CONSISTENT

















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WHAT IS THE POWER PLAN BASELINE?



Power Plan







FROZEN EFFICIENCY BASELINE FORECAST

Efficiency Level is Fixed at the Start of the Power Plan (2010 for Sixth Plan)







WHY FROZEN?

Avoids Double Counting of Savings





BASELINE RESETS FOR EVERY PLAN

In reality, the baseline moves prior to the new plan, but we keep it frozen until the new plan!





AN EXAMPLE: DISHWASHERS





IMPORTANCE OF BASELINE



Council Baseline













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BPA Brown Bag: Developing Consistency in Baselines

NEEA Staff:

- Susan Hermenet
- Christina Steinhoff







Baseline Used for Forecasting and Reporting Energy Savings

Report	Baseline Used
Bonneville Power Administration	Power Plan
Public Utilities in Washington State – Direct Funders	Power Plan
Investor Owned Utilities in Washington State	Power Plan
Investor Owned Utilities & Energy Trust of Oregon outside of Washington State	NEEA
NEEA's Business Plan	NEEA



Forecasting and Reporting Energy Savings using the Power Plan Baseline

- We started in 2010 based on funder requests.
- Now, we provide the reports upon request.
- Each year, NW Power and Conservation Council staff reviews the assumptions, measure definitions and methodologies to ensure alignment.
- The Cost Effectiveness and Evaluation Advisory Committee also reviews the calculations as a standard part of our annual reporting process.



Energy Savings Categories used for forecasting and reporting using the Power Plan Baseline



- Total Regional Savings: Savings associated with all market changes above the Power Plan baseline.
- Local Programs Savings: Savings claimed through local utility, Bonneville Power Administration, and Energy Trust of Oregon activities.
- Remaining Savings: Savings above the Power Plan Baseline not counted as Local Programs. (Total Regional Savings- Local Programs)



Where do Momentum Savings fit in

- Momentum savings are captured in the remaining savings category that NEEA reports.
- There are markets with product categories which have multiple tiers of efficiency.
 - For purposes of NEEA reporting, staff tracks and reports savings associated with product tiers in which the intervention influenced.
 - For product tiers that NEEA has not claimed to influence, NEEA does not report those savings. Hence there may be momentum savings available for these tiers NEEA is not tracking.



Forecasting and Reporting Energy Savings using the Power Plan Baseline

- Investor Owned Utilities in WA Direct Funders
 - Update technical assumptions (loads/year, hours of use, etc.) based on Regional Technical Forum decisions or third party research if the assumptions are more current/relevant.
 - Units are forecasted using prior year
 - » Establish a 2015-2016 savings forecast, the baseline year would be 2014.
 - Assumptions used to establish the targets are frozen for two years and used to report savings
- Bonneville Power Administration and Public Utilities
 - Update technical assumptions (per above)
 - Do not update baseline during the plan period
- Work with individual direct funders of NEEA upon request



NEEA's Contribution to the Power Plan



*Remaining Savings are electric energy savings less savings claimed through the Energy Trust of Oregon, Bonneville Power Administration, and local utilities.

Note: The forecast does not include some new and future initiatives such as RETA Operator Certification, Commercial Real Estate, and Luminaire Level lighting Control.





Questions & Comments

Thank You!

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TOGETHER We Are Transforming the Northwest













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Why Momentum Savings?

What are Momentum Savings?

Mo' and Baselines

A path forward

MOMENTUM SAVINGS CRITERIA







Not directly paid for by programs and not claimed in NEEA's net market effects Cost effective

Measured relative to frozen baseline





EFFICIENCY CHANGES LOADS

30,000



Source: Draft Seventh Power Plan

IDENTIFY PROGRAM OPPORTUNITIES AND SUPPORT PROGRAMS

MAINTENANCE IS A NEW PASTURE

60-75%

of the market lamp sales (depending on the product).

SUPPORTING PROGRAM BASELINES

7% CFL 91% OF 'SPECIALTY' **BULBS ARE INCANDESCENT AND HALOGEN** 2% LED **12% HALOGEN**

79% INCANDESCENT



AND SAYING NO TO SOME THINGS



60 w

13.7





RESPONSIBLE

STEWARDSHIP OF RATEPAYER FUNDS



UTILITIES PLUS BPA

UTILITIES DELIVER THE REGION'S ENERGY EFFICIENCY



WHAT ARE THE DIFFERENT BASELINES?



TYPE: CURRENT PRACTICE BASELINE

COUNCIL BASELINE =

MARKET AVERAGE 1,600 HALOGEN CFL 1,400 1,200 1,000 # OF SALES 800 IN LED **INCANDESCENT** THOUSANDS 600 400 200 0 11 21 31 41 51 61 1

EFFICACY

General Purpose lamps, 60-75w equivalent

TYPE: CURRENT PRACTICE BASELINE



Linear Fluorescent Lamps, 4ft Standard Output

USE: COUNCIL OR CPA BASELINE

COUNCIL BASELINE

CPA BASELINES

1st BIENNIUM 2nd BIENNIUM

3rd BIENNIUM

BASELINES AND MOMENTUM SAVINGS











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EFFICIENCY ASSUMED IN THE BASELINE

TOTAL SALES MIX



YEAR ONE

YEAR TWO

YEAR THREE

TOTAL SALES MIX



YEAR TWO

YEAR ONE

YEAR THREE



TOTAL SALES MIX



YEAR ONE

YEARTWO

YEAR THREE

ALGNMENT



MOMENTUM SAVINGS WITH COUNCIL BASELINE





MOMENTUM SAVINGS WITH BI-ANNUAL BASELINE



POSSIBLE SOLUTIONS

ASK NGAIN LATER







COMMUNICATE









OPTION 2





DETAILS ON PUBLIC COMMENT PERIOD



BPA will open public comment for input on this topic and notify instructions via the weekly announcements A webpage with a short memo describing the baseline library and these slides will be available for review

2

Public Comment will continue through mid-January

3



BPA will post public comment received and our plan for action a few weeks after public comment closes

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