ENERGY STAR Qualified Homes
2011 Specifications
Impacts on Sponsor Programs
Where to Go From Here?

Affordable
Comfortable
Healthy
Durable

Control Air Flow
- Air Sealing
- Tight Ducts
- Insulation R-Value
- Low-E Windows

Control Thermal Flow
- Air Sealing
- Tight Ducts
- Insulation Alignment

Control Moisture Flow
- Air Sealing
- Tight Ducts
- Ventilation

Efficient Equipment
- Efficient HVAC

3rd Party Verification
- Inspect Features
- Test Infiltration
- Test Duct Leakage
- Thermal Bypass Chk
- Thermal Enclos. Chk

1996
V.1
- Low-E Windows

2006
V.2
- Insulation Installation
- Min. Thermal Bridging
- Efficient WH System
- Efficient Lgtg./Appl.

2011
V.3
- Water Man. Construction
- HVAC Quality Inst.
- HVAC Sys.
- QI Chk
- Water Man. System Chk

Affordable
Comfortable
Healthy
Durable
ENERGY STAR CONCEPT HOME SPEC

• ENERGY STAR 2011 Specifications
• EPA Indoor Air Plus
• Advanced Technologies:
  - Insulation Min. 50% > 2009 IECC
  - Air-Tightness Min. 50% < 2006 ENERGY STAR
  - Ducts Inside Conditioned Space
  - Advanced ‘Best in Class’ Windows
  - ‘Best in Class’ HVAC Equipment
  - ENERGY STAR Water Heating
PATH TO NO/LOW CARBON

- ENERGY STAR for Homes 2011 Draft Specs
- Advanced Technologies
- Advanced Design
- Occupant Behavior
- Renewable Power (Purchase or On-site)
- EPA Indoor airPlus
LOW/NO CARBON HOME BUSINESS CASE

Net-Zero Ready

~30% - 50% Less

- Square Feet with 100% Function
- Cooling/Heating Loads
- Framing
- Ducts
- Plumbing/Wiring
- HVAC Equipment
- Waste
- Construction Time

~70% Less Call-Backs
**ENERGY STAR Qualified Homes 2011 Specifications**

**Release Final**
- April
- New Label
- Field Guides
- Nationwide Training
- New QA Reqs.
- Appraisal, Mortgage, Insurance Letter

**Transition**
- Perf. or Prescriptive
- Air Barriers/Sealing
- Other Checklists
- Compl./Not Enforced
- Old Label Unless Comply

**Fully Enforced**
- Perf. or Prescriptive
- All Checklists Mandatory
- Only New Label

**ENERGY STAR Concept Home**

**Final Spec/Pilot**
- with New Label

**Fine Tuning**
- Virtual Tour Web Site

**Fine Tuning**
- Virtual Tour Web Site

**Timeline**
- Jan. 1, 2010
- Jan. 1, 2011
- Jan. 1, 2012
- Jan. 1, 2013
ENERGY STAR Qualified Homes V.3
EPA Implementation Issues

- **Training** [HERS Raters, Builders, Trades]
- **Quality Assurance** [HERS Raters, HVAC Contractors]
- **Partner Certification** [Raters, Builders]
- **Label Transition** [V 2, V 2.5, V 3, Concept Home]
- **States w/ Rigorous Codes** [CA, WA, OR, FL, MA, HA]
- **Transaction Process** [Appraisals, Lending, Insurance]
- **Evaluation** [Utility Billing Studies, Peak Demand]
- **Loss of Participants**
ENERGY STAR Qualified Homes V.3
Sponsor Implementation Issues

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HOW TO GET MORE INFORMATION

On the Web at:

http://www.energystar.gov/homes