EERMC Monthly Data Snapshot Walkthrough

Presented By: EERMC C-Team

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Additional Data Snapshot Content







Background

The Consultant Team and RI Energy present detailed program results four times each year:

- First, Second, and Third-Quarter Program Results
- Year-End Program Results

Several Councilors have requested increased visibility into program performance data, which led the Consultant Team to develop a Monthly Program Data Snapshot

The Monthly Data Snapshot includes several visuals to display lifetime savings and spending achieved through a given month relative to planned goals



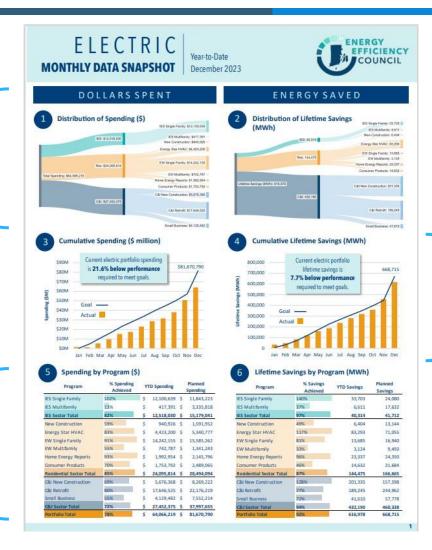




Data Snapshot Overview

Figures 1 & 2 (Sankey Diagrams) illustrate the distribution of spending and lifetime savings for each sector and program.

Figures 5 & 6 (Program Performance Tables) display data bars next to each program, which indicate the percent of budget spent or planned savings achieved to date.



Figures 3 & 4 (Performance Forecasts) compare cumulative spending and savings to estimated monthly achievement required to meet planned goals.



Background

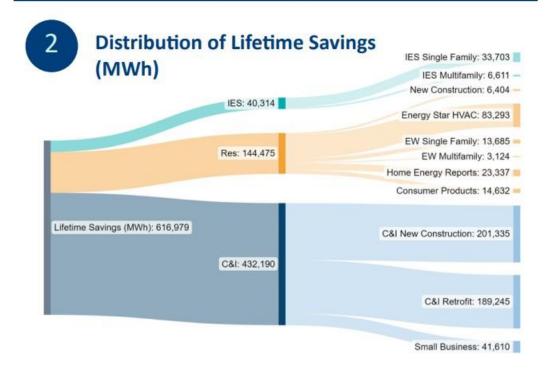
Figures 1 & 2 – Overview

Figures 1 & 2 are Sankey Diagrams which illustrate the distribution of spending and lifetime savings for each sector and program

DOLLARS SPENT

Distribution of Spending (\$) IES Single Family: \$12,100,639 IES Multifamily: \$417,391 -IES: \$12,518,030 New Construction: \$940,926 -Energy Star HVAC: \$4,423,200 EW Single Family: \$14,242,155 Res: \$24,095,814 EW Multifamily: \$742,787 Total Spending: \$64,066,219 Home Energy Reports: \$1,992,954 Consumer Products: \$1,753,792 C&I New Construction: \$5,676,368 C&I: \$27,452,375 C&I Retrofit: \$17.646.525 Small Business: \$4,129,482

ENERGY SAVED

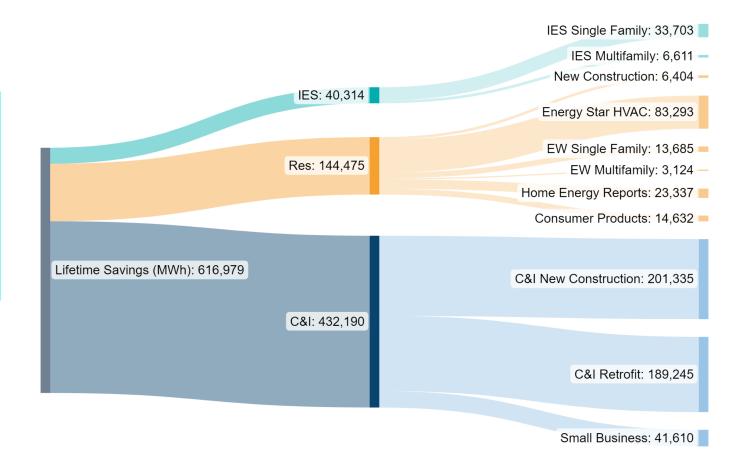




Figures 1 & 2 – Content Description

Distribution of Lifetime Savings

Each branch of the Sankey Diagram represents yearto-date (YTD) performance, or total achievement through the current month.

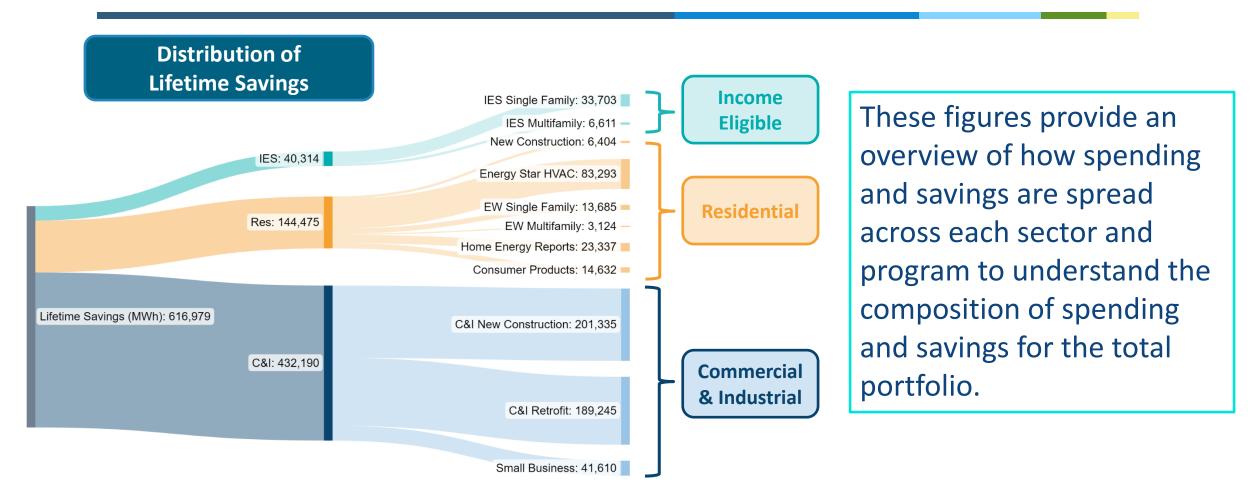


Additional Data Snapshot Content

Year-to-Date (YTD): defines the period of time from the beginning of the current calendar year to the current date



Figures 1 & 2 – How to Interpret



The darker shades represent sector-level branches and lighter shades represent program-level branches.

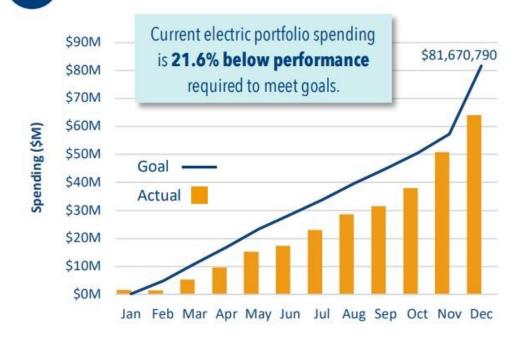
Council Discussion



Figures 3 & 4 – Overview

Figures 3 & 4 (Performance Tracking) compare cumulative spending and savings to estimated monthly achievement required to meet planned goals.

3 Cumulative Spending (\$ million)



4 Cumulative Lifetime Savings (MWh)

Additional Data Snapshot Content





Figures 3 & 4 – How to Interpret

Performance Tracking

The estimated monthly achievement required to meet planned goals is informed by a two-year rolling average of monthly program achievement data. This calculation normalizes historical data to assume goals are met.

3 Cumulative Spending (\$ million)



Note: The orange, vertical columns represent actual YTD achievement. Estimated monthly achievement required to meet planned goals are shown by the forecast line in a darker shade.



Figures 3 & 4 – How to Interpret

Performance Tracking

Any instance where the vertical columns for YTD achievement fall below the forecast line indicate that performance to date is below what would likely be required to meet goals. The opposite is true if YTD achievement exceeds the forecast line.

3 Cumulative Spending (\$ million)





Figures 5 & 6 – Overview

Figures 5 & 6 display data bars next to each program, which indicate the percent of budget spent or planned savings achieved to date.

Spending by Program (\$)

Program	% Spending Achieved	YTD Spending		Planned Spending		
IES Single Family	102%	\$	12,100,639	\$	11,843,223	
IES Multifamily	13%	\$	417,391	\$	3,335,818	
IES Sector Total	82%	\$	12,518,030	\$	15,179,041	
New Construction	59%	\$	940,926	\$	1,591,952	
Energy Star HVAC	83%	\$	4,423,200	\$	5,340,777	
EW Single Family	91%	\$	14,242,155	\$	15,585,262	
EW Multifamily	55%	\$	742,787	\$	1,341,243	
Home Energy Reports	93%	\$	1,992,954	\$	2,145,796	
Consumer Products	70%	\$	1,753,792	\$	2,489,065	
Residential Sector Total	85%	\$	24,095,814	\$	28,494,094	
C&I New Construction	69%	\$	5,676,368	\$	8,269,222	
C&I Retrofit	80%	\$	17,646,525	\$	22,176,219	
Small Business	55%	\$	4,129,482	\$	7,552,214	
C&I Sector Total	72%	\$	27,452,375	\$	37,997,655	
Portfolio Total	78%	\$	64,066,219	\$	81,670,790	

6 Lifetime Savings by Program (MWh)

Program	% Savings Achieved	YTD Savings	Planned Savings	
IES Single Family	140%	33,703	24,080	
IES Multifamily	37%	6,611	17,632	
IES Sector Total	97%	40,314	41,712	
New Construction	49%	6,404	13,144	
Energy Star HVAC	117%	83,293	71,055	
EW Single Family	81%	13,685	16,940	
EW Multifamily	33%	3,124	9,493	
Home Energy Reports	96%	23,337	24,350	
Consumer Products	46%	14,632	31,684	
Residential Sector Total	87%	144,475	166,665	
C&I New Construction	128%	201,335	157,598	
C&I Retrofit	77%	189,245	244,962	
Small Business	72%	41,610	57,778	
C&I Sector Total	94%	432,190	460,338	
Portfolio Total	92%	616,978	668,715	



Figures 5 & 6 – Content Description

Program Performance

The data bars directly correspond to the percent achievement, meaning the bars will increase in size depending on year-to-date achievement (capped at 100%)

5 Spending by Program (\$)

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Figures 5 & 6 – How to Interpret

Program Performance

The columns next to the data bars show numerical values for YTD program spending and savings. Each program and sector is sorted by color for clarity.

5 Spending by Program (\$)

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Council Discussion

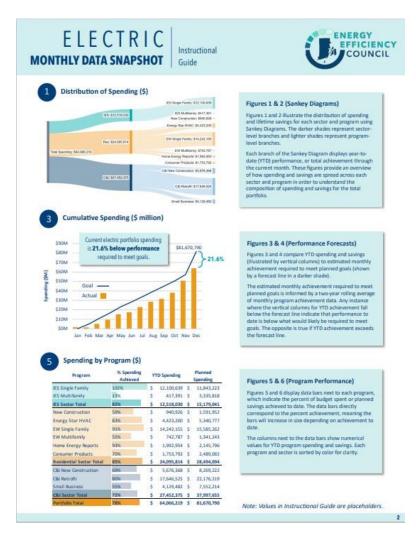


Council Discussion



Instructional Guide

The Data Snapshots include an instructional guide describing each set of figures and the underlying program data.





Program Descriptions & Definitions

The Data Snapshots also include a third page with descriptions of each program and definitions of relevant terms.





Council Feedback to Date

Develop analysis showing the share of gas savings from both gas equipment and non-gas-equipment measures

- Gas equipment: gas-fired space/water heating systems and appliances
- Non-gas-equipment measures: roof, attic, and wall insulation, aerators, controls, energy-recovery ventilation

Reword text in Figure 3 which suggests that underspending is a negative outcome

Data Snapshot should clarify if/when data is preliminary and still subject to corrections from quality-assurance review

Data Snapshot titles should not say "Year-to-Date" if populated with preliminary year-end data (i.e., data through December)

Background







Council Member Discussion

- Is the Monthly Data Snapshot well-designed?
- Are there additional data points that would be helpful to include?
- What qualitative takeaways or summaries can we add to each Snapshot?

