ENERGY STAR PARTNER MEETING UPDATE







DRIVERS FOR MARKET CHANGE







Economics

Regulation



Technology

BUH-BYE

Wal-mart: gone Target, Costco, many Ace: leaving Home Depot Lowe's: reducing



SALES SPLITTING





Economics



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HALOGEN PRICES STEADY

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LED PRICES DROPPING

HIGHER WATTAGE AND SPECIALTY

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LED PRICES DROPPING

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Regulation



EISA 2020

Scope Change: DOE just clarified that EISA 2020 proposed rulemaking covers specialty lamps





ONLY SOME LEDs

will be able to meet rule as proposed

CALIFORNIA SPEC ADOPTION

UTILITY VS. NON-UTILITY STORE PLANOGRAMS







LED socket penetration by state



2015-16 Lighting Market Assessment Consumer Survey and On-site Saturation Study http://ma-eeac.org/wordpress/wp-content/uploads/MA-2015-16-Lighting-Market-Assessment-Final-Report-08August2016.pdf

CONDUITED & MOMENTUM SAVINGS

ETHAN MANTHEY

Conduite () EMPOWERED

Inspired by the idea that every energy efficiency professional working in the Northwest can be empowered by a deeper understanding of the fundamentals of energy efficiency.





CONDUIT ED & MOMENTUM SAVINGS

Syllabus

Week 1: What are Momentum Savings?

Week 2: Focus on residential HVAC

Week 3: Focus on residential lighting

Go to Conduit for more information!



ConduitNW.org

Follow the elephant!





Analytical Steps to Avoid



in Momentum Savings

Momentum Savings Analyses are Total Market Analyses













There are two kinds of double counting



DOUBLECOUNTING

Baseline Savings

Momentum Savings Analyses are tracked from the Council baseline



There is efficiency assumed in the Council baseline



There is efficiency assumed in the Council baseline



There is efficiency assumed in the Council baseline



Getting the baseline right is the most important way to avoid double-counting











Counting these bulbs in green is doublecounting



The region uses many different baselines for reporting energy savings



We true up program savings for double counting






What is Overlap?





Correcting for Overlap







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Overlap Between Momentum Savings Analyses and Codes + Standards



Example: Residential Heat Pumps



Example: Small Packaged AC

	Washington State Commercial Building Code	Momentum Savings from Packaged AC Standards	Overlap?
Technology			✓ ✓
Efficiency Levels	Minimum 14.0 SEER for Single Package Units < 5 tons	Minimum 14.0 SEER for Single Package Units < 5 tons	✓
Time	Compliance in 2015	Compliance in 2017	~











Example: Walk-in Coolers













Example: Refrigerators

	NEEA Savings from Energy Star 4.0	Momentum Savings from Refrigerator Standards	Overlap?
Technology	ENERGY STAR	Image:	✓
Efficiency Levels	Baseline to EnergyStar 4.0	Baseline to Federal Standard (> EnergyStar 4.0)	✓
Time	2010-2015	2015	✓



Correcting for Overlap





Two Key Numbers





Correcting for Overlap



A GUIDE TO AVOID DOUBLE COUNTING MOMENTUM SAVINGS

Overlap occurs when two analyses find savings from the same efficiency levels, of the same technology, at the same time. This graphic will help analysts avoid and correct for this type of overlap when estimating momentum savings from standards and markets.

ARE YOU ANALYZING





TRUING-UP BASELINES

BPA and other entities must claim energy savings-programmatic, momentum, or otherwiseagainst a predetermined baseline. Most often, entities in the Northwest use the baseline as defined in the Northwest Power and Conservation Council's (the Council) current power plan. Unfortunately, not all analysts in the energy efficiency industry interpret the Council's defined baselines in the same way, or in some instances, use them at all. This complicates savings estimates, and may result in double-counting or lost savings opportunities. To avoid this pitfall, analysts must first identify and reconcile the baselines used in each analysis. Doing so will ensure analysts count savings from a common starting point and accurately capture overlap.

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STANDARDS The next wave of big savings



SHARE OF BUILDING ENERGY USE SUBJECT TO STANDARDS



STANDARDS ADOPTED BY ADMINISTRATION



*As of June 20, 2016 Source: ASAP/ACEEE

RESIDENTIAL REFRIGERATORS STANDARDS IMPACT OVER TIME



Source: AHAM

RESIDENTIAL CLOTHES WASHERS STANDARDS IMPACT OVER TIME





















EVOLUTION OF MAX TECH





EVOLUTION OF MAX TECH





19 NEW STANDARDS SINCE JANUARY 2015

OOOOOO 7 Consumer Products

8 Commercial Equipment





THIS ESTIMATE IS BASED ON NATIONAL ANALYSES











NEXT GENERATION STANDARDS







NEARLY 80% OF THE POTENTIAL ELECTRICITY SAVINGS COMES IMPROVING THE OF EFFICIENCY OF 10 PRODUCTS


FUTURE MODELING EFFORTS WILL REFINE THIS ESTIMATE



Focus on PNW Data Stock Turnover Regional Collaboration

WATCH FOR

- 1. Residential Lighting Final Results
- 2. Non-residential lighting draft results
- 3. Agriculture Market Study Final report and presentation
 - » PART ONE 11/29 10-11:30am
 - » PART TWO 12/13 10-11:30am
- 4. Lighting Market Analysis Booklet
- 5. EEI trade show interview findings

Next meeting: December 7th at 9am