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NHPC is a national non-profit stakeholder-driven organization that develops solutions to challenges faced by the home performance / whole house energy efficiency industry

CUTTING PROGRAM COSTS WITH DATA STANDARDS

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National Home Performance Program

NASEO September 15th, 2013

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 2200

HOME PERFORMANCE (HP) XML
What is it?

- 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's standards

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

PILOT PROGRAMS

- NYSERDA, LEAP and APS (all home performance programs)

- Standard data set developed among the three programs

- Many industry software developers (Energy Savvy, CSG EMH, Auditor, Optimizer, SnuggHome)

- NYSERDA now successfully transferring data; other programs close behind

THREE SCENARIOS

- Multiple software tools used in a program

- Multiple programs operating in a geographic area

- Off-the shelf solutions with standard data sets and transfer protocols

- Better research: more data, higher quality, more comparable

WHY USE THESE STANDARDS?

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

IS USING HPXML PAINLESS?

NO

But significant short- and long-term benefits

NEXT STEPS

- Standard data sets

- Outreach and education regarding the standards

- Recruitment of new programs for post-pilot efforts

- Continued alignment with DOE (BEDES)

- Detailed HVAC and finance data elements

- Alignment with other software developers (Writesoft, AHRI)

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

BONUS SLIDE: COST-EFFECTIVENESS TESTING

- Last year's project: best practices

- This year's project: review of test rationale and use

- More details forthcoming

BONUS SLIDE: SMART GRID AND ENERGY EFFICIENCY

- Research project: Intersection between Smart Grid and Energy Efficiency

- Conference: ADS, NASEO and NHPC

- October 15 and 16 in Washington

- Interested or doing work in this area? Please let us know

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Thank you!