

STEERING COMMITTEE ON STATE SUSTAINABILITY

FEBRUARY 19, 2021



greenenergovCT

A Lead by Example Initiative

AGENDA



greenergovCT

A Lead by Example Initiative

Welcome Back (5 mins)

Data Collection (10 mins)

Sustainability Performance Plans (10 mins)

Energy Efficiency Update (10 mins)

Water Team Update (10 mins)

What's Next (5 mins)

**WELCOME
BACK!**

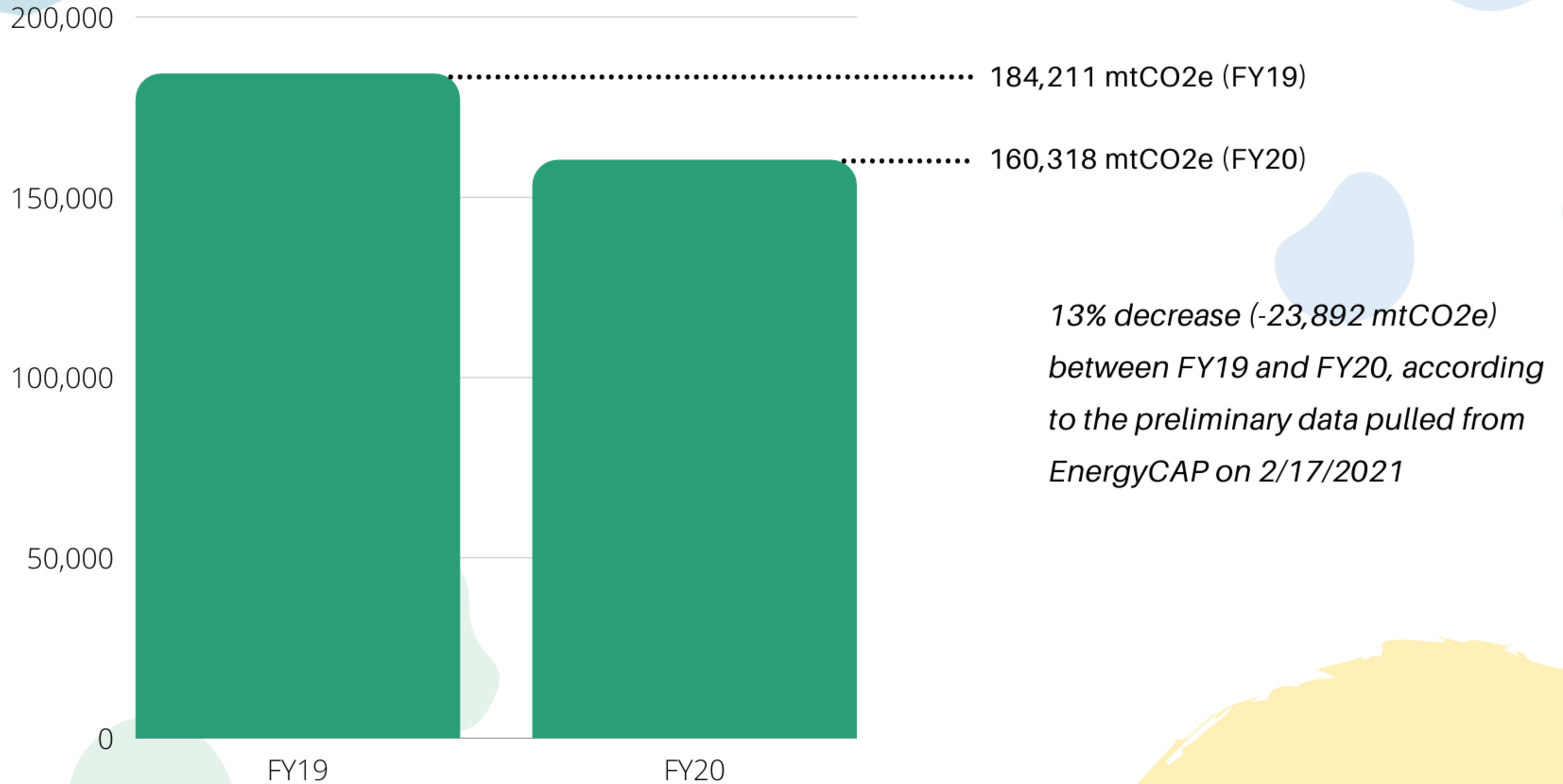
greenergovCT
A Lead by Example Initiative

QUICK POLLS

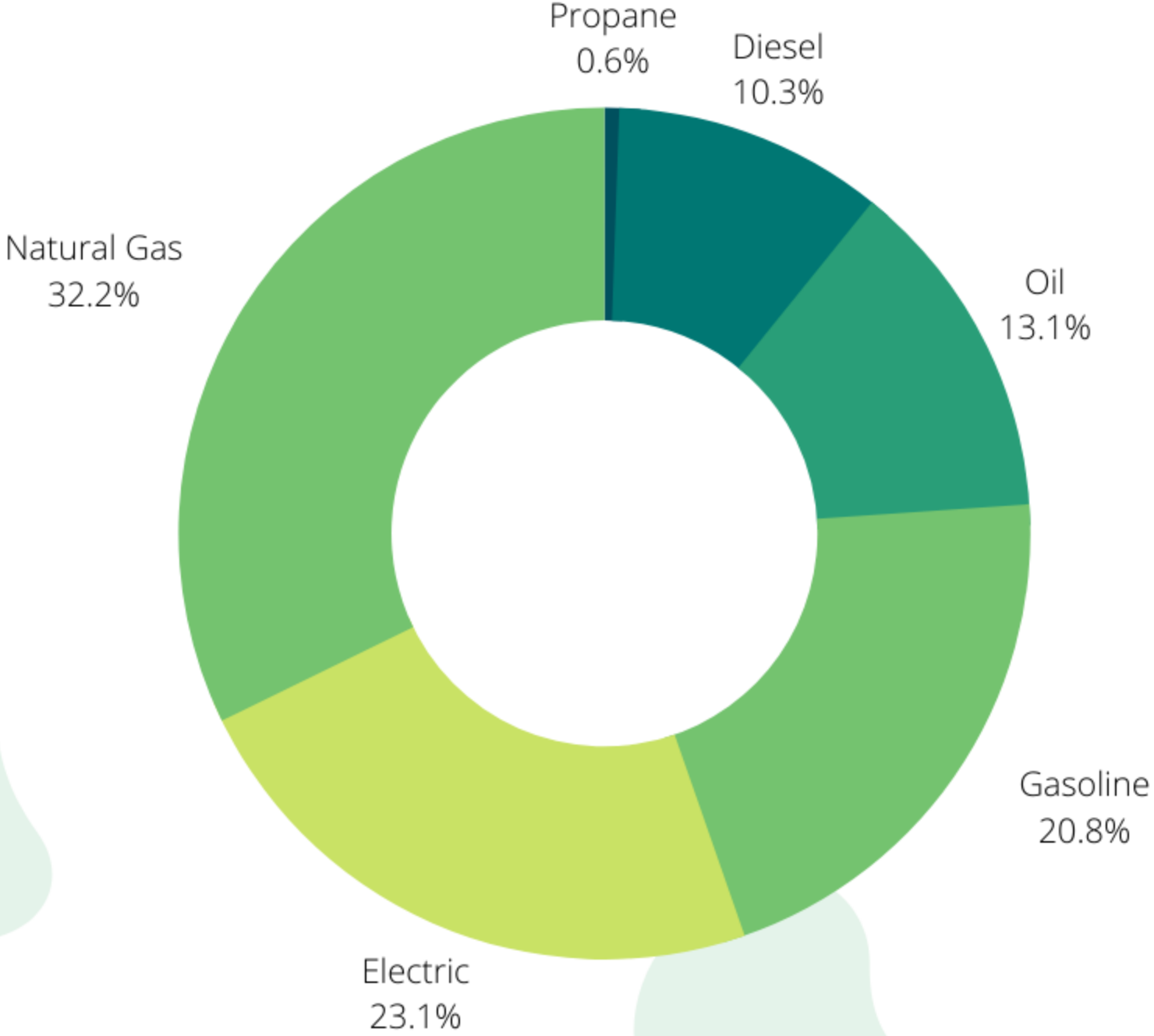
DATA COLLECTION

EXECUTIVE BRANCH PERFORMANCE

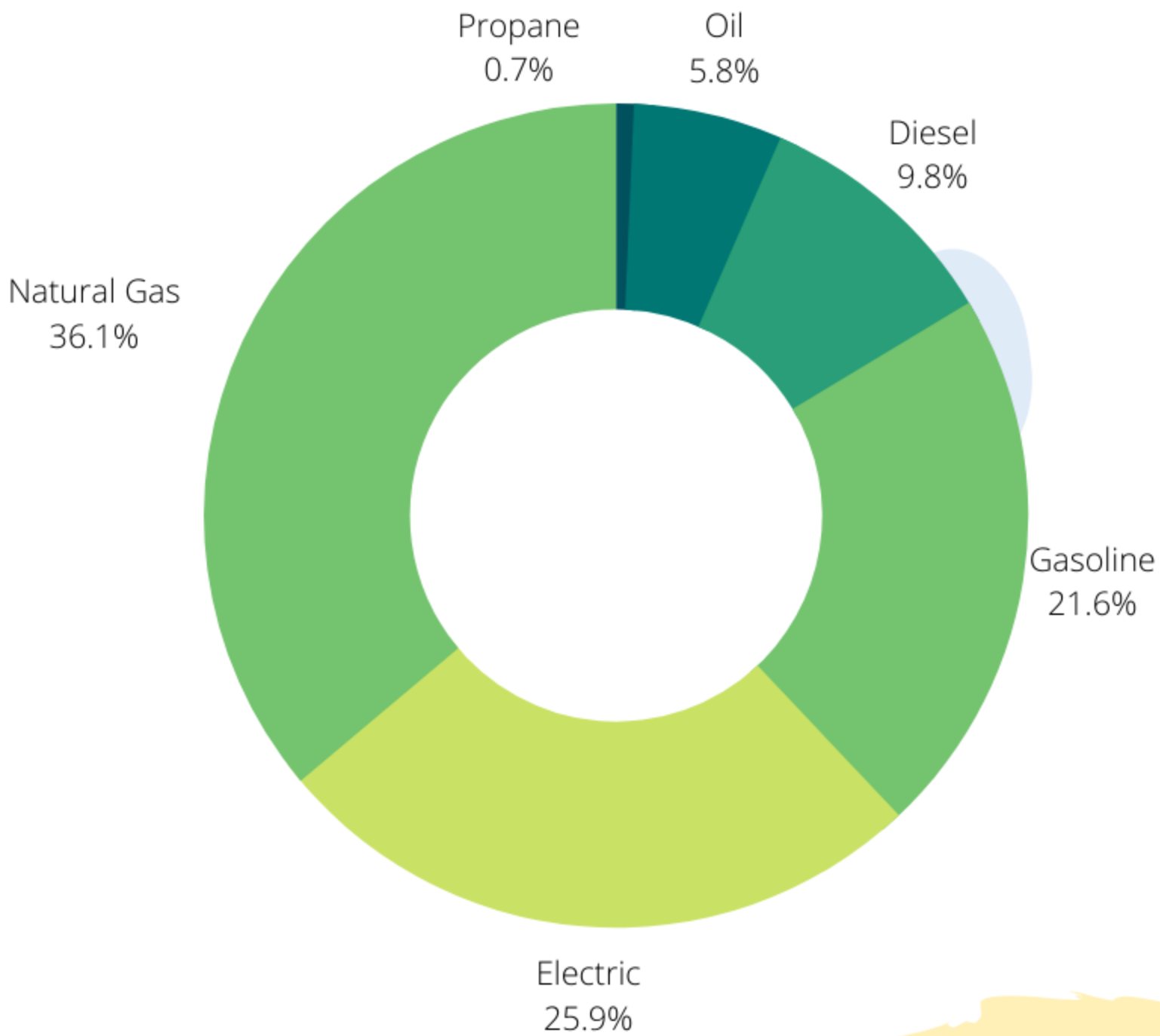
GHG EMISSIONS IN EXECUTIVE BRANCH AGENCIES



GHG EMISSIONS BY COMMODITY IN EXECUTIVE BRANCH AGENCIES



FY19

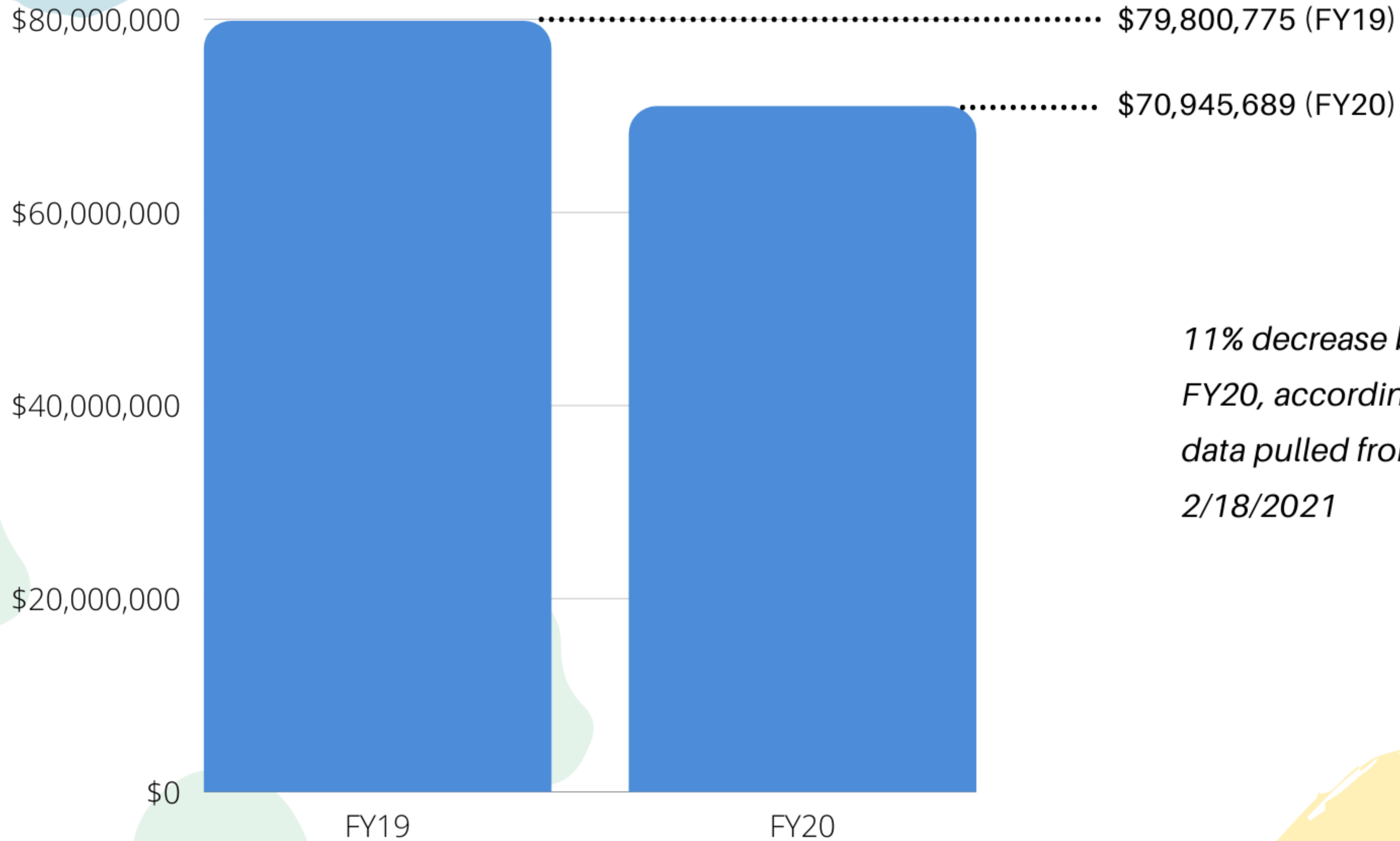


FY20

EXECUTIVE BRANCH GHG EMISSIONS (IN MTCO2E) BY COMMODITY

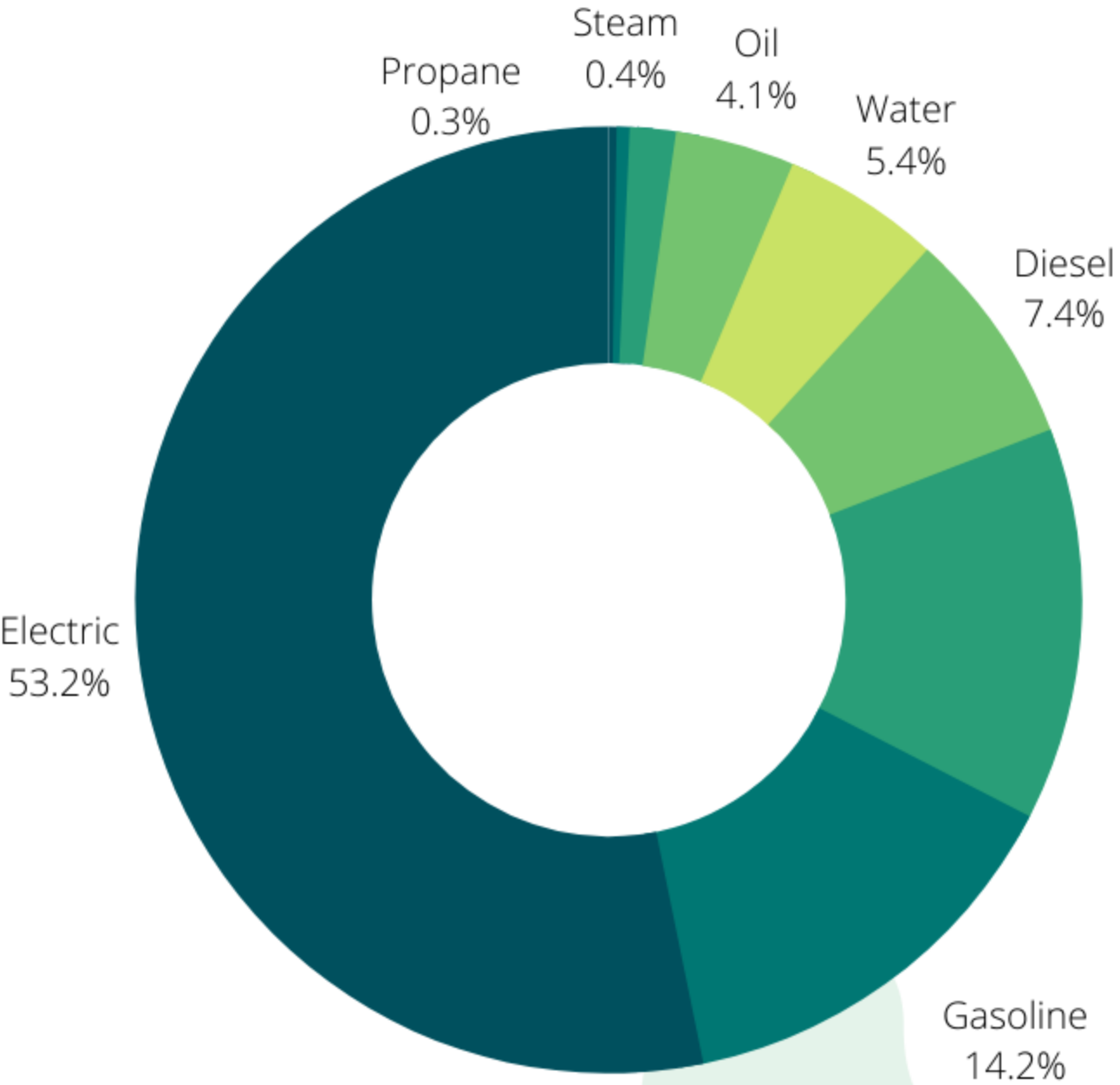
Commodity	FY19	FY20	Change
Natural Gas	59,400.7	57,917.0	-2%
Electric	42,543.5	41,538.3	-2%
Gasoline	38,241.8	34,632.4	-9%
Diesel	18,888.2	15,758.9	-17%
Oil	24,114.0	9,363.0	-61%
Propane	1,020.8	1,106.5	8%
Chilled Water	1.7	2.3	33%
Total	184,210.6	160,318.5	-13%

UTILITY COSTS IN EXECUTIVE BRANCH AGENCIES

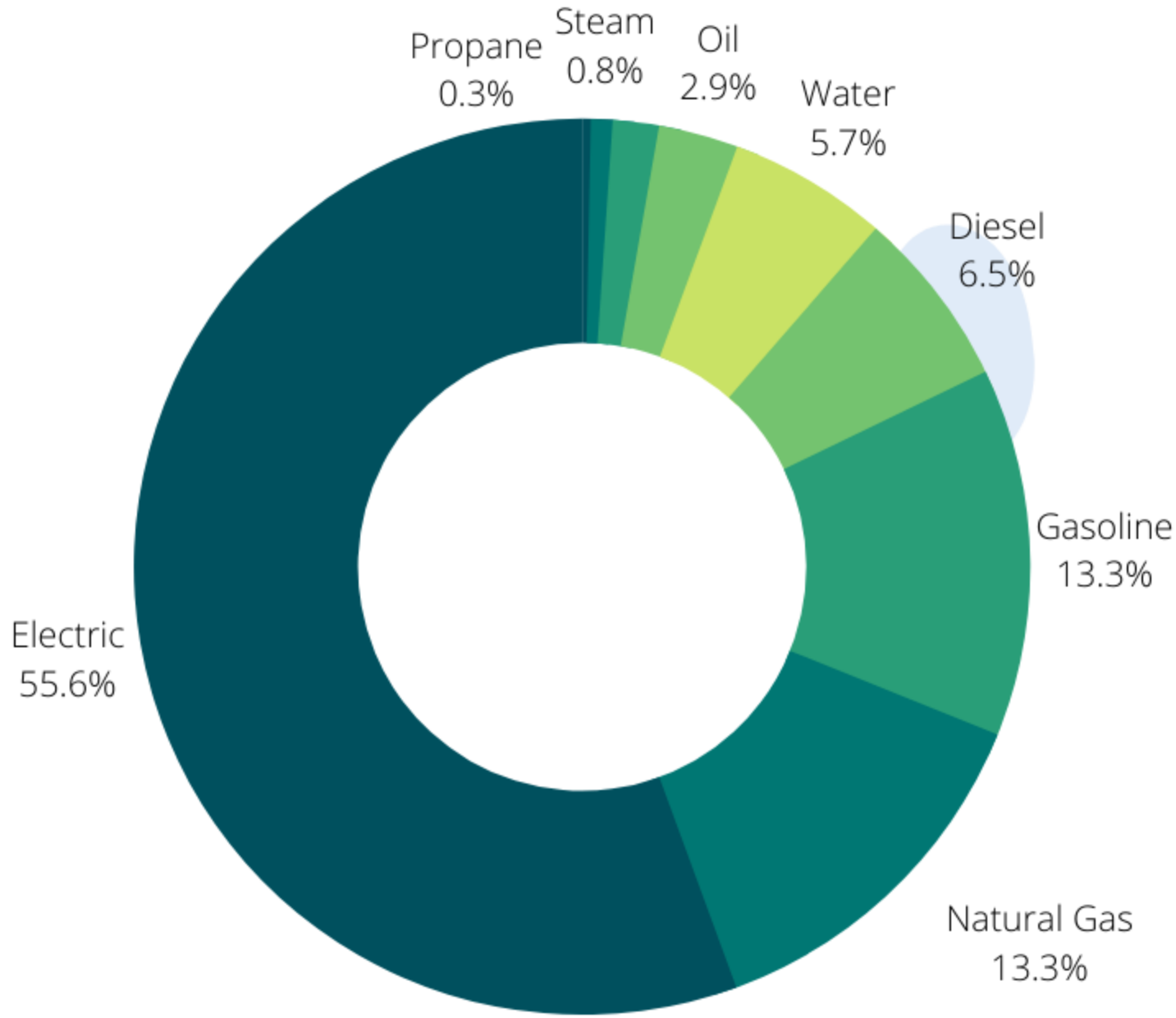


11% decrease between FY19 and FY20, according to the preliminary data pulled from EnergyCAP on 2/18/2021

UTILITY COSTS BY COMMODITY IN EXECUTIVE BRANCH AGENCIES



FY19



FY20

EXECUTIVE BRANCH UTILITY COSTS BY COMMODITY

Commodity	FY19	FY20	Change
Electric	\$42,459,055	\$39,440,836	-7%
Natural Gas	\$10,715,397	\$9,432,650	-12%
Gasoline	\$11,353,846	\$9,426,730	-17%
Diesel	\$5,902,158	\$4,578,751	-22%
Water	\$4,299,313	\$4,072,542	-5%
Oil	\$3,254,369	\$2,042,379	-37%
Chilled Water	\$1,253,824	\$1,180,244	-6%
Steam	\$351,713	\$553,068	57%
Propane	\$211,100	\$218,489	4%
Total	\$79,800,775	\$70,945,689	-11%

WASTE UPDATE

- Starting in FY22, **all Executive branch agencies** will be required to upload waste and recycling invoices
- Determine annual waste costs for trash disposal and diversion potential

ALL WASTE P.O. BOX 2472
Hartford, CT 06146
(860) 724-4575 1-800-443-3867
FAX (860) 724 3316
www.allwaste.com

Invoice # 1961498 Invoice Date 1/02/20

Bill to: _____ Service Address: _____

STATE OF CONNECTICUT/DAS
C/O: KONOVER COMMERCIAL / 1-130
450 COLUMBUS BLVD STE 1
HARTFORD CT 06103-1837

STATE OF CONNECTICUT/DAS
450 COLUMBUS BLVD
HARTFORD CT 06103

Cust #: 1 - 196387 2

Please detach here and return with your payment. Thank You.

				Amount Enclosed
Date	Description	Qty.	Rate	Total
1/02/20	MONTHLY SERVICES			550.00
	WORK ORDER#: 1951407			
12/09/19	28YD SPLIT PCK HAUL/RET			175.00
12/09/19	DUMP FEE-TRASH	1.75	91.240	159.67
12/09/19	DUMP FEE-SINGLE STREAM	.92	40.000	36.80
	WORK ORDER#: 1955002			
12/17/19	28YD SPLIT PCK HAUL/RET			175.00
12/17/19	DUMP FEE-TRASH	1.61	91.240	146.90
12/17/19	DUMP FEE-SINGLE STREAM	1.25	40.000	50.00
	WORK ORDER#: 1958149			
12/26/19	28YD SPLIT PCK HAUL/RET			175.00
12/26/19	DUMP FEE-TRASH	2.04	91.240	186.13
12/26/19	DUMP FEE-SINGLE STREAM	1.02	40.000	40.80

BUILDING INVENTORY LIST

greenergovCT
A Lead by Example Initiative

What does it look like this year?

Reference Number	Structure Name	Address	Town	Condition	Gross Square Feet	Net Usable Square Feet	Occupancy Status	Percent Occupied	Structure Classification	Construction Type	Year of Construction	Year of Last Major Renovation	2 Year Use Plans	5 Year Use Plans
													Plan for Energy Efficiency Project	
													Interest in Energy Audit	

AI	AJ	AK
Changes to Building Use dropdown answers	Changes to Utility Accounts or Billing Use dropdown answers. Provide update info in the Notes column at right	Notes and Effective Dates on Accounts/Billing or Building Changes
Structure or Facility Name Usable or Gross Square Ft Occupancy or # of Employees or Clients 2- or 5- Year Use Plans Primary Use Ownership or Use and Control More Than One of the Above	Account Number Meter Number Vendor Who pays the Utility bills More Than One of the Above	

DATE DUE:
April 1, 2021

AGENCY SPOTLIGHT

DATA COLLECTION FEEDBACK

SUSTAINABILITY PERFORMANCE PLANS

SPP REFRESHER

- **What is a Sustainability Performance Plan?**
 - Annual plans drafted by SSOs to detail agency progress and necessary goals, actions, and responsible parties to achieve the targets set in EO 1
- **How is SPP reporting process being handled this year?**
 - This year agencies are providing their annual update through an online survey via SurveyMonkey
 - The Reporting Team will compile the results and send back to each agency for review and final approval

SPP TIMELINE

- **February 8** – SPP survey made available to SSOs
- **March 5** – **Deadline for SSOs to complete SPP survey**
- **March 15** - Reporting Workgroup will compile the responses into individual agency SPPs and send them back to each agency for review, approval and e-signature
- **March 22** – Deadline for agency commissioners to approve final SPPs
- **March 31** – Final SPPs published online and dashboard updated



SPP MATERIALS

SSOs should have received:

- A **link to the SPP survey** via SurveyMonkey (<https://www.surveymonkey.com/r/GRPVLZG>)
- A Word document with a **copy of the questions in the survey** so SSOs can preview and brainstorm before completing the survey online if desired
- A link to the **preliminary agency data pages** that summarize FY19 and FY20 utility use and cost data from EnergyCAP, pulled on 2/1/2021

EO 1 REPORTING DURING COVID-19

- Consider if there were activities or sustainability projects in FY20 that occurred before the pandemic (July 2019 - February 2020). These should be included in the FY20 SPP.
- Even if progress was limited by COVID-19, report on what you can and note where your agency's capacity was limited due to the pandemic or other barriers.
- The SPP survey includes questions about the impact of COVID-19 on your agency; this is a good place to describe how the pandemic impacted your agency's ability to make progress on the goals of EO 1 in FY20.

Pauline Zaldonis

SPP NEXT STEPS

- Submit your SPP survey via SurveyMonkey by **Friday, March 5**.
- If you have questions or would like to discuss your SPP, contact Pauline Zaldonis via email at pauline.zaldonis@ct.gov.
- Upcoming Quarterly survey so it's easier to compile data throughout next time around

ENERGY EFFICIENCY UPDATE

UPDATE ON ENERGY EFFICIENCY PROJECTS AND FACILITIES

- The Technical Advisory Committee is evaluating energy audit results using a comprehensive scoring system based on overall GHG emission reduction, emission reduction per \$, payback time, and water savings.
- New SBEA process - how agencies can participate in the Utility program

Smaller buildings can and should be audited through the utility-run SBEA program!

Contact Ryan.Ensling@ct.gov or leadbyexample@ct.gov for details.

WATER AUDIT UPDATE

SUMMARY OF THE WATER AUDIT PILOT

- DEEP and Dept of Ag volunteered to test the water audit.
- Great feedback from the participants as well as a draft report by DoAg that identifies areas for water conservation/sustainability projects
- Pilot water audit feedback will be used to refine the water audit.

State of CT Agency/Facility Water Audit Form
E01 Water Sustainability

Agency and Facility Information

Agency: _____
Facility: _____
Facility/Building Address: _____
Facility Contact Name: _____ Position: _____
Type of Building: Office Warehouse Other (specify): _____
Number of Permanent Occupants/Employees: _____ Male: _____ Female: _____
Average number of days occupied per year: _____
Is the property owned by the State? Yes No
If No, is the owner interested in water conservation? Yes No
Has a water audit been completed for this facility in the past? Yes No When? _____
If yes, have you reviewed the previous audit(s)? Yes No
Were changes made to the facility based on a previous audit? Yes No
What changes were made to the facility? _____

Utility/Consumption Data

Water Meter Reading (Utility Meters):

Meter Name/Number	Size	Area Served
Meter 1: _____	_____	_____
Meter 2: _____	_____	_____
Meter 3: _____	_____	_____

Monthly Consumption Meter 1:

Jan	Feb	March	April
_____	_____	_____	_____
May	June	July	Aug
_____	_____	_____	_____
Sept	Oct	Nov	Dec
_____	_____	_____	_____

Average Monthly Water Consumption for Meter 1: _____ Gallons
Annual water consumption for Meter 1: _____ Gallons

Monthly Consumption Meter 2:

Jan	Feb	March	April
_____	_____	_____	_____
May	June	July	Aug
_____	_____	_____	_____
Sept	Oct	Nov	Dec
_____	_____	_____	_____

Average Monthly Water Consumption for Meter 2: _____ Gallons
Annual water consumption for Meter 2: _____ Gallons

Facility Water Audit Form Instructions

Executive Order 1, all agencies will need to implement water conservation measures and water conservation programs. The Governor's Office of Energy and Environmental Management (OEM) is providing this form to help agencies determine their current water use and evaluate their baseline inventory or alternatively, such goals developed to aid in evaluating each agency's progress towards the sustainability goals. Several of these documents can be referenced for:


- Development Section, April 2010, [Efficiency Investment Act](#)
- Management Practices
- Checklist for Sustainability
- Audit Form
- Information can be found at: [www.gov.ct.gov](#)

FIX A LEAK WEEK

- March 15 - 21
- Run by EPA's WaterSense program
- Leaks can be a significant source of water waste, accounting for an average of 6% of facility water use.
- By dedicating a concentrated effort during this time period, agencies could go a long way to achieve their EO 1 10% water consumption reduction goal.

Checklist for Spotting Water Waste

Here are some of the places leaks may be hiding in your facility. Some leaks require a simple fix like tightening a loose connection, but other equipment malfunctions may require a licensed plumber or facility maintenance professional. Take a quick inventory of potential water waste in your facility:

Throughout the facility:	In the restroom:
<input type="checkbox"/> Check for pooling water, rust, or other signs of leakage under pipe connections and near floor drains. Look for signs of moisture or mold on your walls, ceilings, or floors.	<input type="checkbox"/> Automatic sensors: Check and adjust sensors regularly to avoid double flushing or continuously running water.
<input type="checkbox"/> Routinely check equipment cooling water lines for leaks and corrosion.	<input type="checkbox"/> Toilets and Urinals: Listen for running water and time the flush cycle. Regularly inspect and replace worn diaphragm or piston valves. Test tank-type toilets for worn flappers and other leaks with food coloring.
<input type="checkbox"/> Inspect shutoff valves and sensors to ensure they stop continuously running water.	<input type="checkbox"/> Faucets: Check for drips and verify that faucet aerators are still properly installed.
<input type="checkbox"/> Encourage employees to report leaks and broken/loose parts.	<input type="checkbox"/> Showersheads: Look for drips or stray sprays, signs of scale buildup or other malfunctions restricting flow.
In the mechanical spaces:	Outdoors:
<input type="checkbox"/> Equipment with single-pass cooling: Check system specifications to use the minimum water flow rate required for cooling. Regularly check solenoid valves to make sure water is only flowing when needed.	<input type="checkbox"/> Visually inspect the landscape for water pooling or puddling to prevent damage to hardscapes and overwatering plants.
<input type="checkbox"/> Boiler and steam systems: Regularly check steam traps and steam and hot water lines for leaks.	<input type="checkbox"/> Irrigation systems: Repair broken sprinkler heads and nozzles spraying in the wrong direction. Consult an irrigation auditor certified by a WaterSense labeled program to improve system efficiency.
<input type="checkbox"/> Cooling towers: Read the conductivity meter and the make-up and blowdown flow meters regularly and log readings. Check the make-up and blowdown valves to make sure they out off the flow of water cleanly.	<input type="checkbox"/> Pools and Spas: Check water levels. A loss of more than 2" per week in the water level may mean a leak.
In the kitchen:	<p>Find more information about water-efficient best practices, tools, and case studies on the WaterSense website https://www.epa.gov/watersense/commercial-buildings.</p> <p>Remember to look for the WaterSense label when purchasing plumbing products. WaterSense labeled products are independently certified to use at least 20 percent less water and perform as well or better than standard models.</p> <p>Fixing leaks at your workplace is important, but so is fixing leaks in your household. For more information on fixing leaks wherever they are, visit https://www.epa.gov/watersense/fix-leak-week.</p>
<input type="checkbox"/> All equipment: Shut down or use standby mode for all continuous flow equipment between uses. Inspect shutoff valves to ensure they are working properly.	
<input type="checkbox"/> Pre-rinse spray valves: Clean openings as needed for smooth spray. Train employees to use always-on clamps only when necessary.	epa.gov/watersense
<input type="checkbox"/> Dishwashers: Manual fill valves should close completely after the wash tank is full. Inspect and repair valves and rinse nozzles.	
<input type="checkbox"/> Steam equipment: Inspect and replace gaskets and tighten hinges on doors to retain heat or steam.	
<input type="checkbox"/> Food disposal systems: Turn off water to disposals during idle periods. Train users to manually scrape as much food waste as possible first.	

WaterSense Fix a Leak

Get on track to nip that drip and stop the nearly **1trillion gallons** of water wasted annually by **water leaks**.

Report leaks to facility manager

Contact:

Phone Number:

Email:



Check. Report. Replace.

NEXT STEPS

NEXT STEPS

SPP Deadlines

- SPP surveys due back from SSOs on March 5th
- SPPs and Annual Progress Report will be published end of March

Sustainability at home -

- [Home Energy Solutions Energy Assessment](#) or a [Virtual Pre-Assessment](#)
- [Composting Options](#)