

Fahe Residential Energy Summit 2012

Residential Rehab and Multifamily
Standards





HPwES Program Update

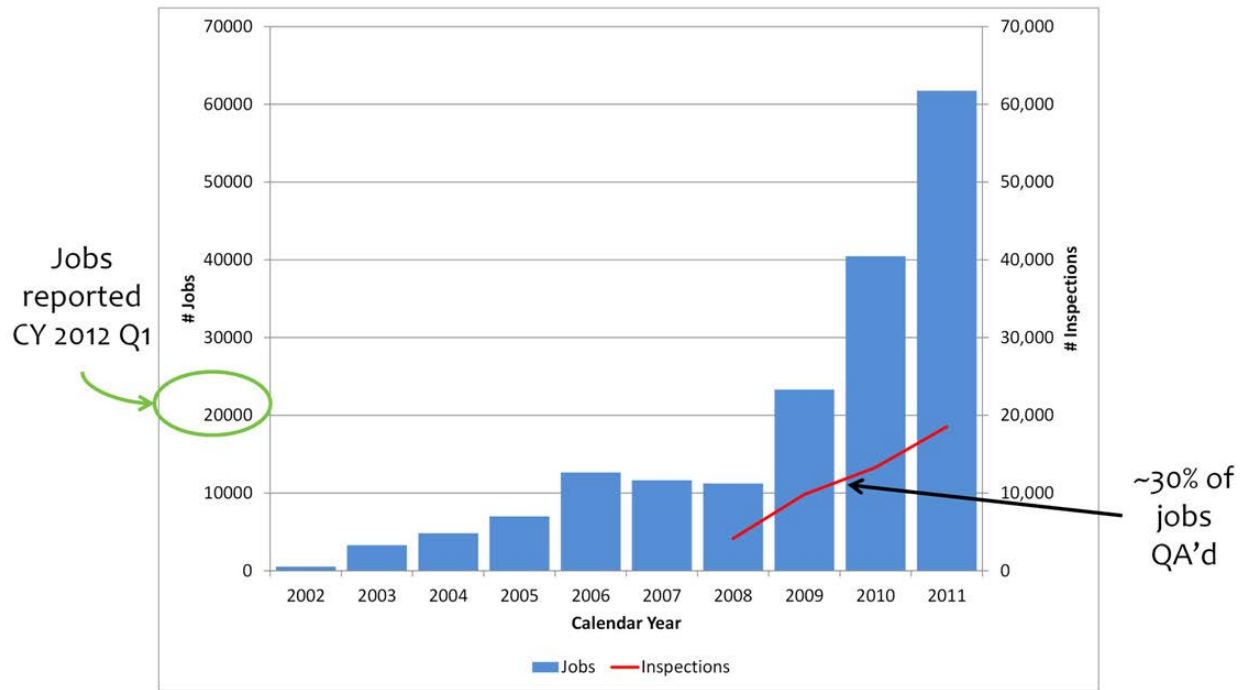
Home performance has been a
driver in the existing homes
market

HPwES Is Ten Years Old!

- We have a strong partnership base with over 50 Sponsors in 34 states, including DC – reaching
- The home performance industry is growing across the nation with over 1,800 participating contractors



Nearly 200,000 HPwES Improvements



KY HP_wES

- Retooling
- Federal funds gone
- Market share
- Contractor network
- Initial start up pain absorbed
- Need financing mechanisms

What are we talking about?

- Tom Carew insight
- All agencies have some sort of performance standards
- What Kind of standards moving forward?
- How do we set “green” and energy efficiency expectations?
- Financing perspective; How do we get points?



Reinventing the wheel!!???

- Plenty of good standards out there; Energy Star, LEED-H, NAHB Standard, Earth Craft, HUD EGC, Indoor Air Plus, Water Sense.
- Minimum energy performance set with HERS
- Rehab or retrofit specific complicates matters a bit
- Most programs written for new homes
- Retrofit application may prove challenging
- Local incentives, state incentives, utility programs
- Local codes, IECC 2009, IECC 2012, IGC
- Requirements of multiple funding sources

Score board; App Pts

- Lots of strategy to setting up points and to applying for points
- How might one align multiple funding sources for one project.
- Set priorities for program considering local conditions and concerns.



Get Help !!!

- Agencies should consult with local practitioners when establishing standards
- ES vs HERS vs LEED
- Project teams should consult with local practitioners when targeting compliance and particular points.
- Set priorities.
- Explore local options

New vs. Existing

- Energy Star (V3)
- NAHB Green Build Standard
- LEED-H

- NAHB for rehab
- ReGreen

Energy Star V3



Expanded Checklists

- First there was nothing (pre-2006)
- Then there was Thermal Bypass
- Now there is Thermal Enclosure
- Moisture Management
- HVAC (contractor and rater)
- Blower Door and Duct Blast still there
- HVAV and ventilation testing

Very Difficult for Renovation

- Thermal Bypass requirements
- Air Barrier
- Full Gut
- Spray Foam
- Many consider HERS score for renovations
- NSP and Energy Star requirements

NAHB Green Build Standard

- Released 2008
- 2000 homes recently reached
- Lower cost
- Less rigorous
- Stepping stone?
- Intended to be code ICC 700- 2008

Categories of Credits

- Lot & Site Development
- Resource Efficiency
- Energy Efficiency
- Water Efficiency
- Indoor Environmental Quality
- Homeowner Education

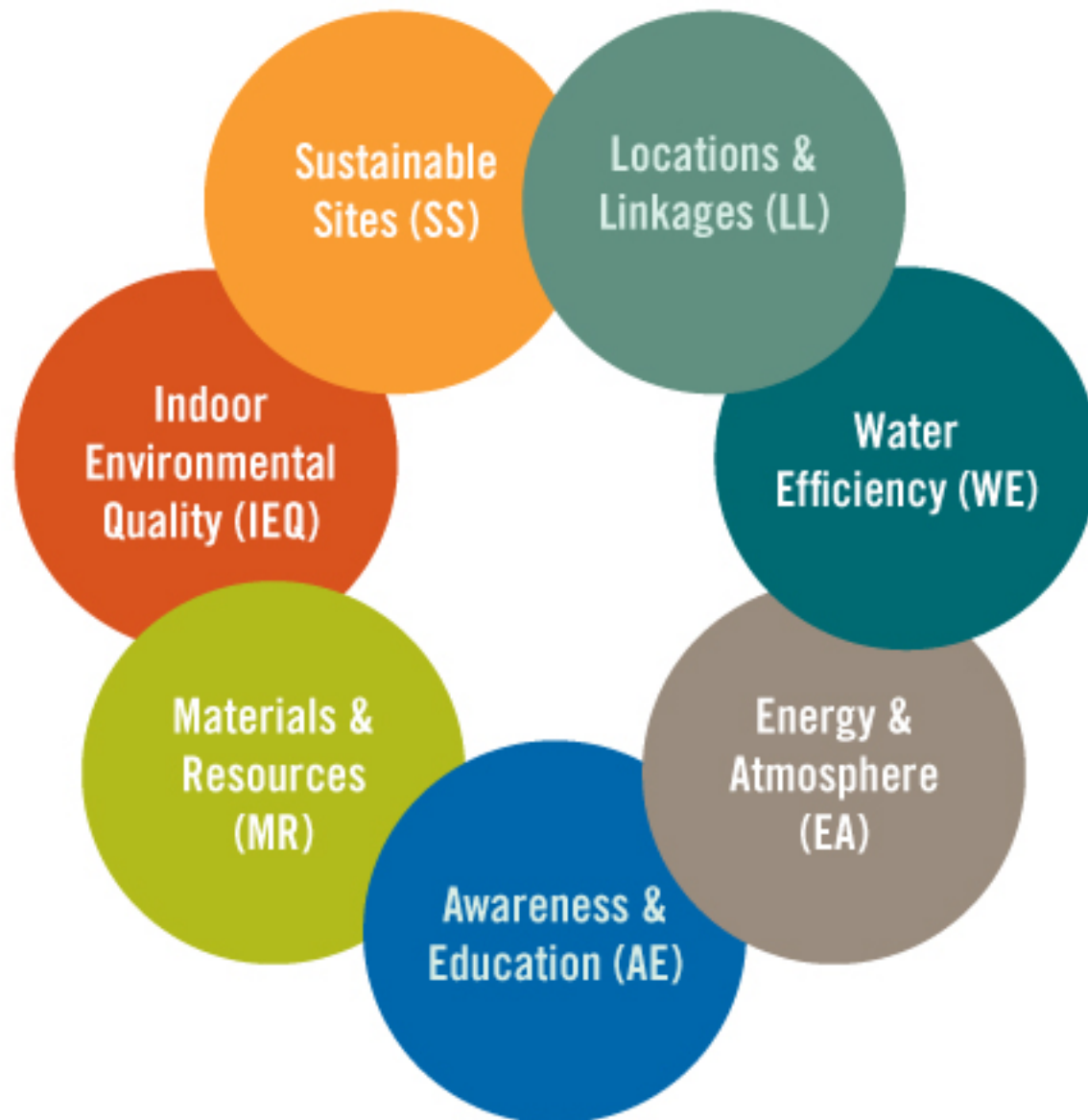
What's Included

- Additions to single-family homes that equal less than 75% of existing square footage
- Renovations of single-family or multifamily buildings
- Renovations plus additions to single-family homes
- Renovations of pre-1980 residential buildings
- Renovations that change the use of non-residential buildings into residential uses. *Building conversions can be certified using the Green Building Path but not the Green Remodel Path*
- Individual sections or phases of residential or mixed-use developments
- Entire residential or mixed-use land developments and subdivisions



LEED for Homes

Credit Categories



REGREEN: Residential Remodeling Program

www.regreenprogram.org

- Remodeling Guidelines
- Green Remodel Case Studies
- Green My Project Tool: Green Strategy Generator
- Additional resources
- Education



A screenshot of the REGREEN website homepage. The header includes the logo "REGREEN ASID & USGBC" and navigation links for "ABOUT", "RESOURCES", "CASE STUDIES", "PROJECTS", and "EDUCATION". The main content area is divided into several sections: "ABOUT US" with a "WHY REGREEN?" section, "LATEST ADDITIONS" featuring "TOOL TIPS" and "EXPERTS", "FEATURED" with a "MORE" section, and "PROJECTS" with sub-sections for "RENEWABLE WOODS", "GLASS COUNTERTOPS", and "LOW-E GLAZINGS". The footer includes a "LOCATION: HOME" link and a copyright notice for 2008 American Society of Interior Designers, Inc. and U.S. Green Building Council. Logos for ASID and USGBC are also present at the bottom.

Real Life

- Adaptive reuse/ gut rehab
- Energy Star
- Historic Credits
- Energy Performance
- Program updates, LEED vs ES
- Sampling

Resources

- www.usgbc.org
- www.energystar.gov
- www.regreenprogram.org
- www.nahbgreen.org
- www.kyhomeperformance.org
- www.dsire.org

Thank You

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