

Unit Energy Savings (UES) Evaluation 2016 Overview

BPA will evaluate some of the UES measures, including the high priority measures in Residential Lighting, Envelope and HVAC

Evaluation objectives

1

Evaluate UES energy savings for consistency with the savings claimed

2

Provide strategic feedback to improve program operation and measures

3

Assess savings to inform RTF or BPA Qualified estimates (if appropriate)

Overview of Approaches

The evaluation team balanced multiple considerations when selecting the evaluation approach for each Measure Group; measure status, contribution to savings, uncertainty and strategic importance

Residential Lighting



Engineering Review

Retail & By Request
Customer Files

Residential Envelope



Billing Analysis

Envelope, prescriptive duct sealing & DHP w. FAF
Billing data, if issues – staged approach

Residential HVAC



Engineering Review

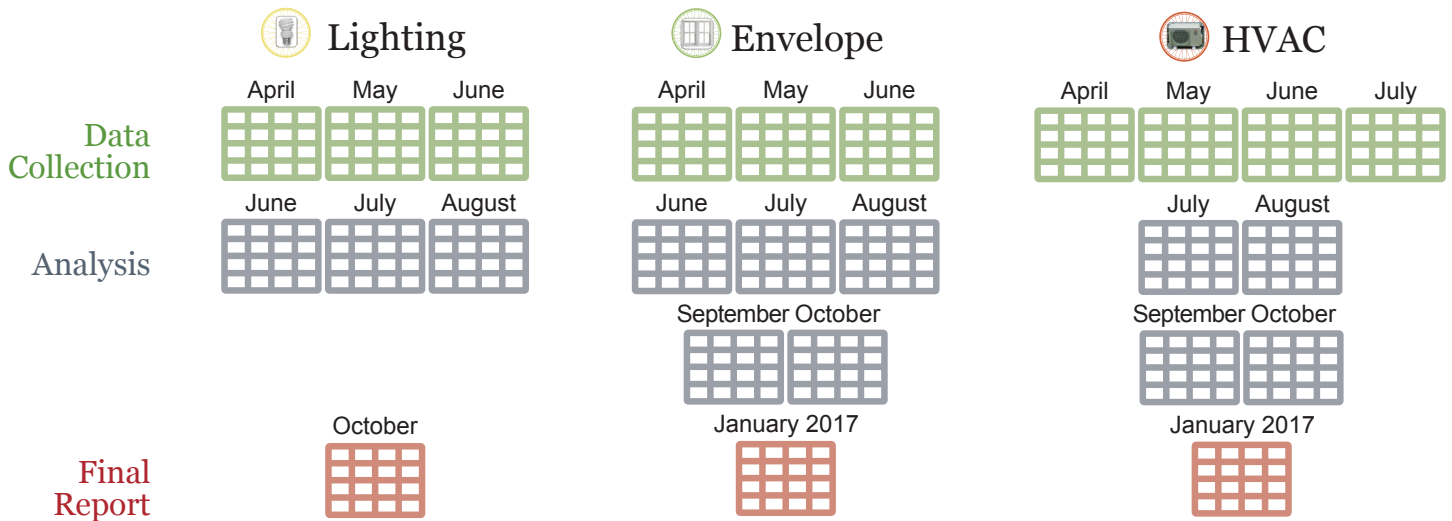
HPs, CCS, performance duct sealing
PTCS QA/QC data

Sample Design

Domain	Measure Group	Number of Utilities in Sample	Target Number of Projects
LIGHTING	Retail	7	75
	By Request	6	65
ENVELOPE	Insulation*	10	~1700
	Windows*	15	~2500
HVAC	Prescriptive Duct Sealing*	10	~500
	DHP replacing FAF*	15	~800
	HP, CC&S, Performance Duct Sealing	n/a	170



2016 Schedule



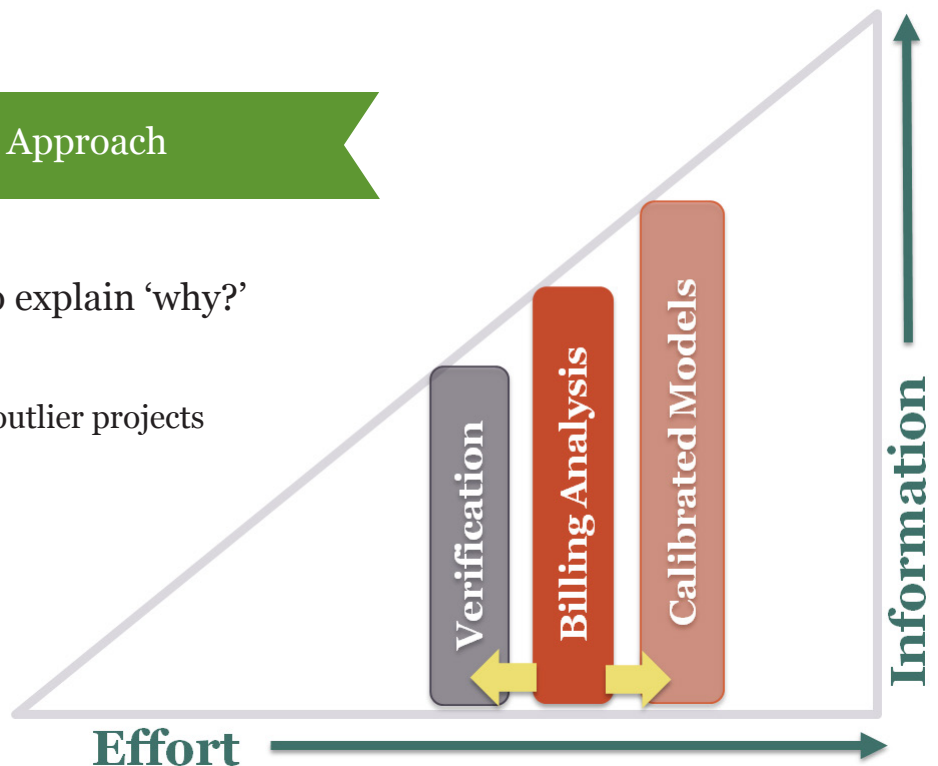
Billing Analysis with Staged Approach

Minimize burden

Provide an opportunity to explain 'why?'

What's the 2nd stage?

- Customer files for select outlier projects
- Baseline heating system, Home square footage
- Phone surveys
- Secondary heat, Changes in occupancy
- SEEM model calibration



For more information, please visit www.bpa.gov/goto/evaluation or [click here for the full story](#)