STEERING COMMITTEE ON STATE SUSTAINABILITY

MARCH 6, 2020

GINA MCCARTHY AUDITORIUM



AGENDA



EnergyCAP Reports (15 mins)

Accounting and Reporting Guidelines (5 mins)

Update on Building Audits (10 mins)

Project Team Report-Outs (25 mins)

Fix a Leak Week/SPP Survey (5 mins)

Next Steps Before April (5 mins)

HELPFUL ENERGYCAP REPORTS

RUNNING REPORTS

LOG INTO ENERGYCAP

using your login credentials provided by your EnergyCAP liaison.

Don't have credentials? Just ask!

CLICK THE REPORTS ICON

located at the bottom of the menu.

FIND THE REPORT YOU WANT

There many options but we have recommendations to get started with.





Create



Dashboards



Buildings & Meters



Accounts





Groups & Benchmarks



Chargebacks



A人 Interval Data



Vendors & Rates



Reports

DATABASE/INVENTORY MANAGEMENT

Helpful Reports

BL-08A

Visual Missing Bills Report

Visual Missing Bills Report BL - 08A

Billing Periods w/out a Bill Record	201301	201302	201303	201304	201305	201306	201307	201308	201309	201310	201311	201312	201401	201402
0	2	2	2	2	2	2	2	2	2	2	2	1	1	1
11	0	0	0	0	0	0	0	0	0	0	0	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	0	0	0	0	0	0	0	0	0	0	1	0	0	0
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	2	1	1	1	1
0	1	1	1	1	1	1	1	1	1	2	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	3	3	3	3	3	3	3	3	3	3	3	2	1	1
11	0	0	0	0	0	0	0	0	0	0	0	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REPORT-03

Setup Report: Accounts, Vendors, Meters, Buildings, etc.

4	A	1	K	0	Z	AA
1	Account Name	Cost Center Name	Vendor Name	Meter Name	Commodity	Building Name
2	10 FRANKLIN SQ - SWR_WTR	DAS Purchased Utilities	New Britain Water	10 FRANKLIN SQ - SWR	Sewer	10 Franklin Sq
3	10 FRANKLIN SQ - SWR_WTR	DAS Purchased Utilities	New Britain Water	10 FRANKLIN SQ - WTR	Water	10 Franklin Sq
	0 RUSSELL RD - ELE	DAS Purchased Utilities	Eversource (CL&P)	0 RUSSELL RD - ELE	Electric	Maintain Boiler Building
5	525 RUSSELL RD - ELE	DAS Purchased Utilities	Eversource (CL&P)	525 RUSSELL RD - ELE	Electric	Main Building (Hosp 1)
6	300 RUSSELL RD COT 17 - ELE	DAS Purchased Utilities	Eversource (CL&P)	300 RUSSELL RD COT 17 - ELE	Electric	Cottage #17
7	302 RUSSELL RD COT 16 - ELE	DAS Purchased Utilities	Eversource (CL&P)	302 RUSSELL RD COT 16 - ELE	Electric	Cottage #16
8	240 ORAL SCHOOL RD - WTR	DAS Purchased Utilities	Aquarion Water	240 ORAL SCHOOL RD - WTR	Water	Mystic Education Center
9	10 FRANKLIN SQ - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	10 FRANKLIN SQ - NG	Natural Gas	10 Franklin Sq
10	110 BARTHOLOMEW AVE - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	110 BARTHOLOMEW AVE - NG	Natural Gas	110 Bartholomew Ave
11	505 HUDSON ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	505 HUDSON ST - NG	Natural Gas	505 Hudson St
12	286 SHELDON ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	286 SHELDON ST - NG	Natural Gas	286 Sheldon St
13	250 RUSSELL RD - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	250 RUSSELL RD - NG	Natural Gas	Maintain Boiler Building
14	309 BUCKINGHAM ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	309 BUCKINGHAM ST - NG	Natural Gas	Grounds Division
15	165 CAPITOL AVE - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	165 CAPITOL AVE - NG	Natural Gas	State Office Building
16	60 STATE ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	60 STATE ST - NG	Natural Gas	State Surplus Car Pool
17	165 CAPITOL AVE - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	165 CAPITOL AVE - NG	Natural Gas	State Office Building
18	61 WOODLAND ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	61 WOODLAND ST - NG	Natural Gas	61 Woodland Street
19	60 WESTON ST - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	60 WESTON ST - NG	Natural Gas	Office of the Public Advocate
20	990 PROSPECT AVE - NG	DAS Purchased Utilities	Connecticut Natural Gas Corporation (CNG)	990 PROSPECT AVE - NG	Natural Gas	Governor's Residence

USE/COST ANALYSIS

Reports

REPORT-22

Building Manager Report

REPORT-06

Year-over-Year Comparison

		Cost, Jan - Dec						
Reporting Node Name	Reporting Node Code	Jan 2017 - Dec 2017	Jan 2018 - Dec 2018	Jan 2019 - Dec 2019	Change o	ver 2018		
ADS_Reporting	ADS_REPORTINGNODE	\$52,124	\$65,687	\$66,673	\$986	1.5 %	_	
AES_Reporting	AES_REPORTINGNODE	\$138,155	\$32,345	\$578,139	\$545,794	1,687.4 %	_	
CAA_Reporting	CAA_REPORTINGNODE	\$1,882	\$5,044	\$6,397	\$1,353	26.8 %	_	
CHFA Reporting	CHFA_REPORTINGNODE	\$129,111	\$176,342	\$190,511	\$14,169	8.0 %	_	
CLC_Reporting	CLC_REPORTINGNODE	\$172,339	\$197,112	\$199,965	\$2,854	1.4 %	_	
CRDA_Reporting	CRDA_REPORTINGNODE	\$733,598	\$1,104,916	\$1,066,611	-\$38,305	-3.5 %	•	
CSCU_Reporting	CSCU_REPORTINGNODE	\$8,600,290	\$8,984,411	\$12,675,395	\$3,690,984	41.1 %	_	
CSL_Reporting	CSL_REPORTINGNODE	\$39,562	\$52,987	\$66,152	\$13,166	24.8 %	_	
DAS_Reporting	DAS_REPORTINGNODE	\$8,354,332	\$9,169,651	\$7,471,324	-\$1,698,327	-18.5 %	\blacksquare	
DCF_Reporting	DCF_REPORTINGNODE	\$1,286,784	\$2,790,888	\$2,627,141	-\$163,747	-5.9 %	\blacksquare	
DCJ_Reporting	DCJ_REPORTINGNODE	\$145,306	\$206,130	\$191,151	-\$14,979	-7.3 %	\blacksquare	
DCP_Reporting	DCP_REPORTINGNODE	\$258	\$163	\$0	-\$163	-100.0 %	\blacksquare	
DDS_Reporting	DDS_REPORTINGNODE	\$677,180	\$852,432	\$1,517,594	\$665,163	78.0 %	_	
DEEP_Reporting	DEEP_REPORTINGNODE	\$4,128,741	\$3,827,791	\$2,100,804	-\$1,726,988	-45.1 %	•	
DMV_Reporting	DMV_REPORTINGNODE	\$642,844	\$731,435	\$691,601	-\$39,834	-5.4 %	\blacksquare	
DOA_Reporting	DOA_REPORTINGNODE	\$43,201	\$88,930	\$144,228	\$55,298	62.2 %	_	
DOB_Reporting	DOB_REPORTINGNODE	\$241	\$78	\$0	-\$78	-100.0 %	\blacksquare	
DOC_Reporting	DOC_REPORTINGNODE	\$13,339,342	\$20,354,987	\$20,318,714	-\$36,274	-0.2 %	\blacksquare	
DOH_Reporting	DOH_REPORTINGNODE	\$0	\$0	\$0	\$0			
DOI_Reporting	DOI_REPORTINGNODE	\$65,760	\$551,752	\$17,452	-\$534,299	-96.8 %	•	
DOL_Reporting	DOL_REPORTINGNODE	\$526,276	\$577,238	\$588,579	\$11,341	2.0 %	_	
DOT_Reporting	DOT_REPORTINGNODE	\$7,350,963	\$9,040,626	\$8,967,585	-\$73,041	-0.8 %	\blacksquare	
DPH_Reporting	DPH_REPORTINGNODE	\$669,569	\$1,034,197	\$1,093,653	\$59,456	5.7 %	_	
DRS_Reporting	DRS_REPORTINGNODE	\$6,766	\$11,164	\$5,151	-\$6,014	-53.9 %	•	
DSS_Reporting	DSS_REPORTINGNODE	\$234,903	\$364,611	\$439,951	\$75,340	20.7 %	_	
DVA_Reporting	DVA_REPORTINGNODE	\$879,828	\$792,027	\$1,013,990	\$221,963	28.0 %	_	
ECD_Reporting	ECD_REPORTINGNODE	\$14,808	\$17,665	\$27,209	\$9,544	54.0 %	_	
ESPP_Reporting	ESPP_REPORTINGNODE	\$1,825,078	\$5,407,478	\$4,955,726	-\$451,752	-8.4 %	•	

REPORT-19

Monthly Utility Use and Cost Spreadsheet

		Electric			Natural Gas				
	Use kWh	Demand kW	Cost	AUC	Use THERM	Cost	AUC		
01-2018	48,235.9	158	\$6,707	\$0.139	8,726.0	\$5,292	\$0.60		
02-2018	47,014.8	158	\$6,561	\$0.140	7,007.0	\$3,995	\$0.57		
03-2018	49,457.1	158	\$6,725	\$0.136					
04-2018	47,625.4	158	\$6,892	\$0.145	5,319.4	\$3,645	\$0.68		
05-2018	57,394.7	158	\$8,100	\$0.141	3,333.2	\$3,115	\$0.93		
06-2018	83,039.1	168	\$10,866	\$0.131	2,887.7	\$2,948	\$1.02		
07-2018	82,428.5	169	\$11,475	\$0.139	3,307.0	\$3,227	\$0.97		
08-2018	79,375.6	169	\$11,135	\$0.140	3,207.4	\$2,994	\$0.93		
09-2018	58,005.3	169	\$8,571	\$0.148	3,406.5	\$2,878	\$0.84		
10-2018	50,678.3	169	\$7,657	\$0.151	4,533.3	\$3,378	\$0.74		
11-2018	48,846.5	169	\$7,298	\$0.149	6,105.6	\$4,188	\$0.68		
12-2018	53,120.6	169	\$7,764	\$0.146	7,337.2	\$4,903	\$0.66		
Total	705,221.7	1,973	\$99,751	\$0.141	55,170.2	\$40,562	\$0.73		
01-2019	51,288.9	169	\$7,531	\$0.147	9,061.4	\$6,065	\$0.66		
02-2019	47,625.4	169	\$7,135	\$0.150	7,803.6	\$5,538	\$0.71		
03-2019	44,572.5	169	\$6,738	\$0.151	7,300.5	\$5,977	\$0.819		
04-2019	50,678.3	169	\$7,544	\$0.149	4,795.4	\$4,457	\$0.92		
05-2019	54,952.3	169	\$8,261	\$0.150	4,156.0	\$4,190	\$1.00		
06-2019	72,659.2	169	\$10,213	\$0.141	3,207.4	\$3,517	\$1.09		
07-2019	78,154.4	168	\$10,317	\$0.132	2,793.4	\$3,078	\$1.10		
08-2019	72,659.2	162	\$9,653	\$0.133	3,086.8	\$3,205	\$1.03		
09-2019	51,899.4	162	\$7,506	\$0.145	3,563.8	\$3,003	\$0.84		
10-2019	40,909.0	162	\$6,161	\$0.151	2,342.6	\$2,456	\$1.04		
11-2019	47,625.4	162	\$6,763	\$0.142	0.0	\$1,201	\$0.00		
12-2019	50,678.3	162	\$7,128	\$0.141	0.0	\$1,201	\$0.00		
Total	663,702.2	1,995	\$94,949	\$0.143	48,110.8	\$43,888	\$0.912		

DASHBOARDS

SEE LIVE DATA

The data is always up to date with what is in our system.

QUICKLY VIEW PERFORMANCE STATISTICS

It's the simplest way to quickly view utility information.

SHARE WITH THE PUBLIC

Dashboards can be made private for internal uses or shared publicly to make information available to stakeholders.

EnergyCAP Version 7 Powerful New Dashboards and Maps



Powerful New Dashboards and Maps

Create and customize different dashboards and maps for divisions within your organization

Benefits of Dashboards

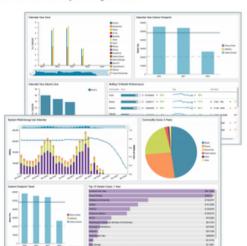
- Easier to find useful information.
- Make smarter decisions.
- Share dashboards with others in your organization.
- · Share information with the public-no login required.

The data is REAL and always up to date!

The Dashboards Shared with Me and the Maps Shared with Me contain dashboards and maps created by a user in your organization and shared with all users. These types of dashboards may be copied, but they cannot be edited.

The ability to create and share dashboards is based on your user role. All users can create personal dashboards. Only certain user roles can share or make dashboards public.

When a user is made inactive their shared dashboards are not available.



Show First 'N' Value

Some filter options may produce too many results for a dashboard and produce an error.

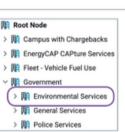
Try using the Show First 'N' Values filter to limit the results in your dashboard.



What is Topmost?

Use the filter Topmost Place Name or Topmost Cost Center Name to analyze a subset of data in your dashboard.

This topmost filter lets you select a lower node in the tree. Your dashboard will display data from this topmost place rather than from the top of the tree.



FREE HOW-TO GUIDE

Look for it in March's meeting recap email

ACCOUNTING AND REPORTING GUIDELINES

THE COMMENT PERIOD HAS CLOSED

on version 1 of EO 1 Accounting and Reporting Guidelines

THANK YOU FOR SUBMITTING COMMENTS AND QUESTIONS

Suggestion: Capturing large quantity of gasoline use being consumed in employee personal vehicles while on state business. [Agency] spends thousands mileage reimbursements for state business in personal vehicles.

Question 1: Is a building that [an agency] owns, but leases out to a private operator, required to be part of EO #1?

Answer 1: No, lease-outs to non-state entities are considered out of EO 1 scope.

BUILDING AUDITS

BUILDING AUDIT SELECTIONS

SELECTED BUILDINGS

Five consultants were each assigned a subset of the 35 locations

Buildings were initially selected on a square footage basis, and then refined based on criteria on the right.

CRITERIA FOR SELECTION

- 1. High, and likely inefficient, energy users due to outdated systems or equipment
- 2. No recent comprehensive energy improvements
- 3. Align with the state facilities plan and broader capital investment goals

35 SELECTED BUILDINGS

Vinal Regional Vocational Tech

Roselle School

Capitol Region Mental Health Center

Whiting Forensic Hospital

18-20 Trinity Street, Hartford

30 Trinity Street, Hartford

505 Hudson Street

Uncas - Campbell Building (Medical Building)

460 Capitol Avenue, Hartford

Rentschler Field Stadium

450 Capitol Avenue, Hartford

Uncas - Southeastern Mental Health Authority

CT Mental Health Center

410 Capitol Avenue, Hartford

Rowland State Government Center

300 Corporate Place, Rocky Hill

Battell Hall

Merritt Hall

DCF Building 8 East Campus

DCF Education/Recreation/Admin Facility

DESPP Laboratory

Department of Public Safety Headquarters

CT. State Police Academy - Main Bldg.

Various Cheshire Corrections Institution Facilities

Carl Robinson Education/Medical and Admin. Facilities

New Center

Garner Correctional Institution

42 Jarvis Street, Cheshire

Bridgeport Memorial Unit

Webster Building

Hartford Correctional Center

R. L. Corrigan Correctional Inst

Brooklyn 300 Bed Dorm & Support

Various Enfield Corrections Institution Facilities

Willard Correctional Institution

THESE 35 BUILDINGS REPRESENT ALMOST 5 MILLION SQ FT

AUDIT LOGISTICS

TIMELINE

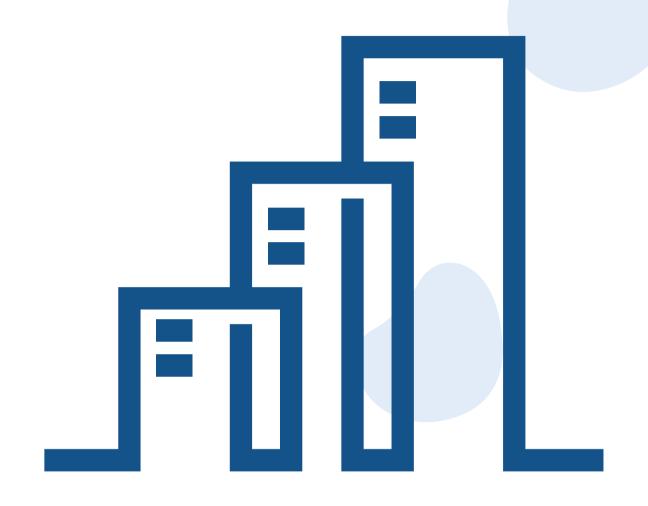
- Contractor site visits commenced on 2/24
- The bulk of the draft reports are expected early July
- Final Reports are expected end of August

ACCURATE BUILDING DATA

- Continued collaboration with DEEP for facility energy use information within EnergyCAP database

INCENTIVES AND COSTS

- Lowered audit costs from \$1.2 million to \$625,000 through negotiation
- Partnering with Eversource and UI for significant rebates; up to 40% of projected audit expenditures



THE GOAL IS TO COMPLETE ALL AUDITS OVER 7-8 MONTHS.

AUDIT REPORTS

GOAL OF REPORTS

The main purpose of the energy audits is to identify nocost/low-cost, and high-impact energy savings opportunities, providing recommendations in line with the State's efficiency goals.

Results will be provided in standardized, comparable reports for each facility.

Audit reports will be used as a basis for planning energy cost reduction projects.

REPORT CONTENTS

- condition of energy equipment
- In-depth analysis of energy/water cost trends and usage patterns
- Energy Use Intensity (EUI*)benchmarking
- determination of potential for energy and water savings
- feasibility of renewable energy systems on the audited property, as applicable

*EUI can be defined as the measurement of a building's annual energy consumption relative to its square footage.

PROJECT TEAM REPORT-OUTS

PUBLIC ENGAGEMENT REPORT-OUT

Goal of Award Ceremony

To recognize and identify champions of sustainability, highlight contributions, and encourage a culture of recognition and longevity.

Nominations Form

- Agency Changemaker nominated by each SSO to a sustainability champion at their agency
- High-Impact Project goes to agencies or institutions in the GHG, Water, and Waste categories
- Governor's Recognition Award 2-3 groups or individuals to recognize in their work in the GreenerGov sphere

Timeline

- March 20: release nominations form
- Early May: Award Ceremony

Details

- Press Release in late April with Awards Ceremony Announcement
- Potential of a low/zero waste event?
- Booths to showcase CT resources

SUSTAINABLE WATER USE STRATEGIES

DIFFICULTY

Strategy 1: Water Conservation and Reduction Sign Campaign

Strategy 2: WaterSense Standards

Strategy 3: Water Management Planning Strategy

Strategy 4: Landscaping and Green Infrastructure

Strategy 5: Water Conservation and How to do it by Mechanical Means

ENERGY EFFICIENCY STRATEGIES

Strategy 1: Complete an energy efficiency project through the SBEA program or another option offered through the utilities, using developed SOP

Strategy 2: Complete a Bond Funded energy efficiency Project using developed SOP

Strategy 3: Use EnergyCAP to run reports to identify buildings that are inefficiently using energy and good candidates for efficiency measures

DIFFICULTY







CLEAN AND EFFICIENT TRANSPORTATION STRATEGIES

Strategy 1: Identify Internal and External Funding Streams For EV Infrastructure.

Strategy 2: Analyze All Aspects Of Agency Vehicle Needs For Efficiencies And Opportunities To Reduce Overall Vehicle Counts.

Strategy 3: Agencies Should Prioritize Purchase Of The Most Fuel-Efficient Vehicles That Meet Program Needs.

DIFFICULTY







SPP SURVEY

Upcoming Survey

The reporting team has prepared a survey on your experience completing the Sustainability Performance Plan.

They hope to use feedback on this survey to shape future reporting.

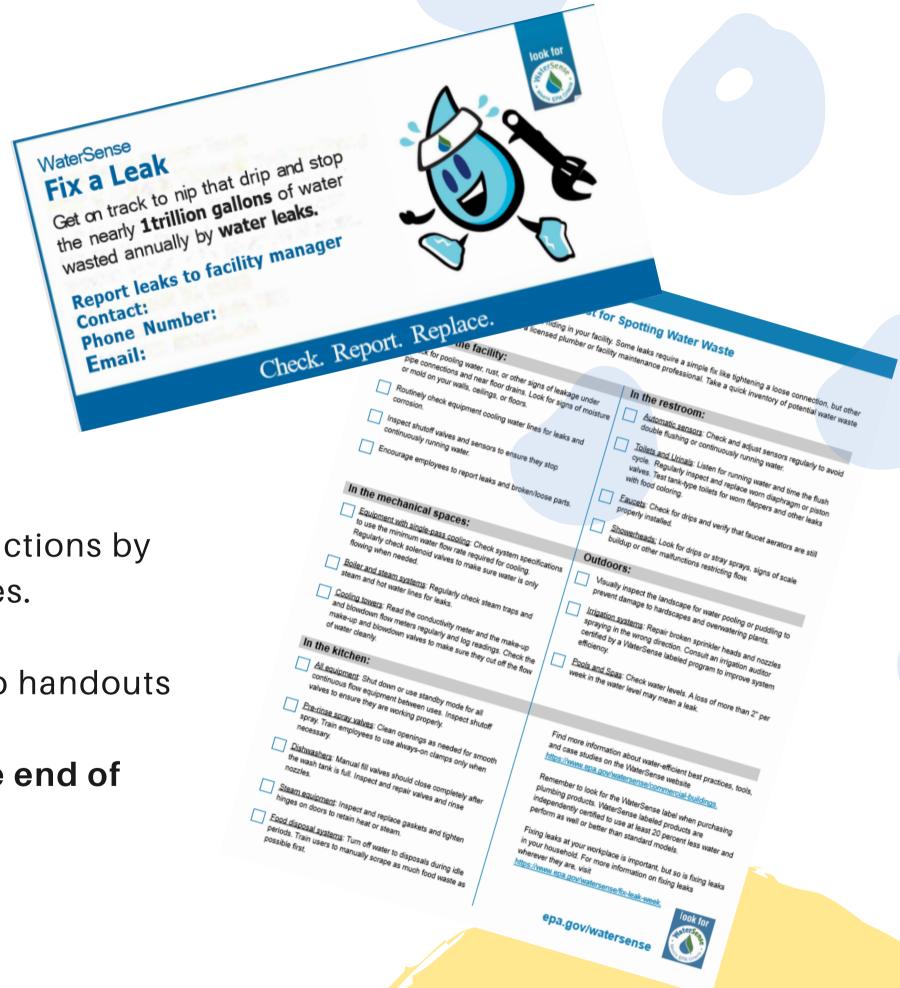
Be on the lookout for a survey from the Reporting Team later this month.



FIXALEAK WEEK

FIXALEAK WEEK 3/16 - 3/22

- Run by EPA's WaterSense program
- Offers an opportunity for SSOs to jumpstart water reductions by reporting and fixing leaks at state buildings and facilities.
- -We will share promotional materials and helpful how-to handouts
- Track reported and/or fixed leaks for a survey at the end of the week



NEXT STEPS

NEXT STEPS

Refine Sustainability Strategies

Project teams may be asked to edit strategies.

Level 3

Complete Level 3 by April 1, 2020

Encourage leak reporting

Fix a Leak week is 3/16 - 3/22