



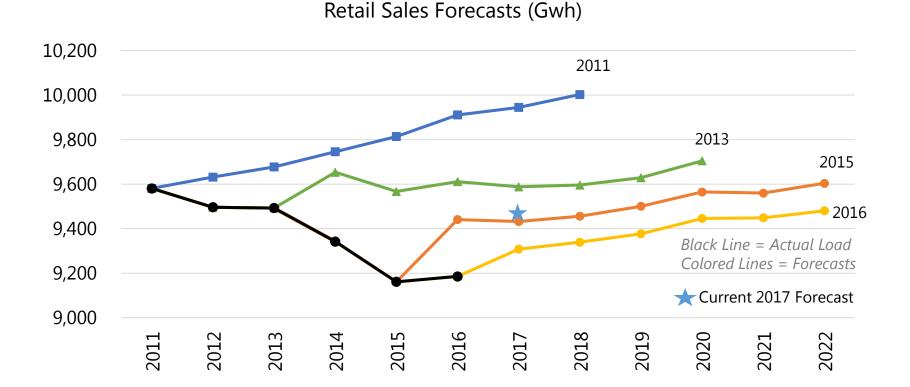
RETAIL SALES FORECAST July 25, 2017 Energy and Environment Committee Meeting

Paula Laschober, City Light Chief Financial Officer Tony Kilduff, Council Central Staff

- Previously:
 - Declining retail sales
 - Need to collect \$30M more annually --> rate pressure
 - Current rate design amplifies retail revenue swings
 - Policy options for revenue stabilization
- Today:
 - Retail sales forecast methodology improvements
- Future presentations:
 - Electrification (revenue) opportunities



DECLINING SALES, REVENUE SHORTFALL



Recent forecasts have not captured the declining trend in retail sales, leading to revenue shortfalls



RETAIL SALES FORECAST METHODOLOGY REVIEW

- Third party review: summary of key findings
 - City Light's methods are not consistent with current industry best practices
 - Need to move to new modeling methods that better capture changes in the energy intensity of customer end uses
 - End uses = Lighting, Heating, Cooling, Appliances....etc.
 - Many utilities facing similar issue



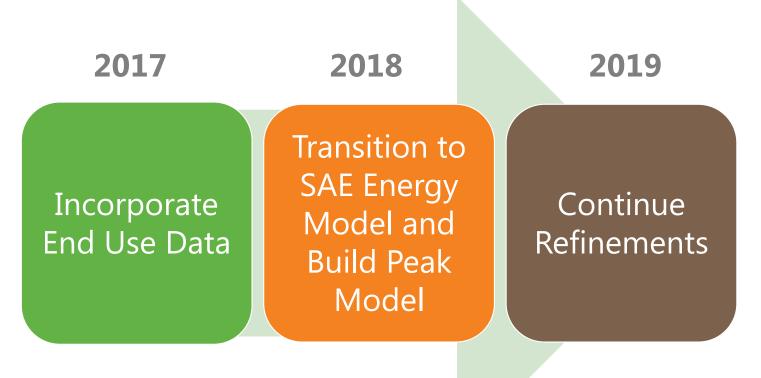
METHODOLOGY IMPROVEMENTS

- Key improvements under way
 - More granular model: change from quarterly to monthly
 - Purchase local economic forecast as opposed to spending lots of time creating our own
 - Access knowledge and data across the utility (Form Technical Advisory Team)
 - Leverage work in the Conservation Potential Study (CPA) to help inform future changes in customer end-uses, including codes and standards
 - Improve modeling of weather effects

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METHODOLOGY IMPROVEMENT TIME FRAME

Load Forecast Model Going Forward

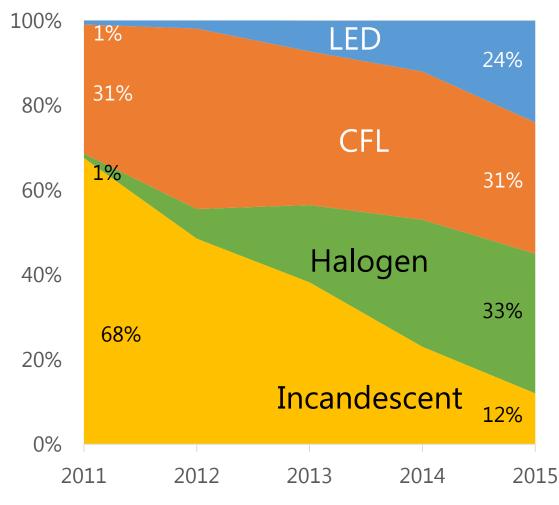


SAE = Statistically Adjusted End Use



INCORPORATING CHANGING TECHNOLOGY

Percentage of General Lamp Sales

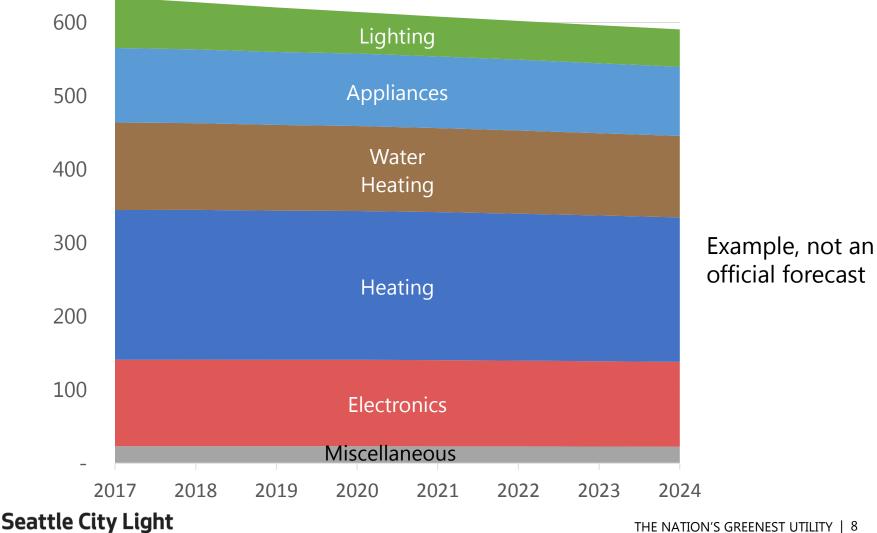


Energy Savings Compared to Incandescent	
LED	87%
CFL	75%
Halogen	28%

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LEVERAGING END USE DATA

Average Monthly Use Per Residential Customer (kWh)



THE NATION'S GREENEST UTILITY | 8

TAKEAWAYS

- Brought in external consultant to review load forecasting methodology
 - Identified many process improvements
 - Some of the changes will take time, work will continue over the next couple of years
- New retail sales forecast to be complete by year-end
 Inform 2019-2024 Strategic Plan and 2019-2020 rates
 Will explicitly model changes in customer end uses
- Improvements will reduce the chances of chronic revenue shortage
 - However, there will always be uncertainty (risk)



Seattle City Light is dedicated to delivering customers affordable, reliable, and environmentally responsible electricity services.

