

4<sup>th</sup> Annual ENERGY STAR for Homes Sponsor Meeting  
March 22-24, 2010



**ENERGY STAR Qualified Homes**  
**2011 Specifications**

**Impacts on Sponsor  
Programs**

# Where to Go From Here?



Air Sealing  
Tight Ducts

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

Air Sealing  
Tight Ducts

Efficient HVAC

Inspect Features  
Test Infiltration  
Test Duct Leakage



1996  
V.1

Air Barriers

Air Barriers  
Insulation Alignment

Air Barriers  
Right-Sizing

Efficient WH System  
Efficient Lgtg./Appl.

Thermal Bypass Chk



2006  
V.2

Pressure Balancing

Insulation Installation  
Min. Thermal Bridging

Ventilation  
Dehumid. in Hot/Humid

Water Man. Construction

HVAC Quality Inst.

Thermal Enclos. Chk  
HVAC Sys. QI Chk  
Water Man. System Chk



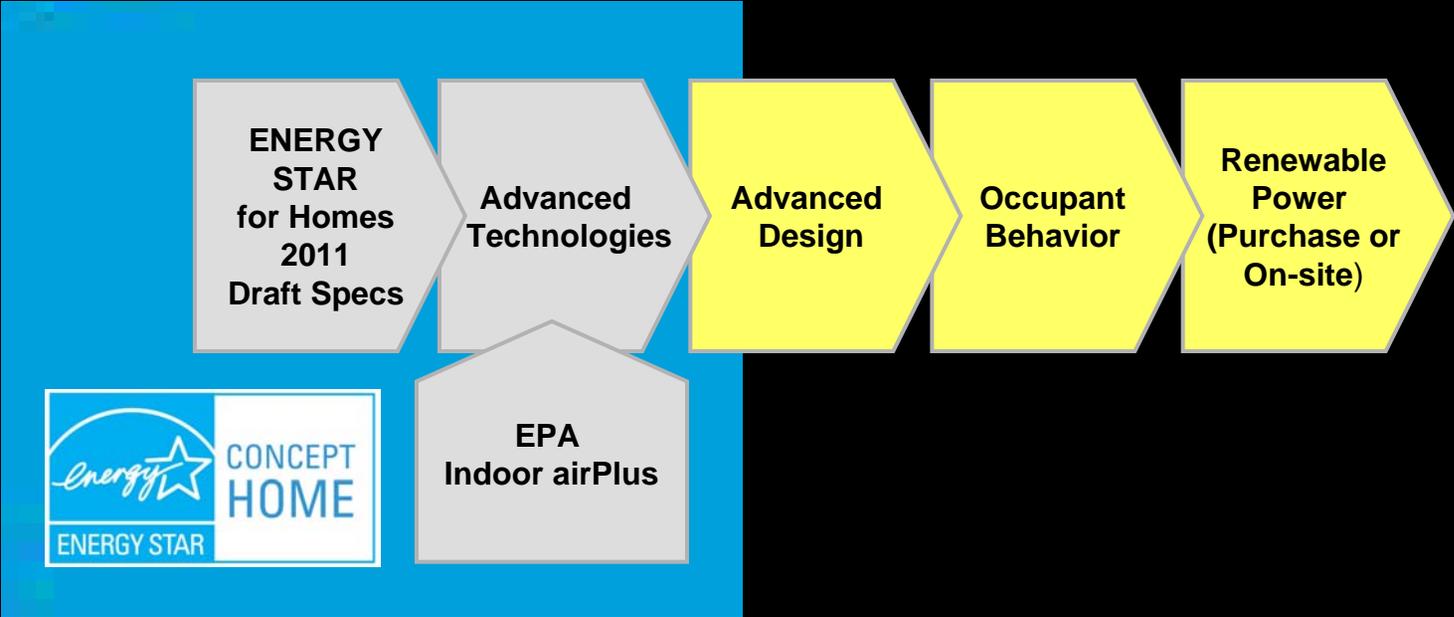
2011  
V.3

# 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



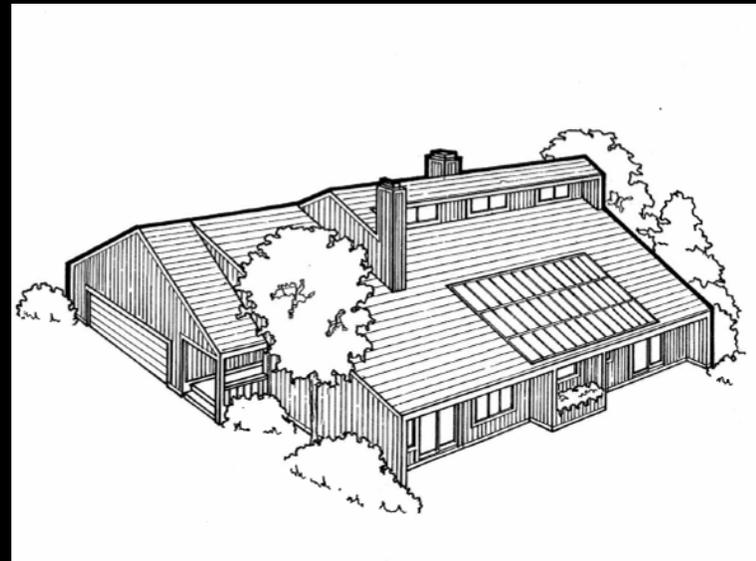
# LOW/NO CARBON HOME BUSINESS CASE



## 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**

# 2011 SPEC/CONCEPT HOME TIMELINE



## ENERGY STAR Qualified Homes 2011 Specifications

### Release Final

- April
- New Label
- Field Guides
- Nationwide Training
- New QA Reqts.
- 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

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



# HOW TO GET MORE INFORMATION



**On the Web at:**

<http://www.energystar.gov/homes>