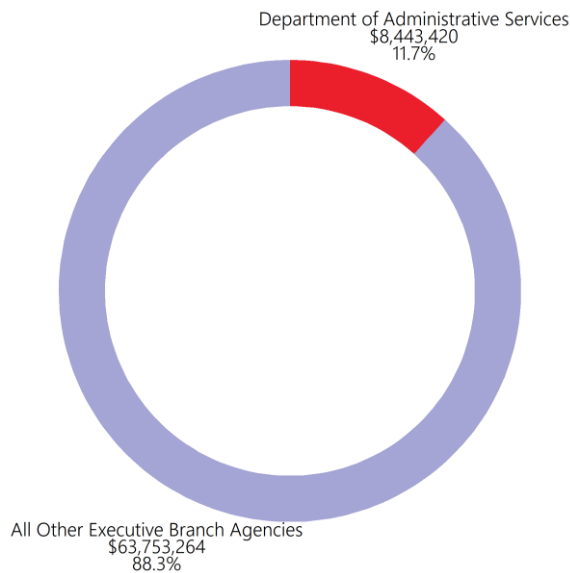
GHG Emissions Breakdown, FY20

The chart below represents the breakdown of GHG emissions by commodity at DAS in FY20.



Share of Utility Costs and GHG Emissions

The two charts below display DAS's proportion of the FY20 total utility cost and the total GHG emissions of all agencies participating in EO 1.



Future Planning

GHG Reduction (energy/fleet related)

Status of FY19 Plans

- ✓ **Progress has been made.**
Progress has stalled.
Plans have been completed.
Stated plans no longer a priority.

Planned FY21 Projects

Complete GPS Telemetric Installations; continue to help plan for conversion to electric vehicles and/or hybrid vehicles.

Water Use Reduction

Status of FY19 Plans

- ✓ **Progress has been made.**
Progress has stalled.
Plans have been completed.
Stated plans no longer a priority.

Planned FY21 Projects

Continue to ensure water efficiencies in DAS-managed buildings.

Waste Reduction

Status of FY19 Plans

- ✓ **Progress has been made.**
Progress has stalled.
Plans have been completed.
Stated plans no longer a priority.

Planned FY21 Projects

Continue composting projects.

COVID-19 Impacts

Impact of COVID-19 on agency's ability to make progress on the goals of EO 1 in FY20

COVID has made it difficult to access and upload some of our agency data.

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**

Resources Needed

Barriers encountered while making EO 1 progress in FY20

✓ **Funding**

✓ **Staffing**

Technical expertise

No barriers encountered

Other

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

Funding