

Sustainability Performance Plan

Department of Emergency Services & Public Protection

Prepared by

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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

35% increase 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.

DESPP and EO 1

DESPP's mission

The Connecticut Department of Emergency Services and Public Protection is committed to protecting and improving the quality of life for all by providing a broad range of public safety services, training, regulatory guidance, and scientific services utilizing enforcement, prevention, education, and state of the art science and technology. In striving to accomplish our mission, we will embody our core values with great PRIDE:

- Professionalism through an elite and diverse team of trained men and women.
- Respect for ourselves and others through our words and actions.
- Integrity through adherence to standards and values that merit public trust.
- Dedication to our colleagues, our values, and to the service of others.
- Equality through fair and unprejudiced application of the law.

DESPP's FY20 participation overview

DESPP participated in replacement of lighting fixtures, purchase of Hybrid vehicles, and consolidation of copiers, printers, and fax machines.

DESPP staff involvement in EO 1

Robert Cody, Director of Facilities
Ben Bartlett, Manager Fleet Services
Alessandra Lyons, IT

3

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: State Police Training Academy 285 Preston Ave Meriden, CT

Project Type: Structural - GHG - Building energy efficiency

Description: Replacement of Fluorescent lighting to LED lighting, over approx. 75 fixtures.

Status: In progress in FY 2020

Benefits Summary: Replacement of lighting fixtures reduces wattage, saves in cost, longer lifetime of lighting, and emanates lower radiant heat.

2

Location: Department (Fleet) Wide

Project Type: Behavioral - GHG - Vehicle/fleet

Description: Ongoing implementation: Purchase of energy efficiency Hybrid vehicles.

Status: Completed in FY 2020

Benefits Summary: Currently, 128 or 7.79% of our 1644 vehicles are Hybrid Electric. With our 2021 models are received and deployed, the number will increase to 209 or 12%. Reduction in GNG emissions, reduction in 87 octane gasoline usage.

3

Location: DESPP-HQ 1111 Country Club Road Middletown, CT

Project Type: Behavioral - GHG - Building energy efficiency

Description: Consolidation of copiers, printers, and fax machines — to single 4 in 1 unit.

Status: Completed in FY 2020

Benefits Summary: Consolidation of copiers and printers into high-volume devices reduces utility costs and paper waste.

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

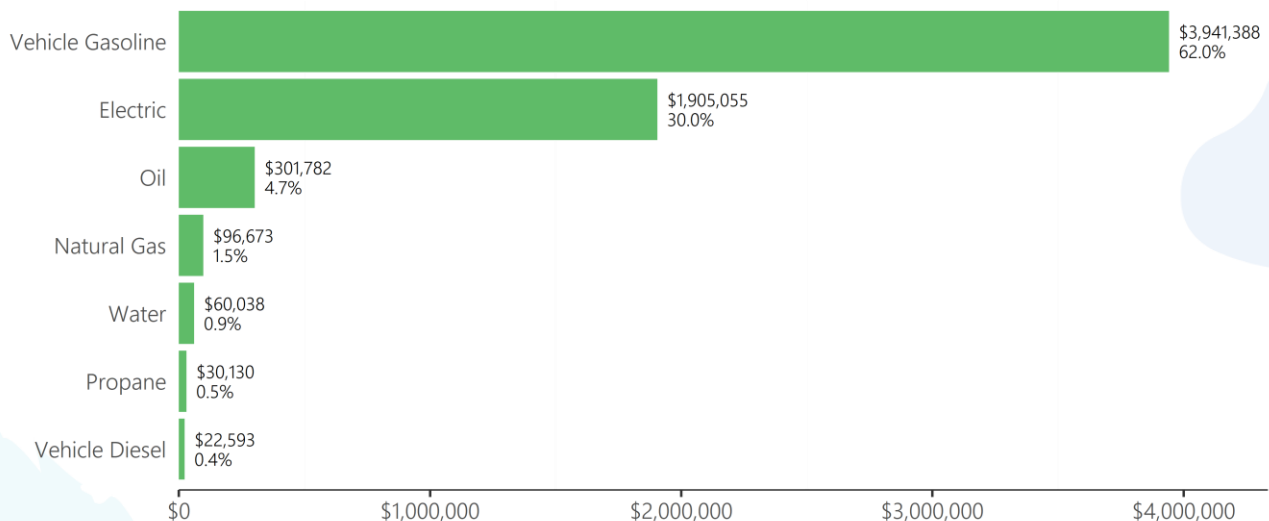
Commodity	Unit	Use			Cost		
		FY19	FY20	Change	FY19	FY20	Change
Electric & Natural Gas	MMBtu	57,757	54,756	-5.2%	\$2,142,961	\$2,001,728	-6.6%
Other Building Energy	MMBtu	151,715	27,401	-81.9%	\$411,348	\$331,912	-19.3%
Vehicle Gasoline	Gal	1,827,693	1,663,033	-9.0%	\$4,697,170	\$3,941,388	-16.1%
Vehicle Diesel	Gal	7,943	7,633	-3.9%	\$25,259	\$22,593	-10.6%
Total GHG Emissions	mtCO2e	31,117	20,396	-34.5%	-	-	-
Water	Kgal	6,465	8,741	+35.2%	\$44,362	\$60,038	+35.3%
Total	-	-	-	-	\$7,321,101	\$6,357,659	-13.2%

*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.

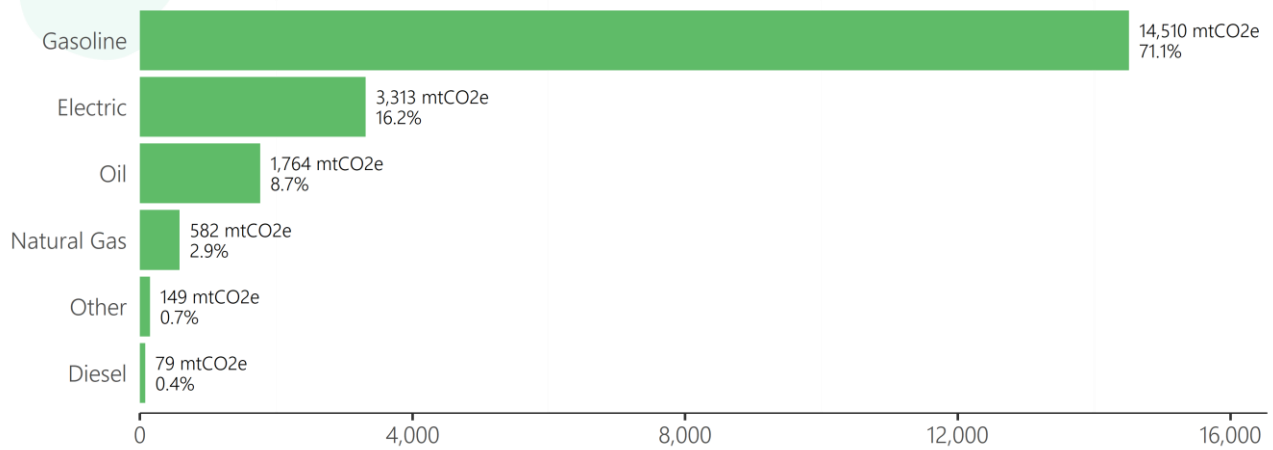
Commodity Cost Breakdown, FY20

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



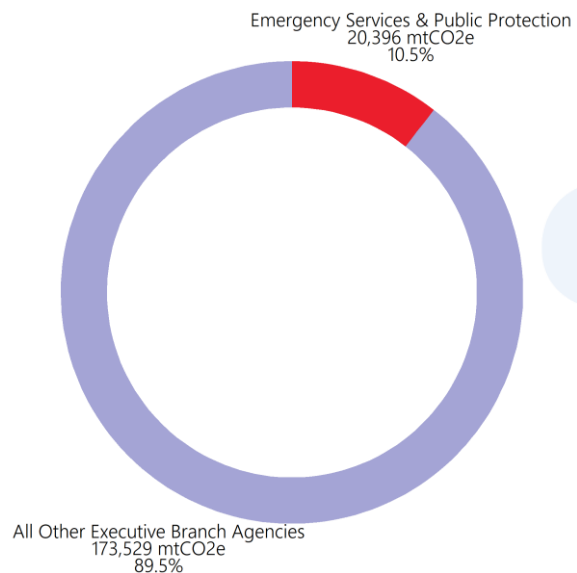
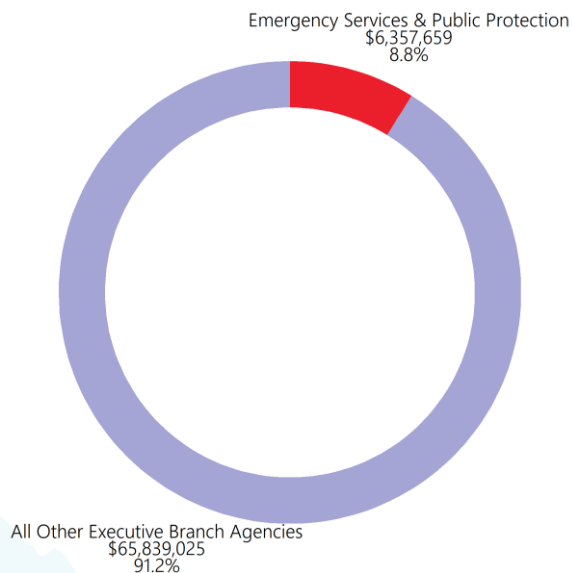
GHG Emissions Breakdown, FY20

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



Share of Utility Costs and GHG Emissions

The two charts below display DESPP'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

- Continue the purchase of energy-efficient Hybrid vehicles.
- Communicating with Connecticut Green Bank to develop the contracting and financing tools needed to install solar across DESPP facilities.

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

- Replacement/Repair of main water valve DESPP HQ for water leak repair.
- Continue steam and condensate leaks and repairs at facilities that use steam heat.
- Replace outdated bathroom fixtures with water-efficient type fixtures.

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 policy dissemination through PowerDMS saving costs by storing and managing paper policies, procedures, and other documents online.
- Transition into unit and troop level electronic-based "read & sign" information portals.
- Continue online inservice classes to reduce the use of DESPP facilities.

COVID-19 Impact

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

Due to closings, CDC guidelines, and COVID-19 protocols the agency has accrued costs associated with backlogs, employee sickness, and reallocation of available funding.

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

Additional details on positive sustainability outcomes and how they will be continued after the pandemic

Virtual meetings and continual telework options have reduced the energy footprint in our buildings.

Resources Needed

Barriers encountered while making EO 1 progress in FY20

✓ **Funding**

✓ **Staffing**

Technical expertise

No barriers encountered

Other

Additional detail on barriers encountered in FY20

DESPP suffered a negative financial impact to help with COVID protocols, increased sick/COVID leave, and the overall number of personnel has been reduced, due to retirements.

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

Future sustainability projects would be best progressed by increasing funding for infrastructure repairs, new constructions, and innovative cost-saving projects. DESPP has commenced conversations working with the Connecticut Green Bank to develop the contracting and financing tools needed to install solar across DESPP facilities. A comprehensive Facilities Master Plan was conducted allowing us to prioritize projects and maximize sustainability goals.