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Innovative Approaches to Inform Data Driven Decision Making

Existing Buildings Energy Efficiency Action Plan Workshop California Energy Commission - April 7, 2015

Market Challenges & Initiative Drivers

Market Challenges

- Energy modeling software tool availability and functionality
- Accuracy of energy savings predictions and impacts to customer decision-making
- Availability of usage data, but time consuming calibration

Initiative Drivers

- Participating contractors concerned about complexity of software, requested simpler tools that facilitate the job sales process
- CPUC directed IOUs to broaden allowable software under Energy Upgrade California (OP 61 D12-05-015)

CalTEST

Improves the accuracy of software while decreasing costs and allowing innovative sales processes

About CalTEST:

- Screening tool to determine a minimum level of accuracy of software based on actual CA homes
- Predictions are compared to weather normalized actual savings to determine realization rate and variance of the tool
- Software must pass average and site accuracy thresholds

Project Status:

- First CalTEST review was performed in Fall 2014, leading to the adoption of four new software models
- Established a nationally consistent output language format (CA HPXML)
- Open source tools developed, such as CZ 2010 weather files, to assist interested vendors to improve model accuracy

CalTRACK

Data-Driven Tracking & Feedback System

- Operationalizes the analysis of project performance data to provide ongoing feedback on gross savings, realization rates, and other performance metrics
- CalTRACK creates a cycle in which good results can be reported and rewarded
- Ongoing measurement and verification enables improved estimation of savings to aid regulated utilities and private market financiers to invest in energy efficiency

Data collection and exchange



Data cleaning and standardization



Data analysis of energy savings & realization rates

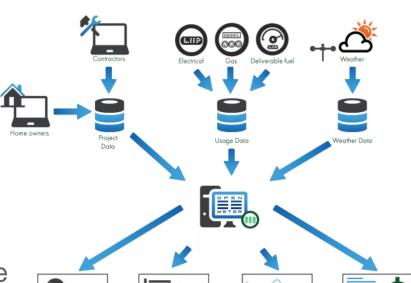
Combined Benefits and Opportunities

Benefits:

- Reduced modeling time, improved sales tools and better customer experience
- Software more accurately predicts savings
- Ability to track and provide contractor performance results

Opportunities:

- Opens the door for innovative incentive models
- More timely measurement to allow for data-driven improvements
- Better environment for private capital and industry investment



Industry

Feedback

Portfolio

Analysis

Data and Feedback Visualization

Actuarial

Data

Resource

Planning