

Sustainability Performance Plan

FY 2021

CT State Library

Prepared by Doralis Hernaiz
Senior Sustainability Officer

Approved by Deborah Schander
State Librarian

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



greenergovCT
A Lead by Example Initiative

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

CSL's Mission

The mission of the Connecticut State Library is to preserve and make accessible Connecticut's history and heritage and to advance the development of library services statewide. The Connecticut State Library is an Executive Branch agency of the State of Connecticut. The State Library provides a variety of library, information, archival, public records, museum, and administrative services for citizens of Connecticut, as well as for the employees and officials of all three branches of State government. The State Library also serves students, researchers, public libraries and town governments throughout the state. In addition, the State Library directs a program of statewide library development and administers the Library Services and Technology Act state grant.

FY21 Participation Overview

The previous SSO served on the Renewable Team Committee.

Participating Agency Staff

Frank Calvi



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: Paving entire Lot of the LBPH building

Where: LBPH 198 West Street in Rocky Hill

Project type: Structural - Combination

Status: In progress in FY 2021 (expected completion Summer 2022)

Benefits: Increase property value. safer for staff and patrons

Project 2

What: Working towards reducing paper and becoming a more paperless office setting.

Where: All Location

Project type: Behavioral - Combination

Status: In progress in FY 2021

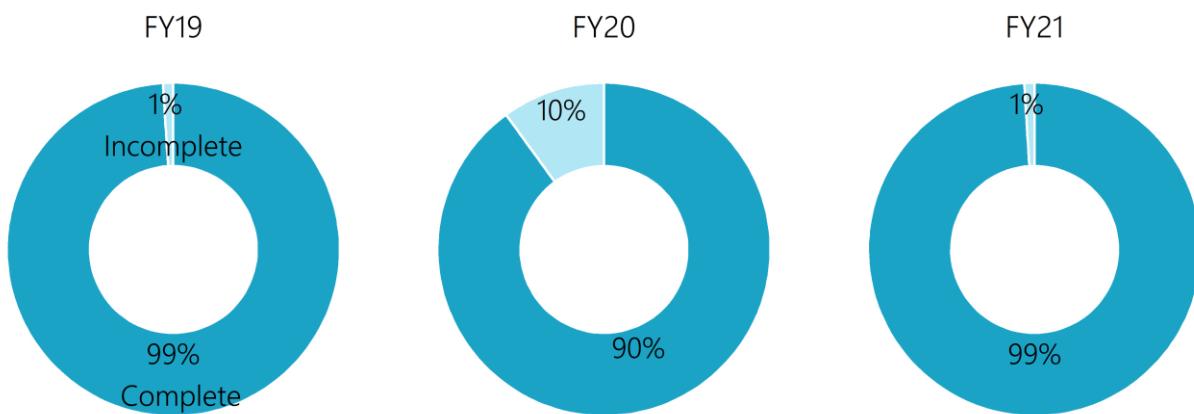
Benefits: Less paper purchase, less waste, more green

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.

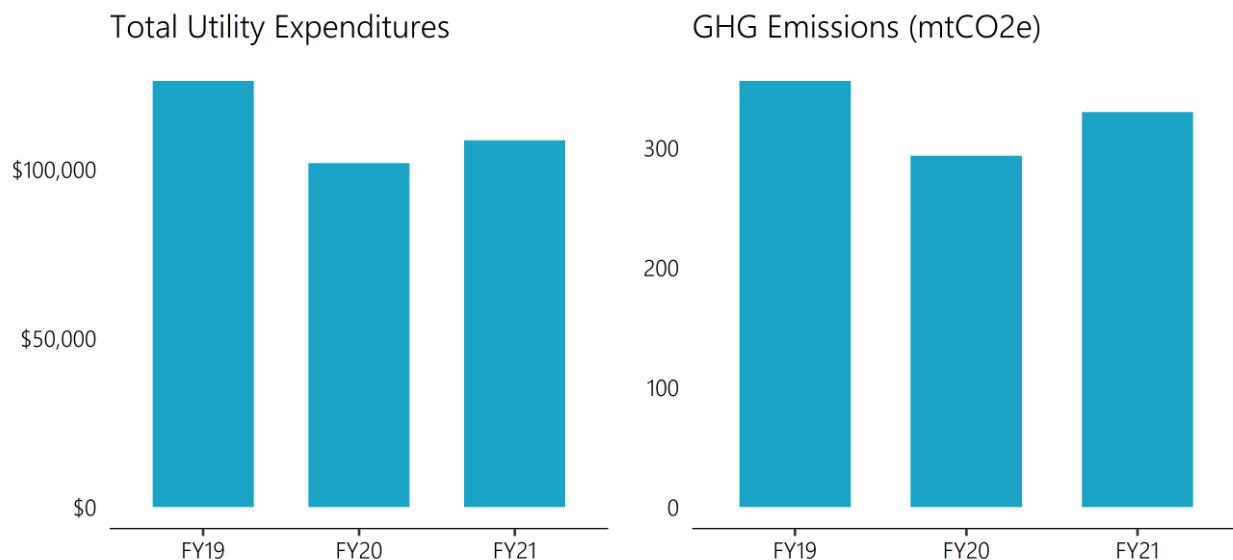
Data Completeness

The charts below display the estimated percent of utility data for CSL 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 CSL 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.

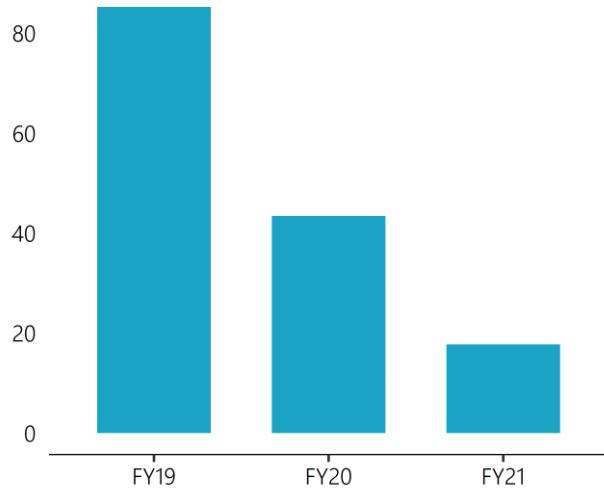


Performance Data cont.

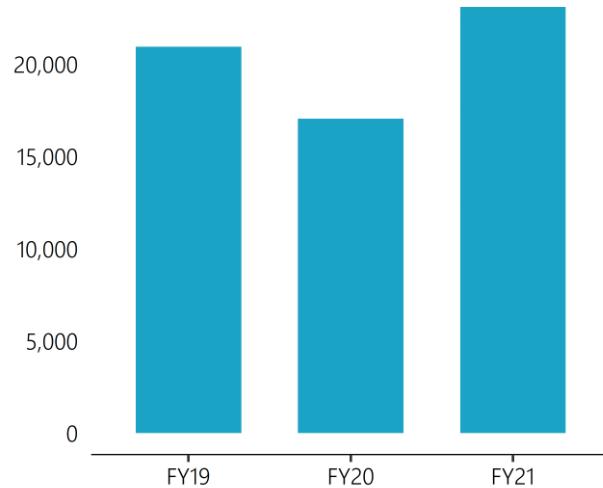
Data Trends, FY19-FY21 - Continued

The charts below summarize the water and gas/diesel use for CSL 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.

Water & Sewer Use (Kgal)



Gas & Diesel Use (Gal)



Detailed Utility Use and Cost Data

The table below summarizes the utility use and cost data for CSL 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			FY19-21 Change	Cost			FY19-21 Change
		FY19	FY20	FY21		FY19	FY20	FY21	
Electric	kWh	250,448	226,913	135,332	-46.0%	\$43,313	\$38,856	\$27,665	-36.1%
Natural Gas	CCF	19,957	15,830	17,143	-14.1%	\$25,124	\$20,541	\$21,914	-12.8%
Vehicle Gasoline	Gal	20,950	16,332	23,110	+10.3%	\$56,357	\$39,524	\$58,467	+3.7%
Vehicle Diesel	Gal	-	717	-	-	-	\$2,123	-	-
Total GHG Emissions	mtCO2e	356	293	330	-7.3%	-	-	-	-
Water	Kgal	43	22	9	-79.2%	\$1,090	\$582	\$424	-61.1%
Sewer	Kgal	43	22	9	-79.2%	\$270	\$202	\$118	-56.3%
Total	-	-	-	-	-	\$126,154	\$101,828	\$108,588	-13.9%

*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.

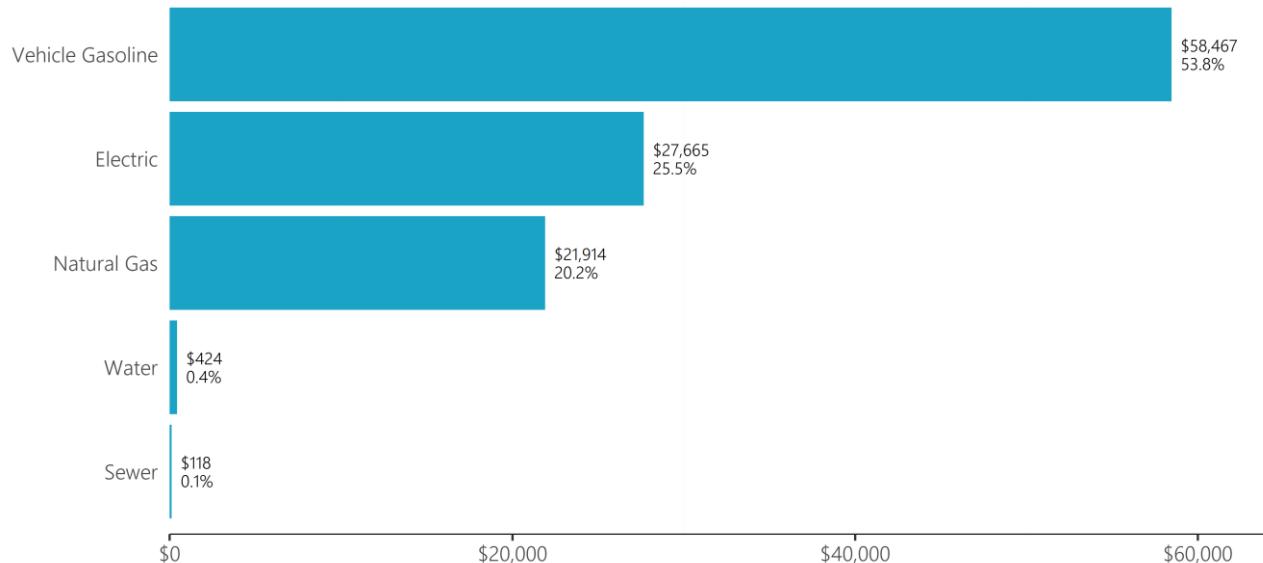
Performance Data cont.

FY21 Data Snapshot

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

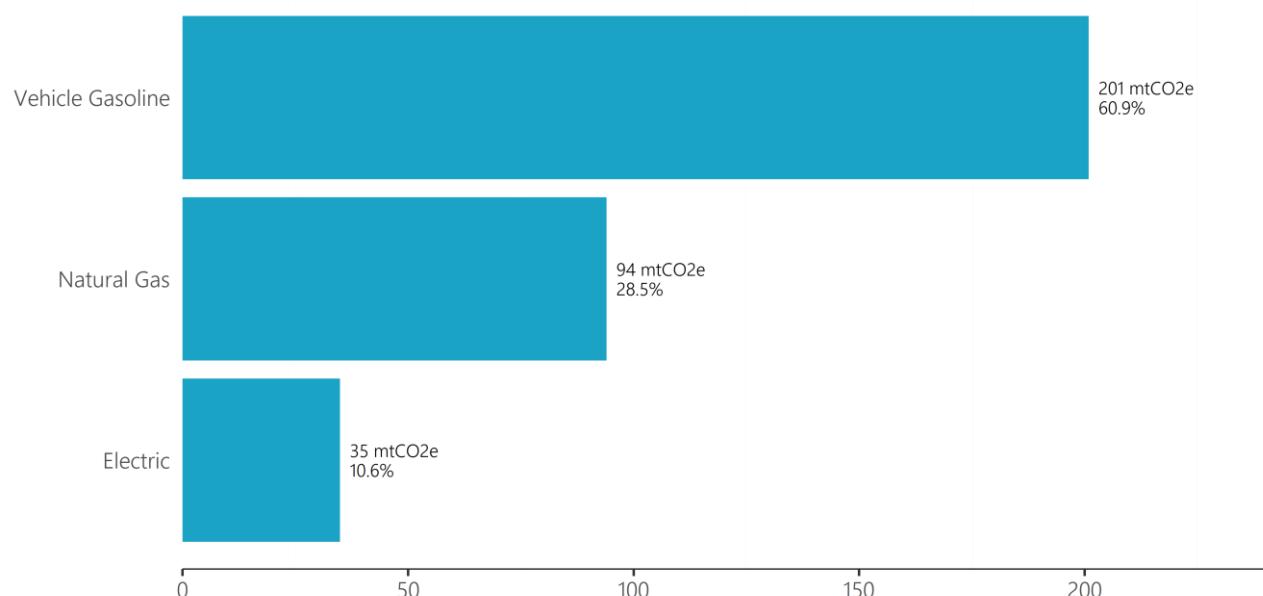
Commodity Cost Breakdown, FY21

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



GHG Emissions Breakdown, FY21

The chart below represents the breakdown of GHG emissions by commodity at CSL 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 CSL 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

Additional details on the return to the office:

Working towards a goal of becoming more paperless in our office settings.

COVID-19 Impact

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

Some planned projects have been stalled.

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	

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

Continue meeting through TEAMS when at all possible.

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

Paving the LBPH Lot

Water Use Reduction

Install updated plumbing and supplies for water reduction

Waste Reduction

Less use of paper and moving towards a more paperless route

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

Funding