Why HPXML is Your New BFF

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Introductions

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Agenda

1	A Case for Standards
2	HPXML Primer
3	Case Study: LEAP-Virginia
4	Industry Leadership: NHPC

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Why do we need standards?

Challenges:
- Lots of languages
- Lots of translators
- Complex topics
- Vested interests

Requires:
- Bureaucracy
- Administrative overhead

Results:
- Inefficiencies
- Misunderstandings

Why Building Performance Needs Standards

Overhead	Time-to-Rebate	Opaque Data
Duplicative data entry	QA/QC takes too long	Project and rebate status
Error-prone	Accountability not always clear	Who did what, when?
Hunting for data in multiple places	Confusion for customer	Squishy performance metrics

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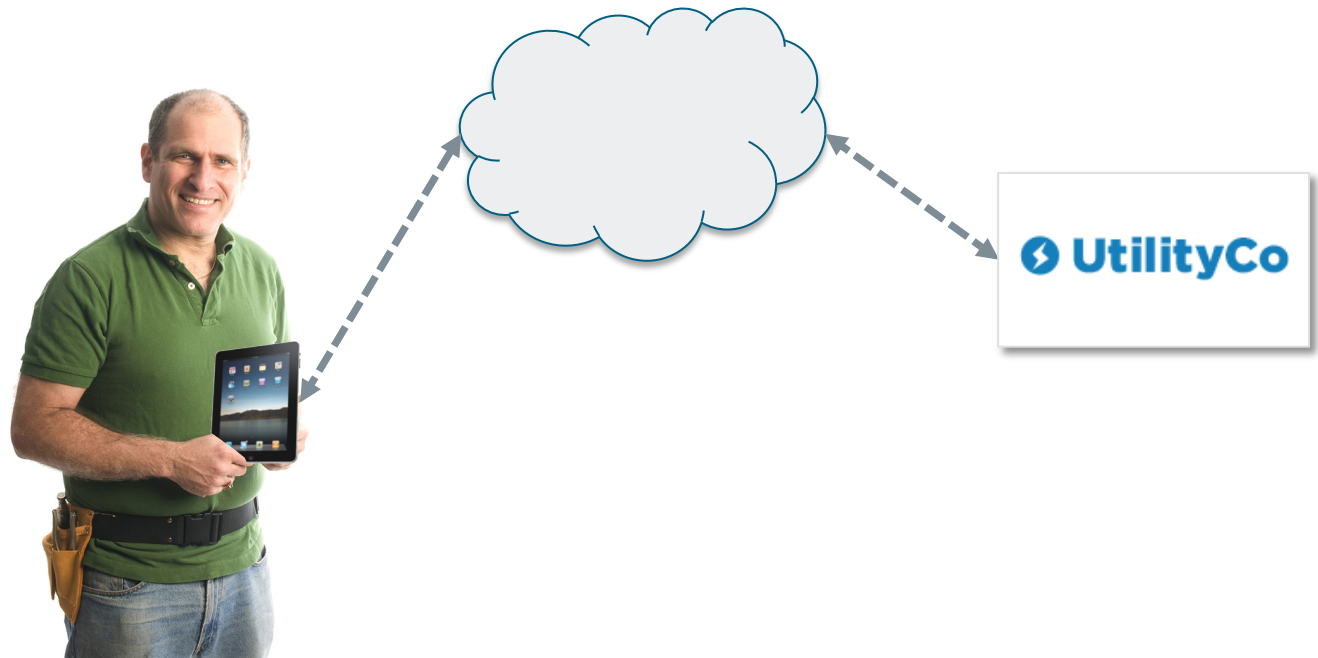
WTF is HPXML?

Home **P**erformance E**X**tensible **M**arkup **L**anguage

Standardizes:

- Data collected during in-home audit
- How the data is transmitted to other stakeholders

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HPXML Benefits

Programs

- Out-of-the-box integration

- Lowers cost, reduces risk of painful integration

- Improves trade ally experience

Contractors

- "One and done" data entry

- Reduces contractor time and expense

- Makes programs more business-friendly

Audit Vendors

- Avoids expensive, one-off integrations

- Reduce adoption risk

- One-to-many program compatibility

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Making it Real

EnergySavvy is working with HPXML pioneers

Market Need

Advance quality, adoption, and support

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Home Performance (HP) XML
What is it?

- BPI-2200 – Data dictionary of 800+ elements describing all aspects of home performance projects (e.g., energy audit, measures installed, energy savings, etc.)

- BPI-2100 or HPXML – Extensible mark-up language (XML) standard for transferring data elements defined in BPI-2200

Home Performance (HP) XML
What is it?

- Created by collaboration of 80+ stakeholders (BPI-WG-5) over working 3 years

    - Contractors, state and federal governmental agencies, utilities, program administrators, contractors, software developers, nonprofit organizations

- Aligned with DOE data standards

- *BPI-2100 and 2200 approved as BPI Standards in July 2013*

Why use the BPI data standards?

- **Reduce transactional costs**
- Clearer communication
- Reduce data entry
- More software options
- Streamlined customer approval process
- Long-term research and analysis
- EM&V

Next Steps

- Standard data sets for specific use cases

- Outreach and education

- Recruitment of new programs to implement

- Continued alignment with DOE (BEDES)

- Detailed HVAC and finance data elements

- Alignment with other software developers

More Information

- Visit www.nhpci.org for more information

- Standards available for download at:
    - http://www.bpi.org/standards_approved.aspx

    - https://hpxml.nrel.gov/wiki/Download