AGENDA

- CBSA Updates w/ Dulane Moran
- "Hard" to Reach?
- Res Lighting Final Results

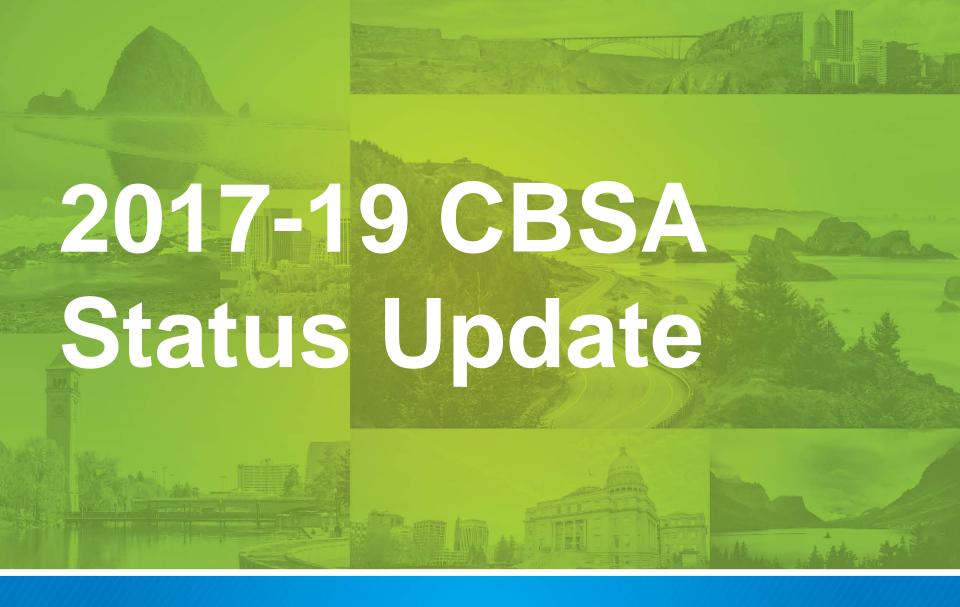
Monthly Call January 4th



ETHAN MANTHEY



NEEA



Dulane Moran

January 4, 2017



CBSA: Context

- Regional baseline stock study
 - Informs efficiency planning, market models, and provides inputs into load forecasts
- Regionally representative study + optional oversamples
- Multi-year, extensive data collection



Timeline: Phased Project

Phase I Q4 2016 - August 2017

Phase II August 2017 – December 2019





Phase I Tasks*

- Assess population frame for accuracy/completeness
- Develop sample frame and recommend sample sizes/stratification
- Refresh data collection protocols and building variables
- Facilitate stakeholder input



Phase II Tasks*

- Develop site recruitment approach and customer contact process
- Develop data collection tool
- Site recruitment & fieldwork
- Analysis and reporting

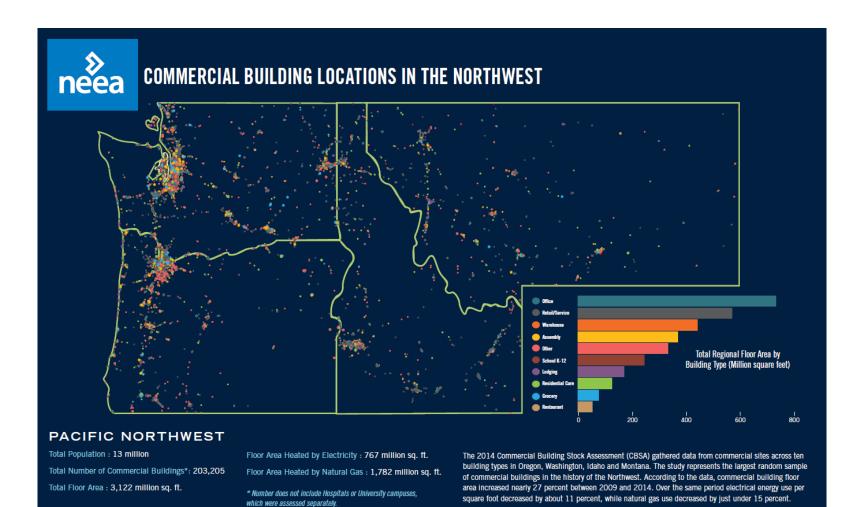


Regional Involvement

- Workgroups focused on sample design and building variables
- Oversample opportunity: 2017-2018
- Periodic, regional stakeholder reporting (Conduit, large-scale webinars)
- Phase II customer contact tasks require engagement throughout the region



Questions?



NEEA.org/CBSA - pg 4



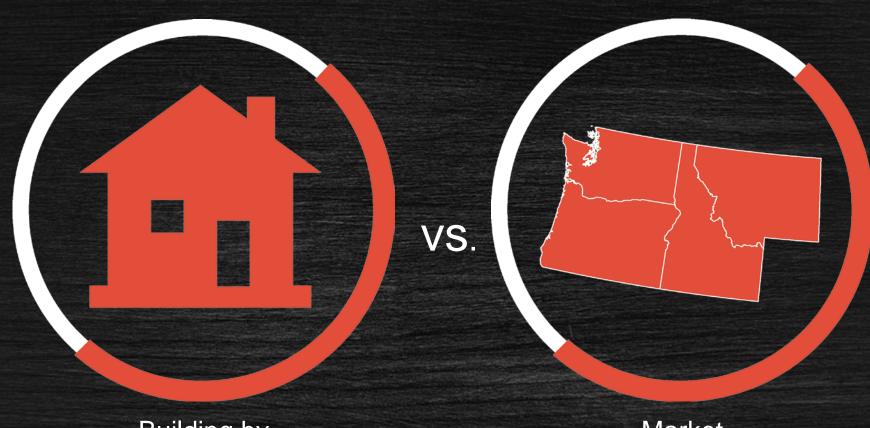


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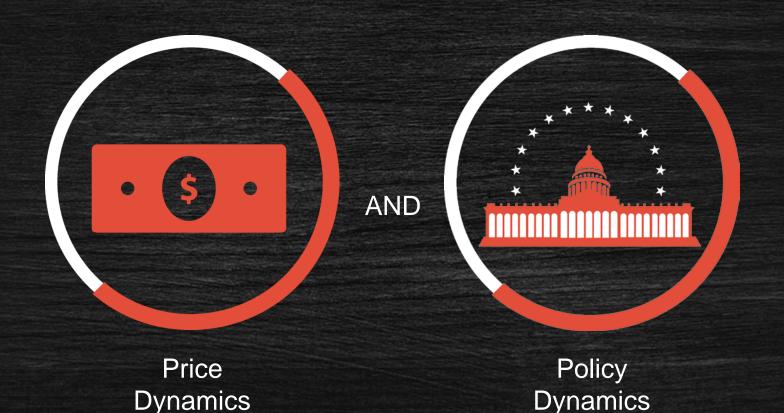
Building by Building

Market Level Different measures or market segments need DIFFERENT

APPROACHES



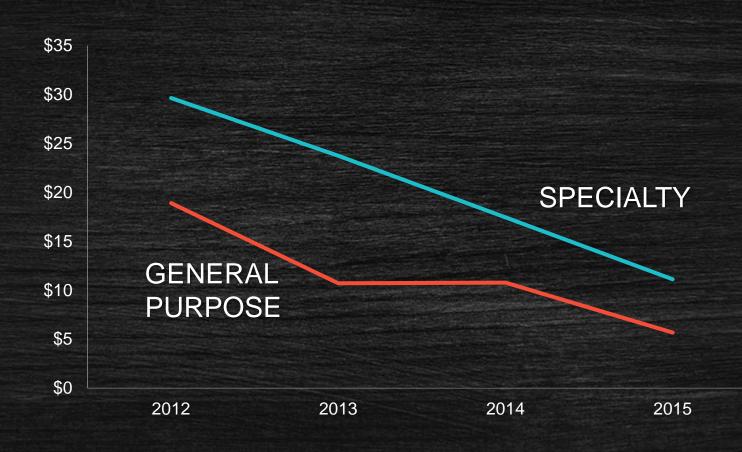
How do we best SATURATE the MARKET and create EQUITY?



PRINCIPLE NO. 01

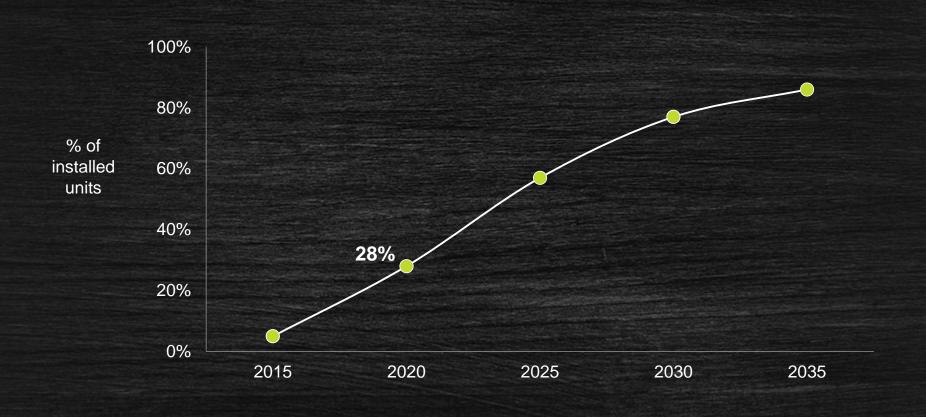
PRICE DYNAMICS

LED PRICES 2012-2015



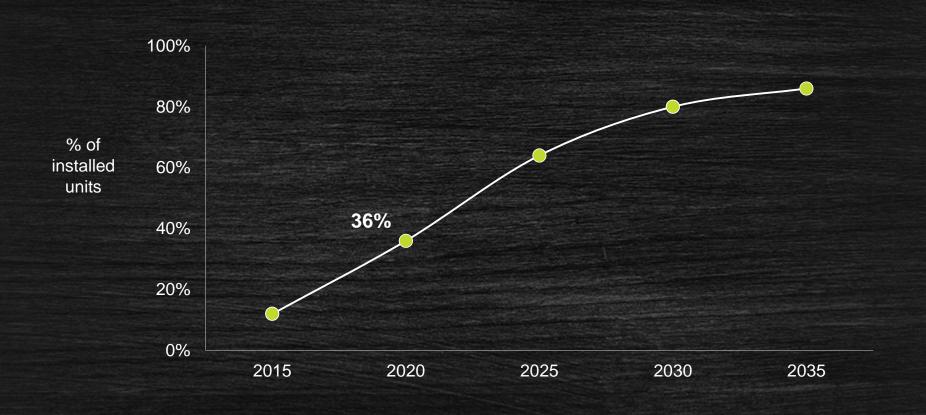
Source: NEEA shelf survey data

FUTURE LED STOCK SATURATION residential



Source: U.S. DOE 2016

FUTURE LED STOCK SATURATION commercial

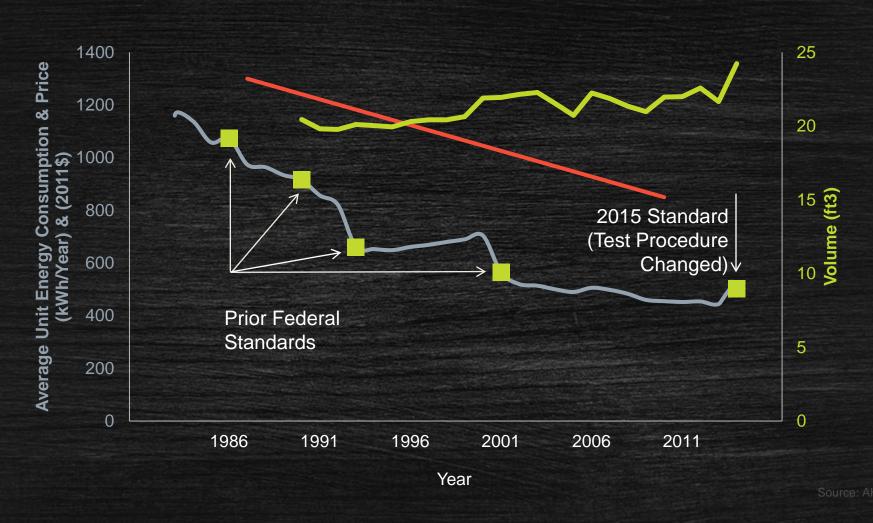


Source: U.S. DOE 2014

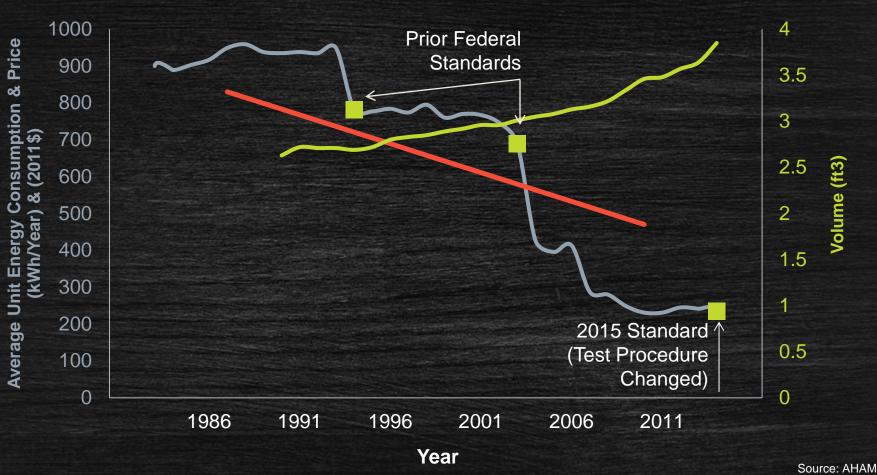
PRINCIPLE NO. 02

POLICY DYNAMICS

RESIDENTIAL REFRIGERATORS STANDARDS IMPACT OVER TIME

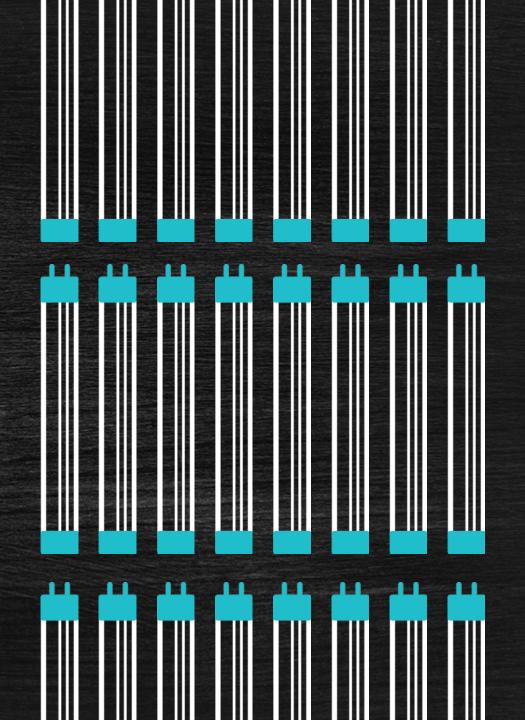


RESIDENTIAL CLOTHES WASHERS STANDARDS IMPACT OVER TIME





Lighting
Maintenance
Market



HVAC Supply Chain

Looking at entire markets tells us a lot about what is hard to reach.

Different measures or market segments may need different strategies to gain the most traction.

- Building by building
- Market level

Everyone gains access to efficiency when you drive prices down at the market level.

Broad-stroke strategies like policy changes creates efficiency across the entire market, ensuring everyone benefits.

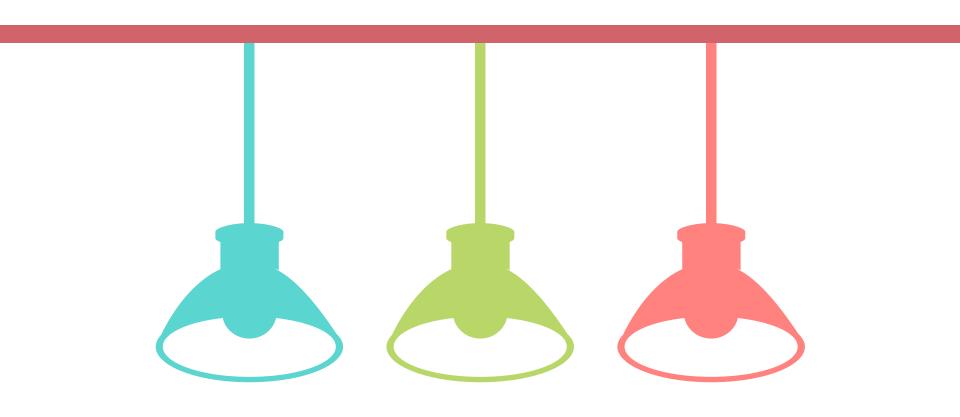
Bonnie Watson

bfwatson@bpa.gov 503-230-3693

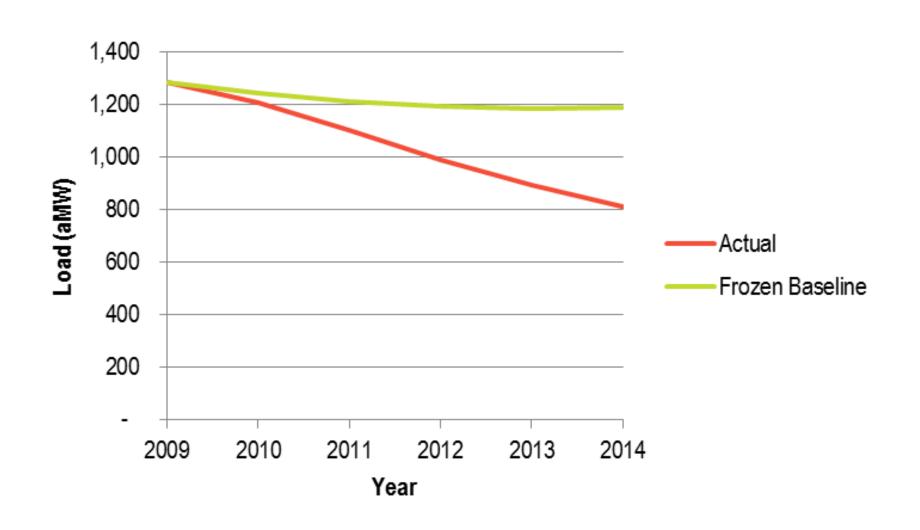


CARRIE COBB

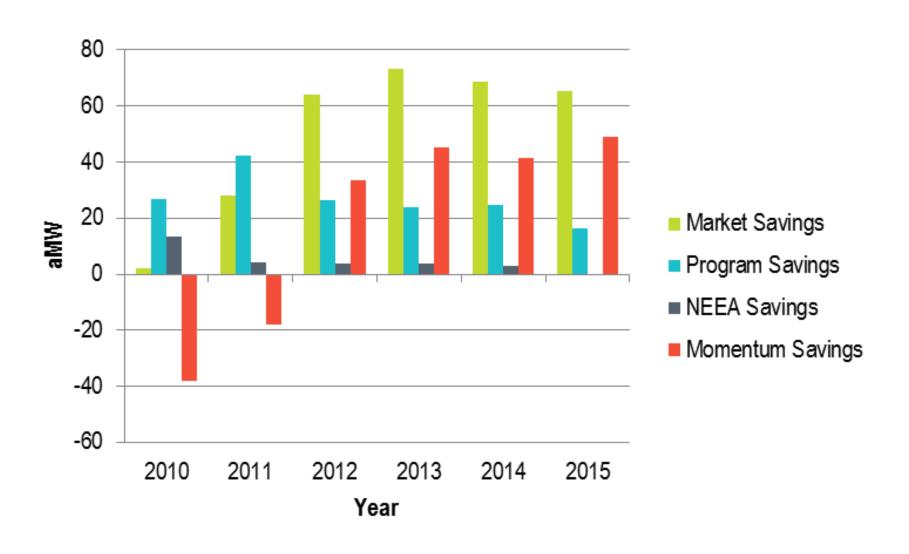
RESIDENTIAL LIGHTING FINAL MOMENTUM SAVINGS RESULTS



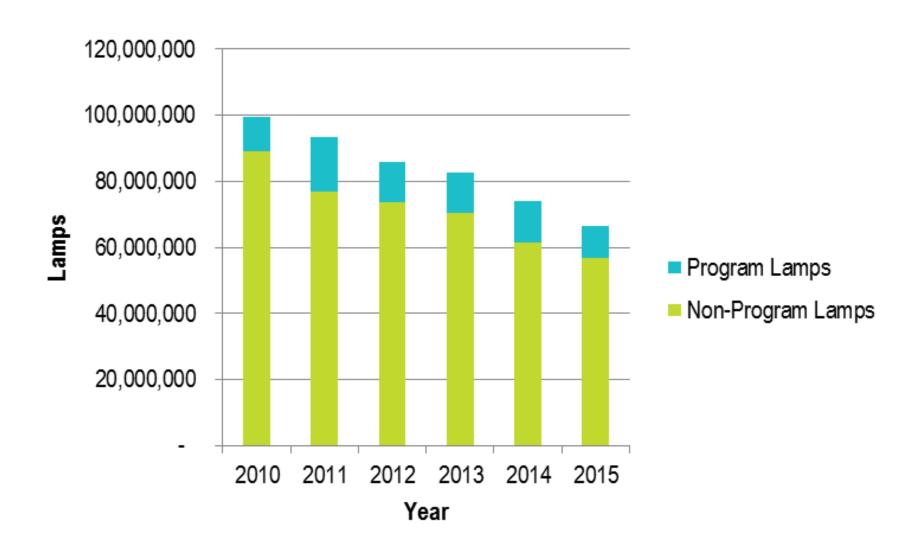
37% DECREASE IN CONSUMPTION 2010-2015



114 aMW MOMENTUM SAVINGS



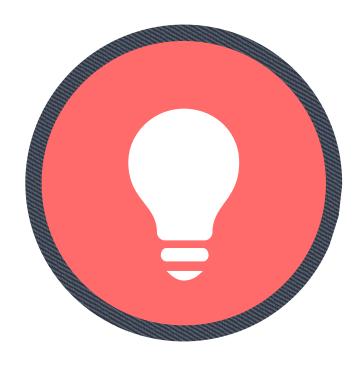
PROGRAMS INCENTIVIZED 15% OF LAMPS



MODELING COMPONENTS

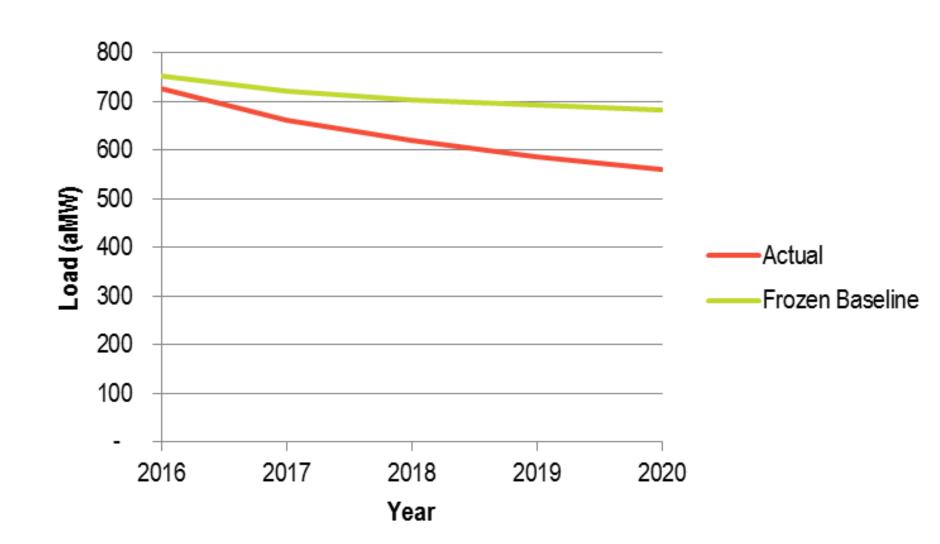


RBSA ALIGNMENT



PROGRAM DATA

23% DECREASE IN CONSUMPTION EXPECTED BY 2020





Model Results

Results are undergoing final review

Model and methodology will be posted to RTF Market Analysis Subcommittee Web page

Market Intelligence Booklet

An overview of what's new in the residential and non-residential lighting market

This publication will be available in late January

Final Report

A complete summary of all the research activities BPA has completed for this study

The report and accompanying presentations will be shared out in February

See you next month!

• Next meeting: February 1st