

Why Encourage Ratings As Codes Performance

“HERS Mapping”

2004 National Workshop on State Building
Energy Codes

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RESNET**

RESNET

Residential Energy Service Network

www.natresnet.org

RESNET's Mission

“Improve the energy efficiency of the nation’s housing stock and qualify more families for home ownership by expanding the national availability of mortgage finance options and home energy ratings.”

RESNET's Key Services

- **Maintain National Home Energy Rating Standards**
- **Accredit Rating Providers, Rating Software Programs, & Rater Training Providers**
- **Work with the Mortgage Industry in Developing and Promoting New Energy Mortgage Products**

Home Energy Ratings

- **Are Voluntary**
- **Accredited Rating Programs in all 50 States**
- **Over 3,000 Raters Certified Across Nation**

National Home Energy Rating Standards

- Rating Program Administration
- Technical Guidelines
- Rater Training and Certification

Home Energy Rating System National Oversight Structure



**Rater Training
and Certification**

Program Administration

Technical Standards

**Accredited Home Energy
Rating System Provider**

- * certifies raters
- * provides software
- * provides quality control / oversight of raters

Certified Rater

(Independent Contractor or Employee)

Tax Credits

Mortgages

Utility Program /
Code Compliance

Home Owner

What Are Ratings Used For?

- **Energy Efficient Mortgages**
- **ENERGY STAR Home labeling**
- **Performance option for energy code compliance in 11 states**
- **State utility public benefit funded residential energy efficiency programs in 9 states**

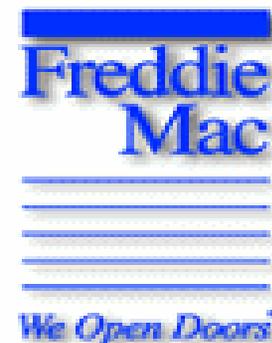
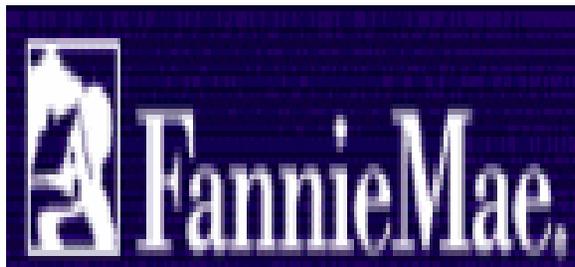
Energy Mortgages

Increases the Home Buying Power of Consumers Using Energy Savings

Energy Efficient Mortgage

- **Uses Energy Savings of Efficient Home to Increase the Consumer's Buying Power**
- **Capitalizes Energy Savings in the Appraisal**
- **Finances 100% of Energy Upgrades With No Additional Down Payment**

Energy Mortgages Offered By Secondary Mortgage Market



RESNET's Policy on Energy Codes

“RESNET supports the adoption and effective implementation of energy codes because they provide a critical function by establishing a ‘floor level’ of energy efficiency which homes can not be built below.

RESNET supports a robust performance path to the code that results in higher energy performance of homes.”

Why Encourage Ratings In Codes Infrastructure

- **Will Make Energy Efficient Homes More Affordable**
- **Will Improve Energy Code Performance**
- **Will Improve Builder Performance**
- **Will Link Code Performance to Market Demand**

Why Encourage Ratings In Codes Infrastructure

Will Make Energy Efficient Homes More Affordable

- Home Energy Ratings and Energy Efficient Mortgages Add Value to Home and Increases Buying Power of Consumer
- Ability to Finance 100% of Energy Improvements Without Added Down Payment
- Will Link Code Performance to Market Demand

Why Encourage Ratings In Codes Infrastructure

Will Improve Energy Code Performance

- **Ratings Based on National Standards Recognized by Federal Government and Mortgage Industry – *Performance Quality Assurance***
- **“Home energy ratings tied with energy mortgages can help state and local governments increase compliance with building energy codes” – National Council of State Legislatures**

Why Encourage Ratings In Codes Infrastructure

11 States Incorporate Ratings Into Code

Alaska

Arkansas

California

Florida

Iowa

Kansas

Massachusetts

Ohio

New York

Texas

Vermont

Why Encourage Ratings In Codes Infrastructure

Will Improve Builder Performance

- **Leads the Builder from Minimum Compliance to Maximum Performance – Rewards Builders for Improving Performance**
- **Incorporates Diagnostic Testing of Envelope and Ducts**
- **Work Inspected on Whole House Basis by Building Performance Professional**

Why Encourage Ratings In Codes Infrastructure

Will Link Code Performance to Market Demand

- Ratings Used by EPA for Labeling of ENERGY STAR Homes
- ENERGY STAR Has Demonstrated That The Market Will Recognize Higher Building Performance

Alignment of Rating Standards With IECC

Will Ease Path of Ratings as Energy Code Compliance Option

- **Amendments to National Home Energy Rating Standards**
- **Will Go Into Effect on January 1, 2004**

Alignment of Rating Standards With IECC

Amendments to National Home Energy Rating Standards

- **Align Rating Method to RICC Proposal Adopted for the IECC**
- **New Insulation Inspection Procedures**
- **More Stringent Rating Quality Assurance Procedures**
- **Amendments Posted at www.natresnet.org/amend**

Alignment of Rating Standards With IECC

Aligns the Technical Basis for:

- **IECC**
- **Ratings**
- **ENERGY STAR**
- **Building America**
- **Proposed Federal Tax Credits**

Verification and Certification of Software for IECC

DOE – NREL - PNNL - RESNET Effort

Goals:

- **Ensure National Consistency of Software Tools to Calculate Compliance to the IECC**
- **Make it Easier for Code Officials to Accept Code Compliance Software Tools**
- **Increase Credibility for Performance Method of IECC**

Verification and Certification of Software for IECC

Software Verification Test Suite

- **Auto-generation of IECC Reference Home**
- **HERS BESTEST Developed by NREL**
- **HVAC Tests (furnaces, air conditioners & heat pumps)**
- **Duct Distribution Efficiency Test**

2005 RESNET Conference

“Prospering In Changing Times”



February 28 – March 1, 2005
San Antonio, Texas