

Home Performance with ENERGY STAR

2017 ACEEE/CEE National Symposium on Market Transformation



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It's our 15th anniversary!

Home Performance with ENERGY STAR Update



- 43 Sponsors and 4 Aggregator Pilots
- ***Over 600,000 completed projects*** under the HPwES banner to date through over 1,500 active contractors
- Released the Home Rx: The Health Benefits of Home Performance on www.energystar.gov/hhp
- ***Launched the Refreshed HPwES Website and new marketing material!***
- ***Had a successful HPwES Partner meeting at HPC in March***

New Drivers



Confident
Energy Savings



Finance



Insurance



Real Estate



Health & Safety

New Drivers Broken Down

New methods to calculate energy savings could facilitate development of energy savings risk profiles based on different project types and different delivery mechanisms.



Confident Energy Savings



Finance

Financing offered at the point of sale helps contractors close more projects. Projects utilizing financing are typically larger and usually include more energy saving measures than non-financed jobs.



Insurance

Home performance projects can result in more durable and resilient structures which may result in lower risk (and cost) related to moisture damage and seismic activity.

New Drivers Broken Down



Real Estate

With the support of DOE's Home Energy Score, valuation of home performance in energy efficiency is being recognized in real estate transactions. Can help sell homes faster and/or reduce time on the market.



Health & Safety

Health can be used as a driver to generate projects leads by working with the healthcare sector to recommend home performance services to higher risk populations such as those with respiratory illnesses.

Expanded Delivery

Leveraging the Brand for Portfolio Expansion



Incremental Upgrades



Multi-Family Programs



Empowering you to make smart energy choices



Low & Moderate Income



Empowering you to make smart energy choices



Renewable Programs & Energy Efficiency



Targeted Health Improvements



Innovation in Incentives and Measurement

Using Better Data Better



Remote Audits

Remote
Quality
Assurance

Innovation in Incentives and Measurement

Remote Audits

- Building America working with National Grid, Eversource, and Fraunhofer USA to test connected thermostats' ability to identify opportunities for improvements without relying solely on a field assessment.

Remote Quality Assurance

- EnHabit and FSL working with contractors' project data and energy savings information to better understand project performance and identification of defects.

Team and Partners	Topic Area
<p style="text-align: center;">Fraunhofer USA, Inc.</p> <p>w/ Eversource, National Grid, Holyoke Gas & Electric</p>	<p style="text-align: center;">Performance Measurement (2016)</p>

Develop a highly scalable tool that automatically and remotely analyzes communicating thermostat (CT) and interval meter data to identify household-specific retrofit opportunities to reduce heating energy consumption, quantify expected retrofit energy savings, and validate post-retrofit energy performance.



Success Metrics: Develop & validate approach that correctly identifies households with the target retrofit opportunities with 1) at least 75% classification accuracy and 2) +/-25% accuracy in predicting retrofit energy savings, to significantly increase the uptake of the target retrofit measures while reducing program recruitment costs per retrofit project. Success metrics include doubling the rate of onsite energy audits in partner utility programs for the target households identified by the tool.

Google: “Building America Research Teams”

Innovation in Incentives and Measurement

Using Better Data Better

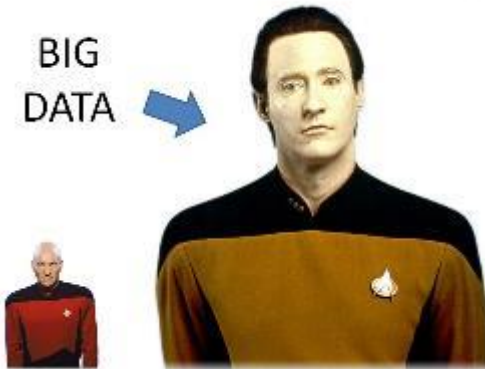
Pay for Performance

- CA (PGE), Maryland, NY, New Hampshire, Connecticut looking at consistent calculation methods to measure energy savings using comparisons between baseline energy consumption and post-project energy consumption
- Can set up asset classes to distinguish between categories of projects (i.e. savings from HPwES vs HVAC rebate program)
- Organizations in these states are identifying methods that will enable purchase of energy from energy efficiency projects using a variety of incentive schemes

M&V 2.0

- Long Island PSEG, APS, and are using energy savings data to better understand the performance of their contractors and their installations as well as the delivery structure of the program in which they work.

BIG
DATA



For more information



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