

Automated M&V: Notes from the Field

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U.S. DEPARTMENT OF
ENERGY



EnergySavvy at a glance

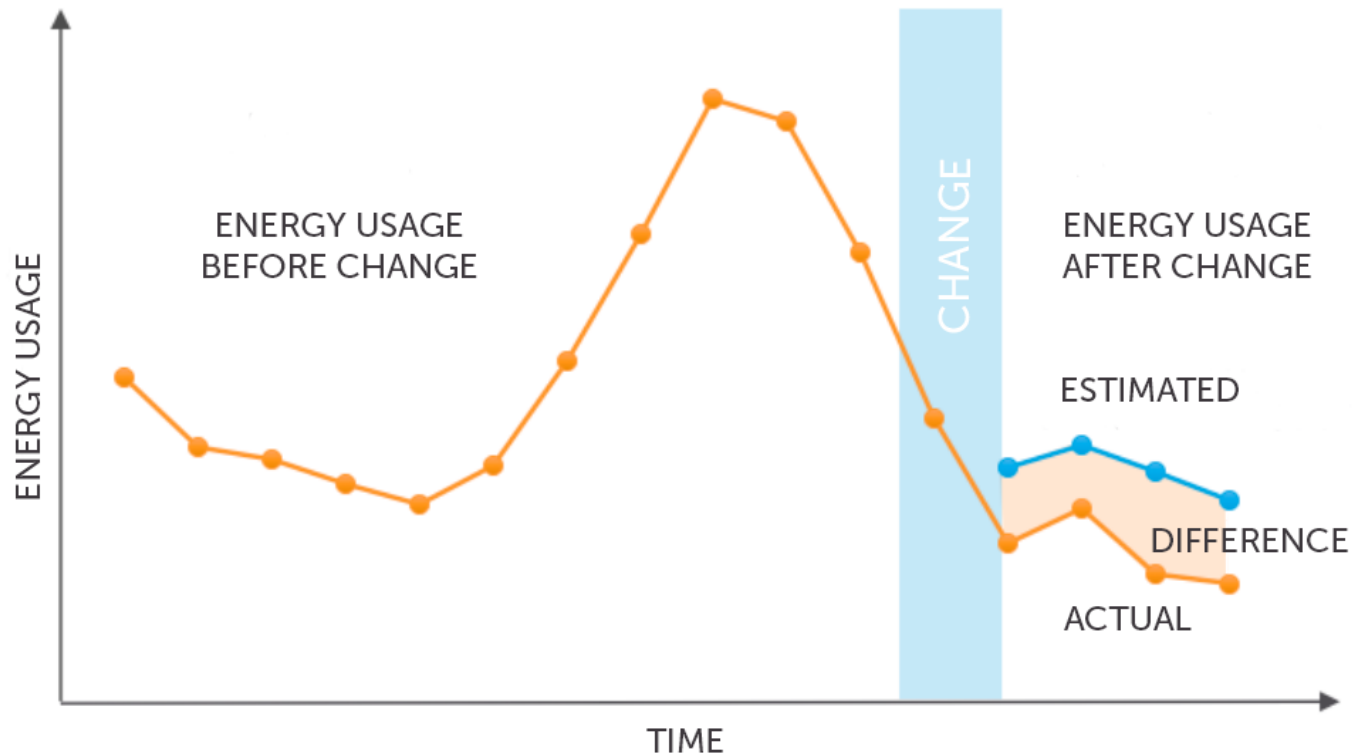
Cloud software for the utility industry



Quick Facts

- 30+ utility/DSM clients
- 100% cloud software
- Seattle & Boston offices
- Founded in 2008
- 2 years Automated M&V
- 7 clients early adopters

How Does Automated M&V Work?



Continuous Measurement

Feedback on program performance during implementation

PROGRAM SAVINGS

156 ± 12.5 / 250

METERED (MWh)

63% ± 5% OF GOAL

78% ± 6%

REALIZATION RATE

63% ± 5% OF GOAL

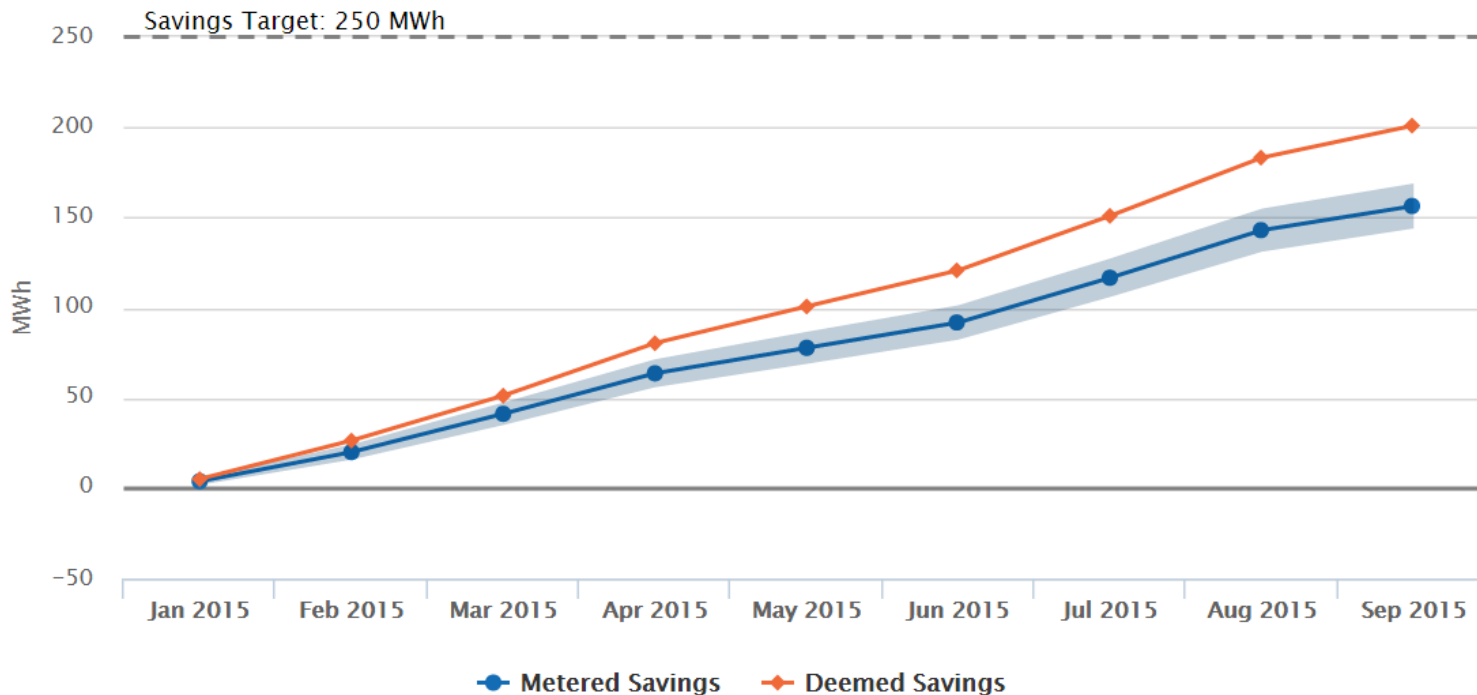
PROGRAM PROGRESS

1,485 / 2,100

PREMISES TREATED

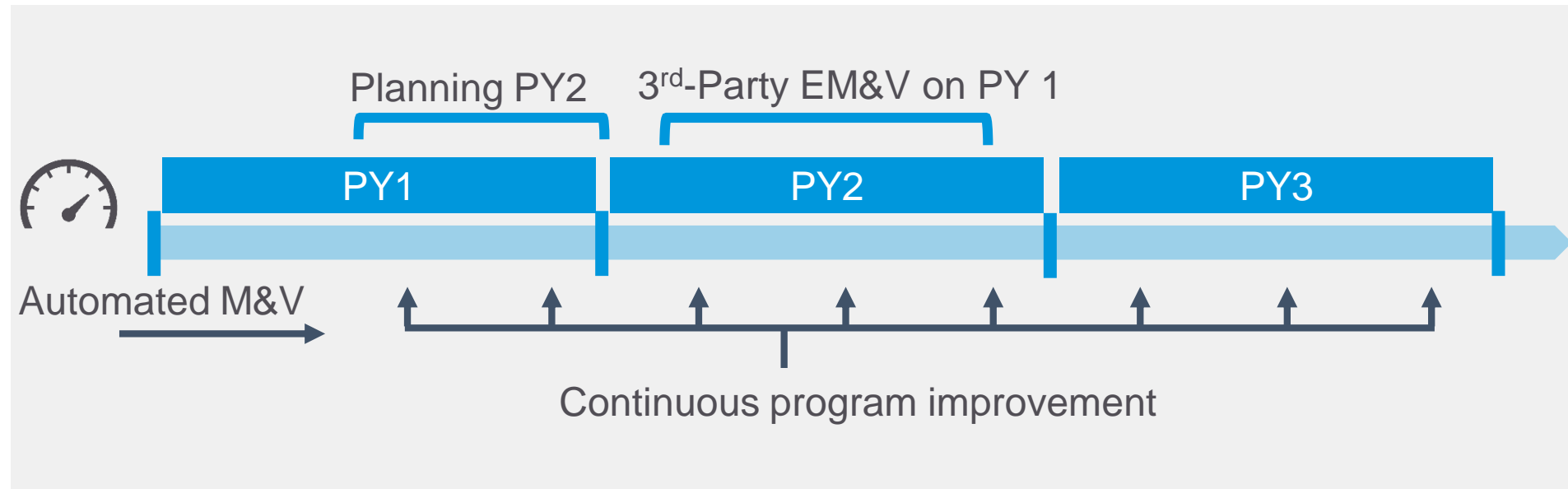
71% OF GOAL

Cumulative Savings by Project Month



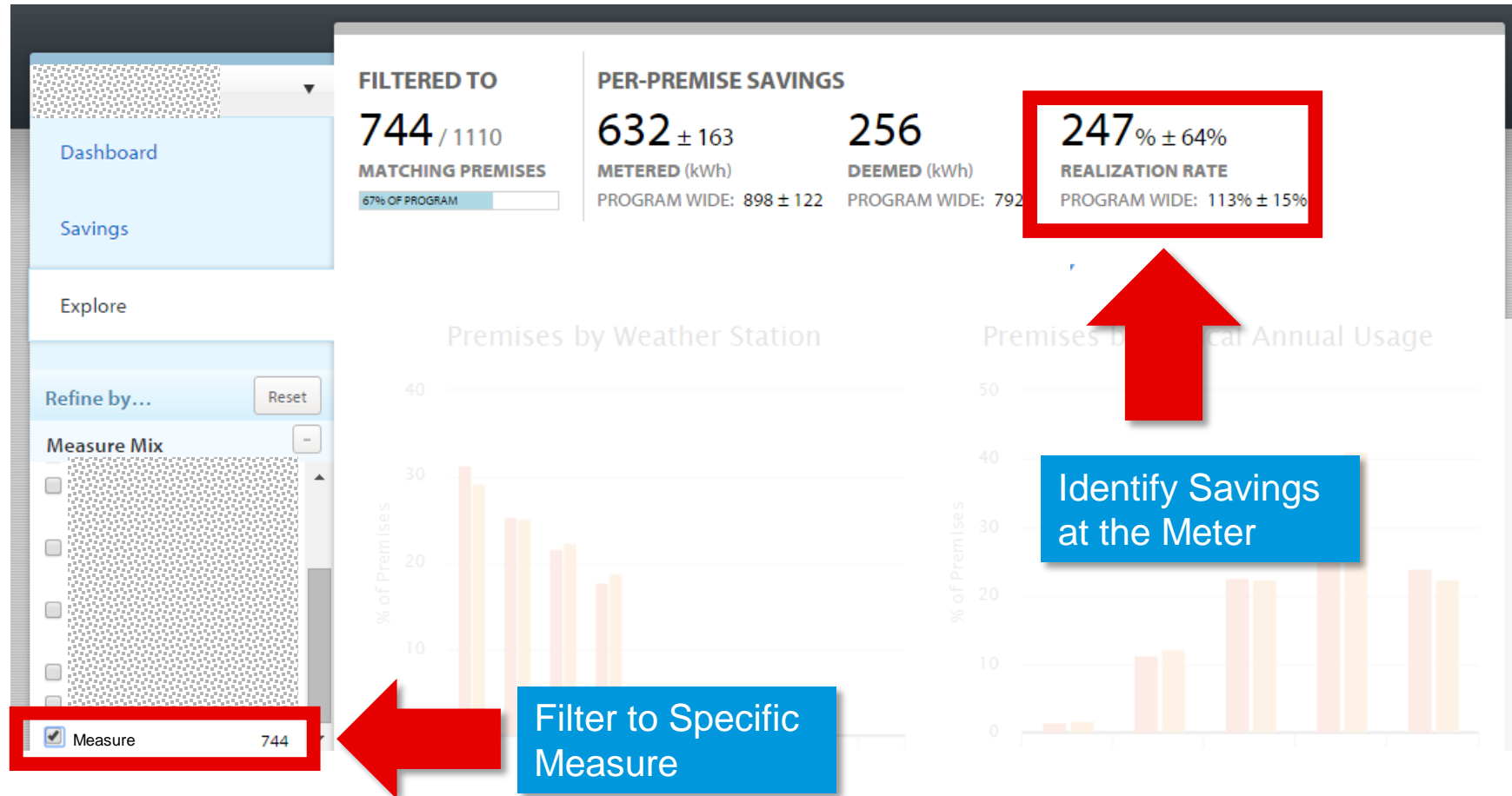
Integrated Evaluation Support

Supports targeted research and sampling



TRM Updates and Calibration

Collecting evidence to refine savings estimates



Contractor Performance and Feedback

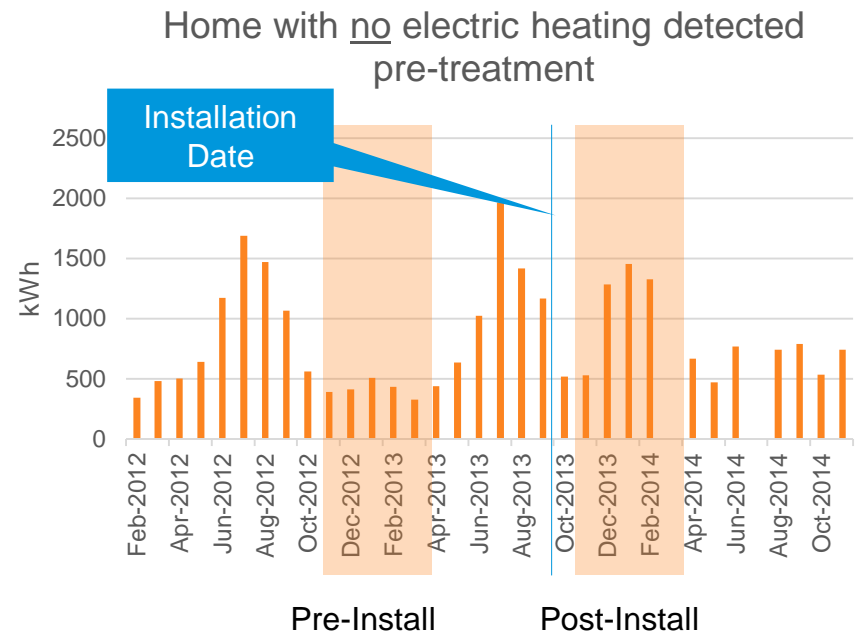
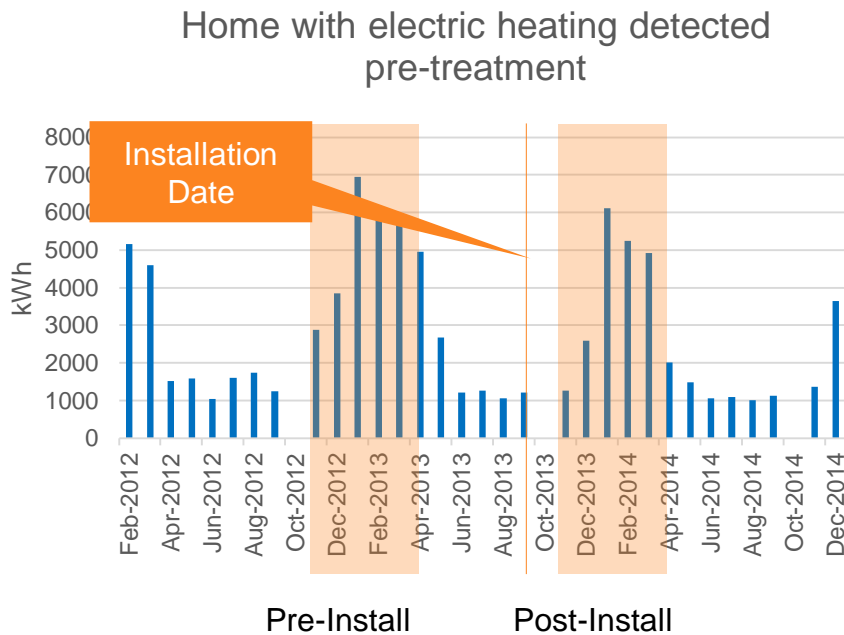
Comparing savings at the meter to expected savings reveals good, bad and ugly.



Intelligent QA/QC

13% of furnace replacements weren't replacing anything

Slipped through 3 levels of QA/QC before being identified by Quantify



Delivering Solutions Today

Program Optimization	✓	✓	✓	✓	✓	✓
Contractor Performance Management	✓	✓	✓	✓		
Enhanced QA/QC	✓	✓	✓	✓		
Targeted Marketing	✓	✓	✓			
Impact Evaluation and EM&V Support	✓	✓				
Contractor Ranking	✓					

Challenges and Barriers

Issues to be resolved for Automated M&V

1. Billing Analysis: Metered savings often vary from deemed savings, potential studies and goals
2. Calibration: Deemed savings need frequent updates based on local primary source results
3. Trust and Validation: Automated M&V tools need testing & validation to earn the trust of PA's and regulators

Thank You

ENERGYSAVVY

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