

**RESNET**

*Residential Energy Services Network*

*Setting the STANDARD  
for QUALITY*

# **RESNET Update**

**DOE Building Energy Codes Conference  
Denver, Colorado**

**Steve Baden - RESNET  
[www.resnet.us](http://www.resnet.us)**

## **Need to Shift Thinking to Optimized Systems Engineering**

**Most Builders Rely on Compliance With Minimum  
Prescriptive Codes**

**This results in:**

- **Missing Integrated Solutions That Address System Interactions**

**Optimized System Strategies Will Result in:**

- **Higher Levels of Energy Efficiency**
- **Efficient Use of Resources**
- **Greater Durability**
- **Improved Comfort**
- **Greater Long Term Value to Consumer**

## Performance Method

- + Recognizes and Rewards Innovation
- + Gives Builder Greatest Flexibility to Incorporate Most Cost Effective Features That Makes Most Sense in the Local Housing Market
- + Construction Savings More Than Makes Up for Cost of Verification

## **Performance Method**

**Where Viable Option Builders Will Choose  
Performance**

**2004 ENERGY STAR Homes Verification (131,763 Homes)**

- **93% Performance Based (HERS)**
- **7% Prescriptive Based**

**Source: Environmental Protection Agency**

## Major Changes in 2006

- + **13 SEER Air Conditioner Standard**
- + **HERS Basis on Total Energy Use of Home**
- + **RESNET Standard Based on DOE RICC Proposal Embodied in 2004 IECC**
- + **New HERS Index**
- + **Insulation Installation Inspection Procedures**
- + **Federal Tax Credit for Homes 50% More Efficient than IECC**

# Rating Expanded Score

## Whole Energy Use of Home

- + Heating
- + Cooling
- + Water Heating
- + Appliances
- + On-Site Power Production

## **New HERS Index**

**Change Rating Score to “HERS Index”**

**0 = Net Zero Energy Home**

**100 = HERS Reference Home (2006 IECC)**

## **HERS Index**

### **Why?**

**Dynamic Changes in 2006 – No longer can compare scores**

**New Homes Scores Were Compressed in Old 80 Based Score**

**New Index More Intuitive – Consumers can readily understand**

# **Insulation Inspection Procedures**

## **Three Ratings of Quality of Insulation Installation**

**Can only receive lowest rating if rater does not inspect insulation installation**

# Effective Date of Changes

**July 1, 2006**

**Tracks with ENERGY STAR Changes**

## **Looking Around the Corner**

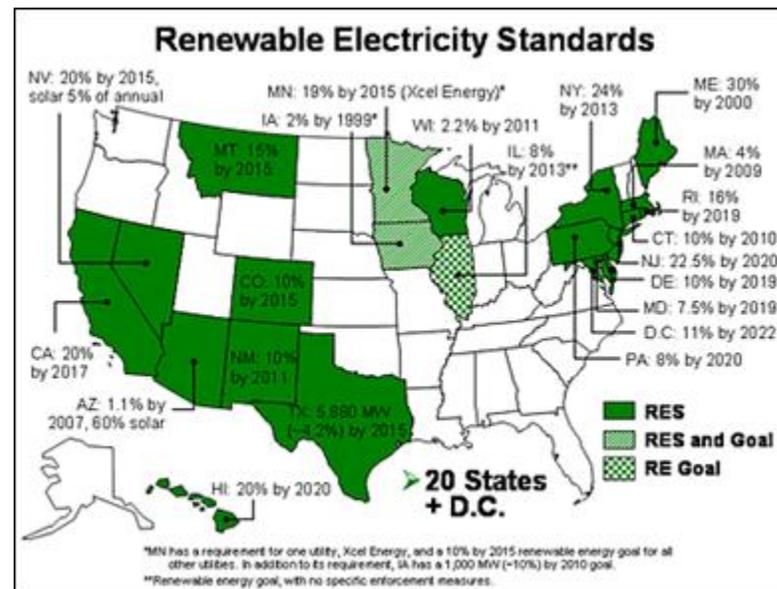
- + National Test Specifications for Software Programs to Calculate Performance Verification to the IECC**
- + White Tags**

# **RESNET IECC Software Specifications**

- + Auto-Generation of the Reference Home (IECC Performance Specifications)**
- + Loads Calculation**
- + RESNET HVAC Tests**
- + Duct Distribution System Efficiencies Tests**
- + Water Heating Efficiencies**

## White Tags

**Follow-up to Renewable Energy Certificates**  
**State Sets Production Targets to Meet and Credits Can Be Bought or Sold - \$900 Million Traded in 2005**



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## **White Tags**

### **States That Have Already Adopted:**

- + Connecticut**
- + Nevada**
- + Pennsylvania**

**Nine additional States Actively Investigating  
Setting Energy Efficiency Portfolio  
Requirements**

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## **White Tags**

### **Nevada**

**25% of Required Savings Must Come From the Residential Sector**

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# **2007 RESNET Building Performance Conference**

**February 19 – 21 – San Diego, CA**

**Comprehensive Review of Enhancements to  
ENERGY STAR & Rating Standards**

**Federal Tax Credits**

**[www.resnet.us/conference](http://www.resnet.us/conference)**