Home Energy Information Accelerator

Partner Meeting
RESO Fall Conference
Austin, Texas

October 27, 2015
Objectives

- Common understanding of DOE Home Energy Information Accelerator
- Prelim insights on cross-industry connections
Agenda

- Welcome
  - Jeremy Crawford (RESO)/Joan Glickman (DOE)

- Home Energy Info Accelerator Overview
  - Joan Glickman (DOE)

- What’s the Data that Brings Us Together?
  - Laura Stukel (Elevate Energy)

- Barrier Brainstorm – Access to the Data
  - Laura Stukel (Elevate Energy)

- Moving Forward
  - Joan Glickman (DOE)
Home Energy Info Accelerator Overview

Home Energy Information Accelerator:
Simplify the process for consumers and real estate professionals to incorporate home energy information

What is the work to be done?
- Expand the pipeline of efficient homes!
- Use home energy information in new and exciting ways

Foundations for Success
- Pilot demonstrations
- Share best ideas
- Recognize success
Home Energy Info Accelerator Overview

- National & Local Collaboration Drives Innovation -

National

- Working Groups
- Standards & Tools

Local – 5 markets

- Pipeline Growth Strategies
- Technology Pilots
- Training Strategies

Best practices & Recognition Metrics
Home Energy Info Accelerator Overview

- 5 Local Pilot Locations -

RMLS
IRES
MRED
MRIS
Breakthroughs So Far

National

- RESO DD/BEDES mapping
- RESO Silver Certification (1/1/2018)
- CMLS 3 Year Vision
- Adding Homes.com feeds
- Home Energy Upgrade Accelerator (HPXML code at PlugFest)

Local

- Technology visions underway
- Working on strategies for “growing the pipeline”
- Pilots to launch Summer 2016
Discussion - What’s the Data that Brings Us Together?

- Definitions and usage not always clear and consistent -

- certificate
- score
- verification
- certification
- rating
- disclosure
- label
Discussion - What’s the Data that Brings Us Together?

- Starting Point: How is Efficiency Data Defined with MLS Fields?
**RESO DD - “Green Verification” Fields Combine to Make:**

<table>
<thead>
<tr>
<th>Verifications without a rating</th>
<th>Verifications with descriptive rating</th>
<th>Verifications with a numeric rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labels</td>
<td>Certifications Rating</td>
<td>Scores Rating</td>
</tr>
<tr>
<td>Green Verification Program</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Green Verification Body</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Green Verification Year</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Green Verification Rating</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Green Verification Metric</td>
<td>• Energy Star Certified New Home</td>
<td>• LEED for Homes</td>
</tr>
<tr>
<td></td>
<td>• Home Performance w/ Energy Star</td>
<td>• National Green Building Standard ICC-700</td>
</tr>
<tr>
<td></td>
<td>• Zero Energy Ready Home</td>
<td>• HERS Index Score, Home Energy Score</td>
</tr>
</tbody>
</table>
RESO DD does not currently address unverified data:

<table>
<thead>
<tr>
<th>Utility Data</th>
<th>Automated Energy Models (AEMs)</th>
</tr>
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<tbody>
<tr>
<td>Actual usage data (behavior may vary)</td>
<td>Algorithms on public data (size, climate, etc.) to estimate utility usage</td>
</tr>
<tr>
<td>RESO could adopt Green Button standard fields</td>
<td>Start-ups emerging e.g., DwellAware, EnerScore, MyHomeEQ, MyUtilityScore, Savenia Home</td>
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### Key Terms

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<td>Efficiency of the building and the systems inside it</td>
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What’s the Data that Brings Us Together?

- Data outputs related to federal programs -

- **EPA**
  - Energy Star *(HERS connection)*
  - Water Sense
  - IndoorAir Plus

- **DOE**
  - Zero Energy Ready Home
  - Home Performance with Energy Star
  - Home Energy Score
The Home Energy Score is a national rating system developed by the U.S. Department of Energy. The Score reflects the energy efficiency of a home based on the home’s structure and heating, cooling, and hot water systems. The Home Facts provide details about the current structure and systems. Recommendations show how to improve the energy efficiency of the home to achieve a higher score and save money.
Preliminary Activity - Info Exchange Models Working Group

- Common Vocab?
- Pros and Cons Feedback
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Preliminary Activity - Data Access Working Group

- What is helping?
- What is holding us back?
Preliminary Activity - Data Access Working Group

- What is helping?
- What is holding us back?

- Technical
  Process / Skills / Technology

- Structural
  Governance / Rules / Laws / Decision-Making / Power / Authority

- Cultural
  Emotions / Values / Beliefs / Stakeholders / Leadership
Wrap Up & Moving Forward
Thank you!