



Momentum Savings

Monthly Update May 25, 2016

Non-residential lighting sales data collection

RTF Market Analysis Subcommittee

Next steps on baseline alignment

Product Flow and Efficiency Mix 101

Feedback on the Intro to Momentum Savings packet

Agenda

Status Update: Non-res Lighting Data Collection

Quick Context

Stock and Flow

- Sales data measures flow
- Quantifiable information

Lighting Distributors

- Manufacturers too inaccessible
- Contractors too numerous

The Plan

- Recruit our Allies (StrikeForce!)
 - NEEA (Elaine Miller)
 - Evergreen Consulting
 - Utility lighting program managers
 - BPA
- Persuade Distributors
 - Know our audience
 - Appeal to their hearts

Where We Stand (January – May)

More participation than ever

- 2014: 12 distributors
- 2015: 16 distributors
- 2016: 23 distributors... and counting
- Good mix of distributors
 - 5 large
 - 4 medium
 - 14 small
- Overall, a great year

Goals Going Forward

- Mo' Data, Mo' Statistical Certainty
 - Bring in the hold outs
- Sustainable Research Retainment
 - Refine incentives
 - Simplify process
 - Validate trust
- Normalize Data Collection
 - They'll expect us to come knocking

Status Update: RTF Market Analysis Subcommittee



Subcommittee kicking off!

June 10th 9-11 Contact to join: GHerndon@NWCouncil.org

Meeting 1: Fundamentals of Market Analysis Meeting 2: Lighting Model Development Tiger Team

Baseline Library Update

First Meeting: Technical Workshop

- Date: June 8th
- Objectives:
 - Focus on technical modeling in CPA analysis
 - Discuss how having an agreed upon efficiency mix in the baseline might impact implementation of CPAs
- **Desired Outcome:** We make sure that there is no unintended consequence to CPAs from using the same frozen efficiency level
- Attendees: Council staff, NEEA planning staff, CPA consultants (EES, Cadmus, AEG, Utility Consulting, Cadeo)

Second Meeting: Process and Next Steps

- Date: TBA
- Objectives:
 - Summarize key takeaways from technical workshop
 - Discuss the process—when, how and other logistics for managing the process to roll out a regional baseline library
 - Present and discuss options for consideration on how to move forward
- **Desired Outcome**: We gather feedback from the region on how to move forward with developing a regional baseline library
- **Desired Attendees:** Utility staff who manage CPAs, Council staff, NEEA planning staff, other interested stakeholders
- Webpage: http://www.bpa.gov/goto/BaselineLibrary

Product Flow and Efficiency Mix 101

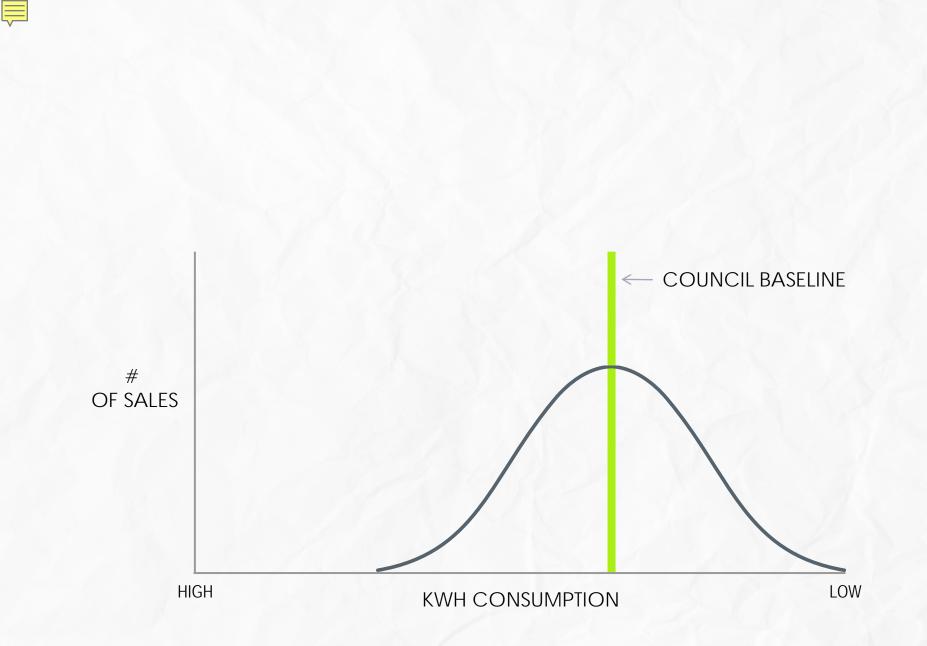
SOME TERMINOLOGY



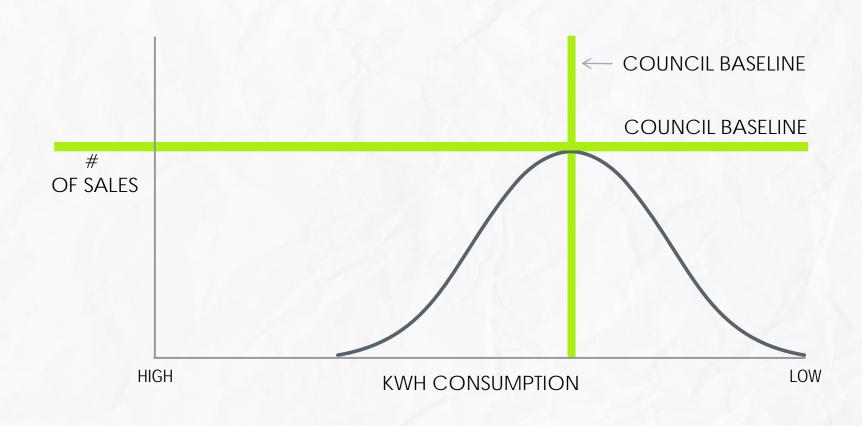
INSTALLED STOCK

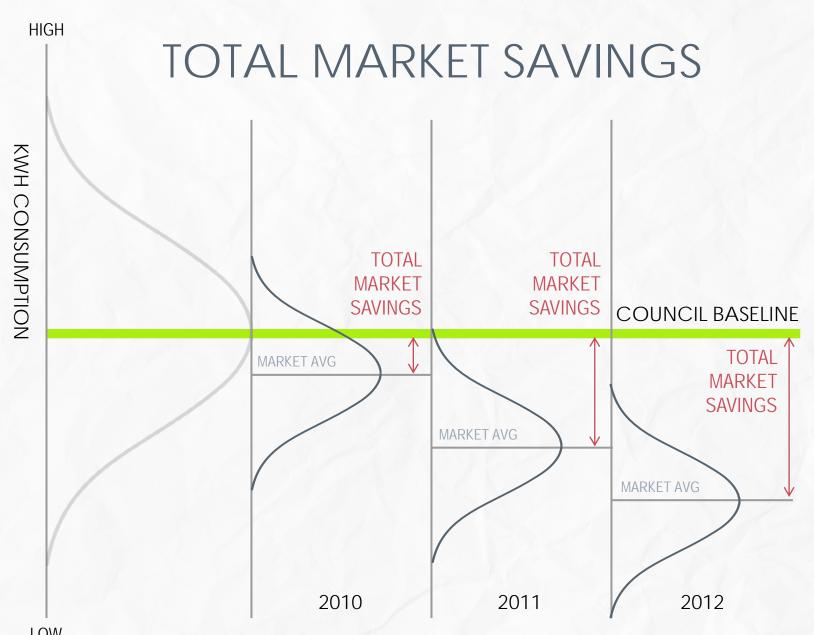


PRODUCT FLOW









Ē

THE EFFICIENCY MIX

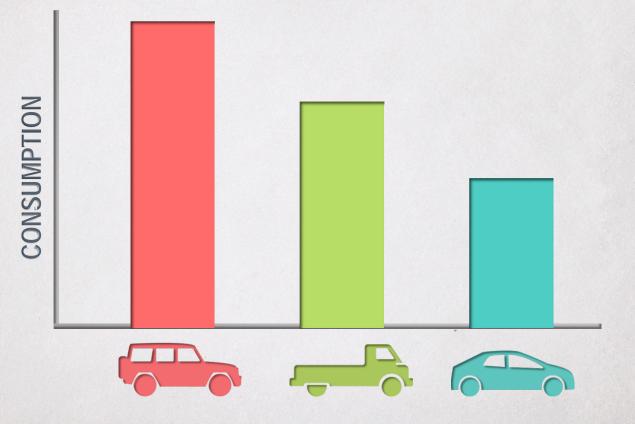


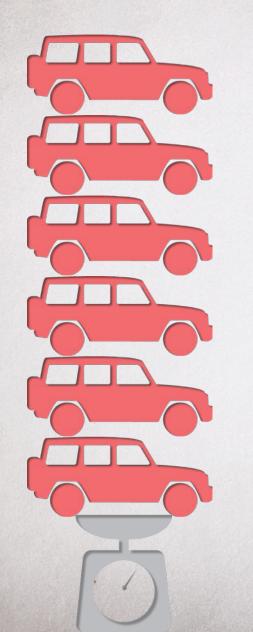


THE EFFICIENCY MIX

is the distribution of sales that fall within each efficiency level in a given market in a given year

UNIT ENERGY CONSUMPTION (UEC)





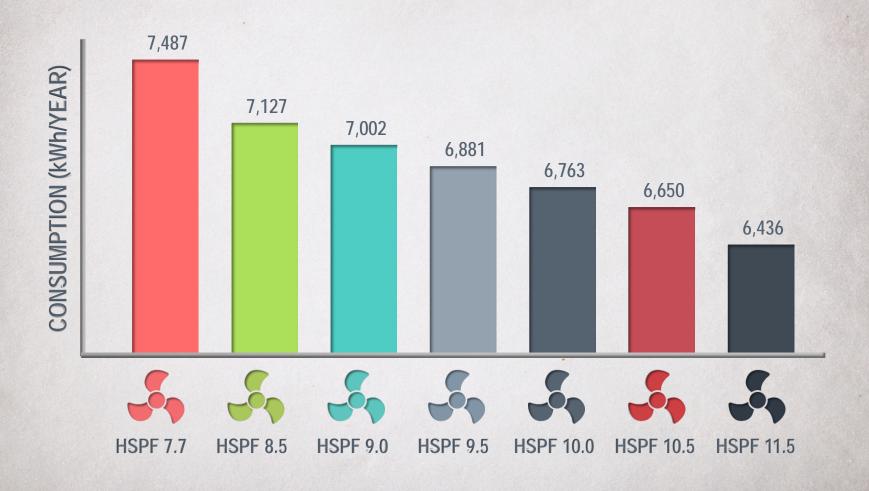
UEC WEIGHTED BY EFFICIENCY MIX

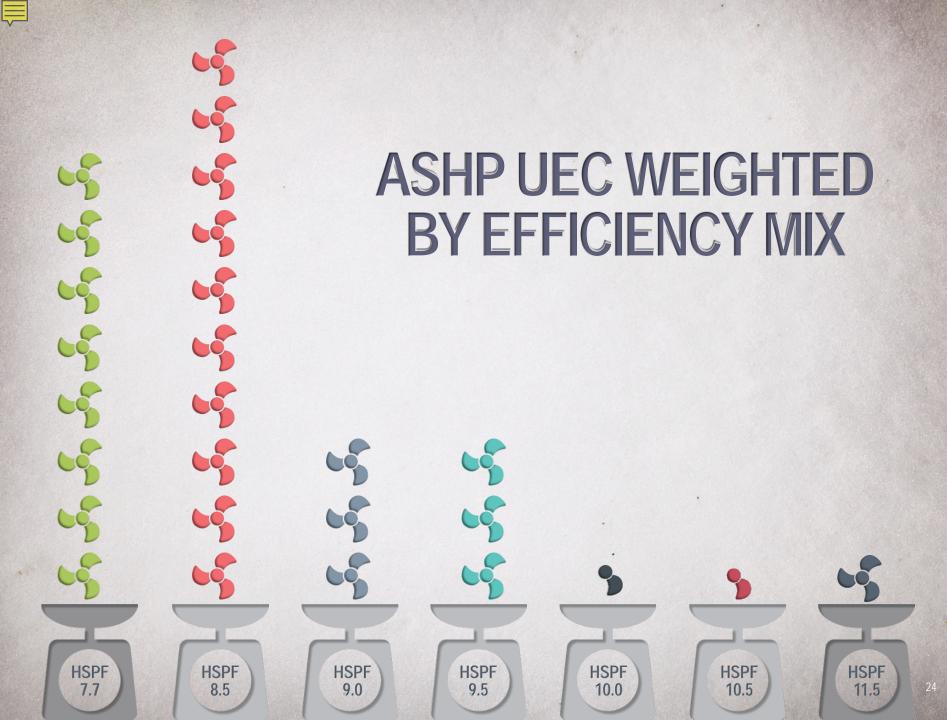
UEC WEIGHTED BY EFFICIENCY MIX

22



ASHP UNIT ENERGY CONSUMPTION





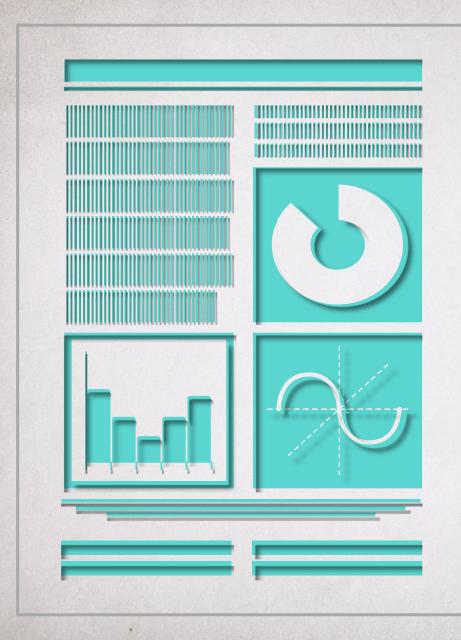
ASHP UEC WEIGHTED BY EFFICIENCY MIX



TAKEAWAYS

- 1. THERE ARE MANY EFFICIENCY LEVELS IN THE MARKET, AND THEY'RE ALL PART OF THE MARKET AVERAGE
- 2. EACH EFFICIENCY LEVEL HAS ITS OWN UEC
- 3. WE WEIGHT EACH UEC BY SALES DATA TO GET OVERALL AVERAGE UEC





DISTRIBUTOR SALES DATA

DISTRIBUTOR TYPES



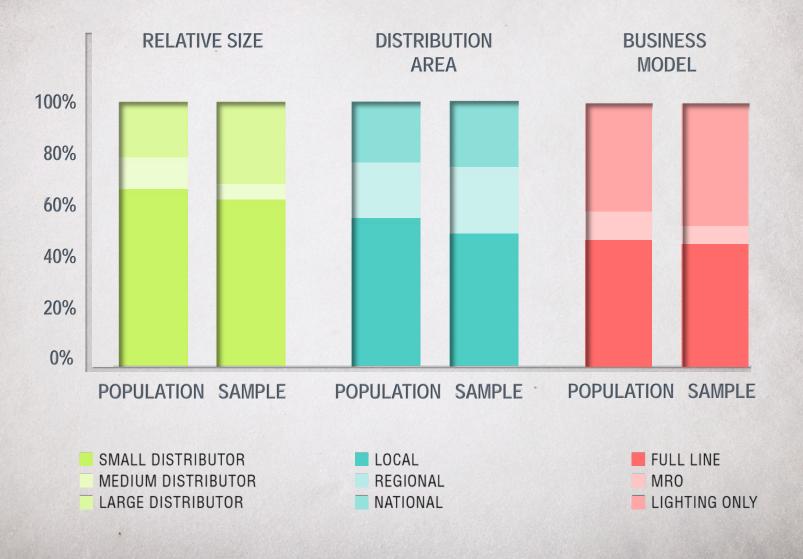




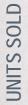
Maintenance Repair & Operations Full Line

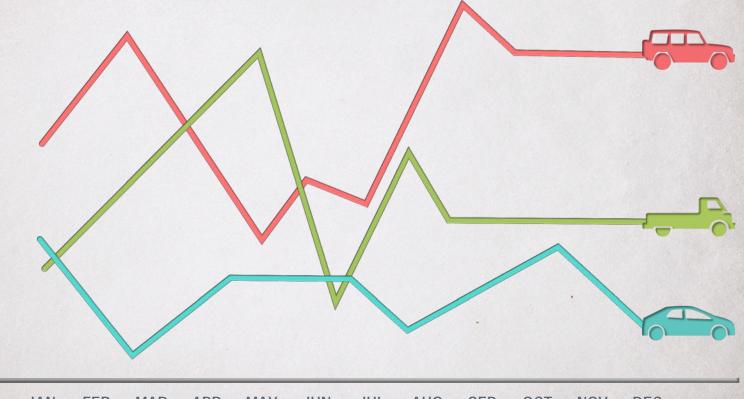
Lighting Only

SURVEY REPRESENTATION



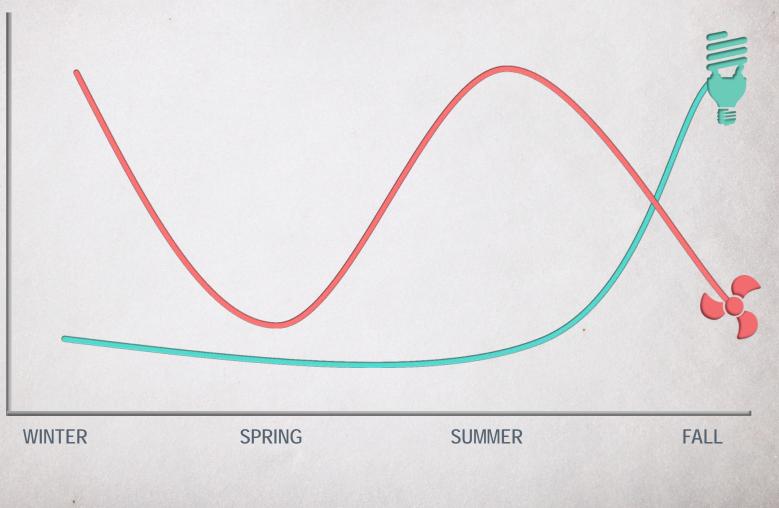
SALES IN THE BASELINE YEAR





JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

SEASONALITY AND SALES



SALES

Not to scale

TAKE-AWAYS

- 1. SALES DATA IS THE BEST INDICATOR OF PRODUCT FLOW AND CAN BE COLLECTED WITH CREATIVITY AND COMMITMENT
- 2. SALES DATA CAN BE REPRESENTATIVE, EVEN WHEN INCOMPLETE
- 3. WE CAN USE MARKET SEGMENTATION TO INFORM WHETHER OR NOT OUR SALES DATA IS REPRESENTATIVE
- 4. WE CAN ACCOUNT FOR SEASONAL VARIATIONS BY ESTABLISHING AVERAGE EFFICIENCIES USING FULL YEAR DATA

LOCAL VARIATION

Ę

IN A BIG-BOX WORLD: MORE SIMILARITIES THAN DIFFERENCES

RBSA DIFFERENCES

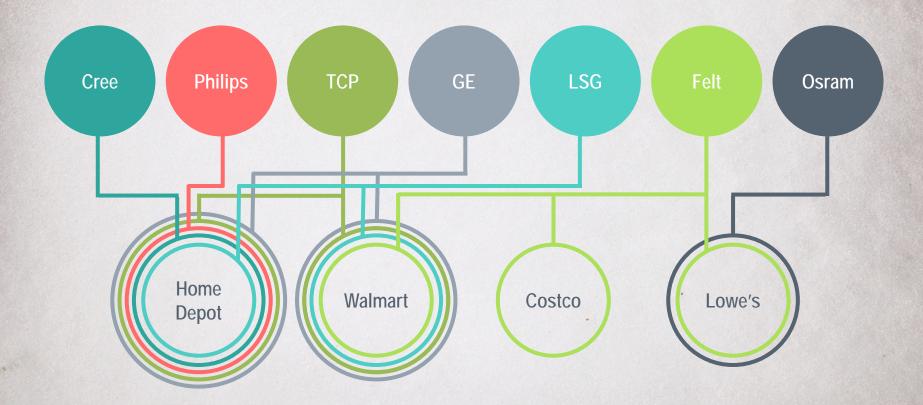


VINTAGE OF HOMES

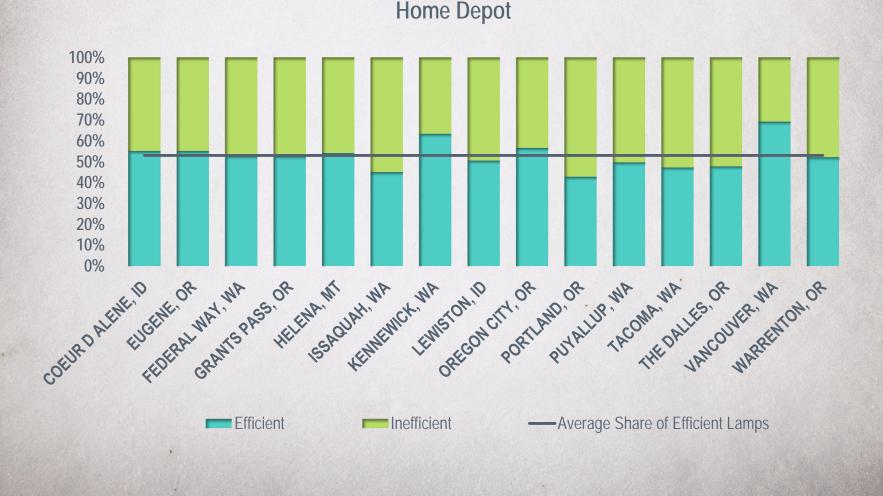


FUEL AVAILABILITY

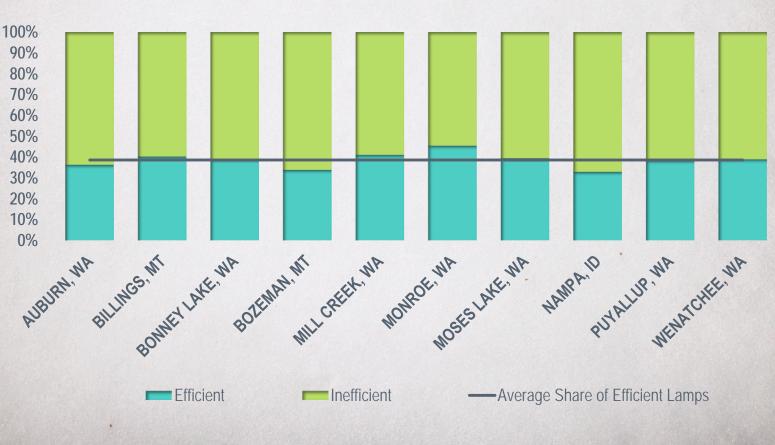
FOUR RETAILERS DOMINATE RESIDENTIAL LIGHTING



SHARE OF EFFICIENT LAMPS STOCKED BY STORE LOCATION

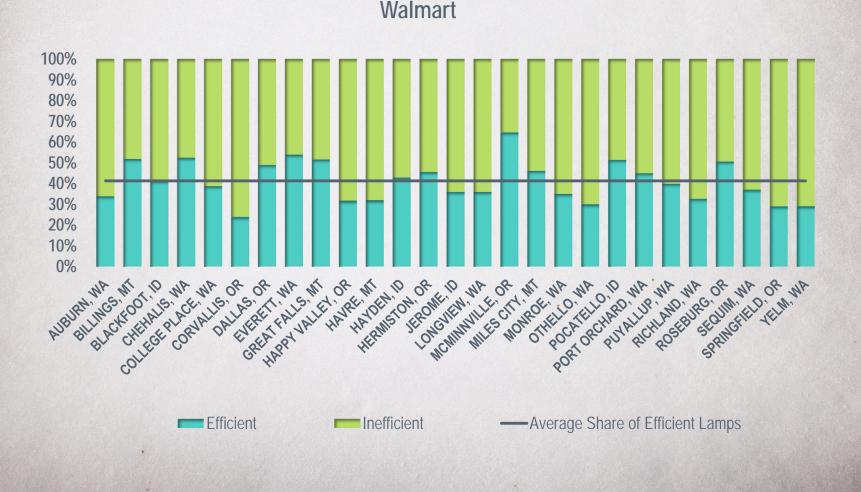


SHARE OF EFFICIENT LAMPS STOCKED BY STORE LOCATION

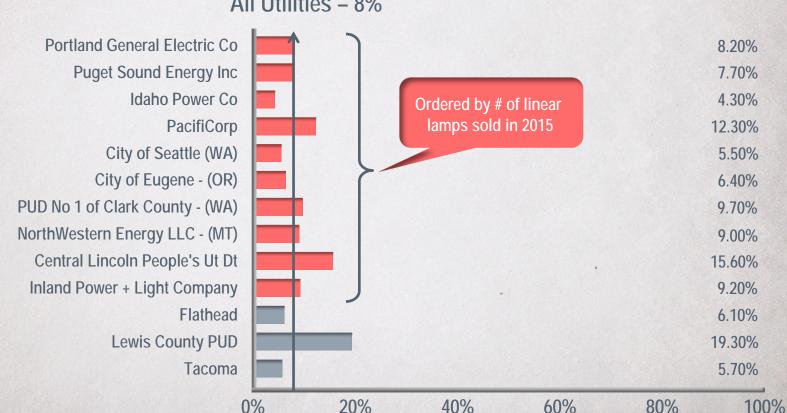


Lowe's

SHARE OF EFFICIENT LAMPS STOCKED BY STORE LOCATION



T12s AS % OF ALL LINEAR LAMPS SOLD INTO TERRITORY



All Utilities – 8%

UTILITY TERRITORY

TAKE-AWAYS

- 1. THERE IS MORE CONSISTENCY THAN DIFFERENCES IN SUB-REGIONAL MARKETS
- 2. VINTAGE AND FUEL AVAILABILITY ARE DRIVERS OF DIFFERENCE
- 3. THE AVERAGE IS ONLY AN AVERAGE

Feedback on Intro to Momentum Savings packet

Ē

HVAC Research Findings Brownbag, tomorrow 12pm

HVAC Market Intelligence Report

www.bpa.gov/goto/HVAC

What's New & Upcoming

Ouestions + Discussion

Next Meeting: June 29th, 9am