Making Energy Star, Green Built Homes Count How to get the Appraisal you need

Josh Trent, Director Communities & Design Director

Frontier Housing, Inc 5445 Flemingsburg Road, Morehead, KY 40351 606.784.2131

josh@frontierhousing.org

Larry Disney, Executive Director

Kentucky Real Estate Appraisers Board 135 W. Irvine Street, Suite 301 Richmond, Kentucky 40475 Phone 859-623-1658 larry.disney@ky.gov

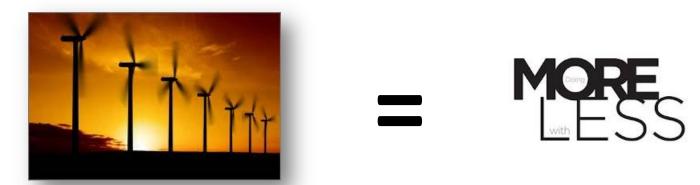


5445 Flemingsburg Road Morehead, KY 40351 (606)784-2131 www.frontierhousing.org



What is Energy Efficiency?

The process of doing more with less!



What is Energy Star?

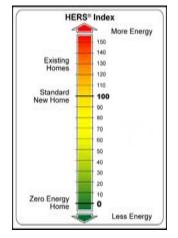
Energy Star is a United States government program created in 1992 by the US Environmental Protection Agency in an attempt to reduce energy consumption and greenhouse gas emission by power plants. What began originally as a voluntary labeling program has grown in to one of the largest efforts worldwide to promote energy efficient consumer products



Energy Efficient Terminology

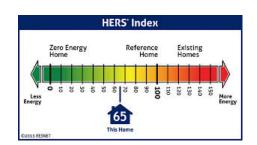
HERS Index - Industry standard for measuring a home's energy efficiency

Source: (www.resnet.us)



<u>HERS Rating</u> - Is a comparative analysis of how energy efficient your home is as compared to other similar homes

Source: (www.resnet.us)





Energy Star Certification Paths (2) Paths to certify a home to earn Energy Star

Prescriptive Path - is based on a predefined package of improvements

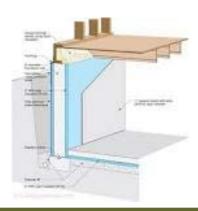
Performance Path - is based on a customized package of upgrades.

The National Program Requirements define the core energy efficiency specifications for both the Prescriptive and Performance Paths Source: (www.energystar.gov)

Best Practices & What Must be Considered for Energy Efficiency

What has to be Considered:

- ✓ Climate Zone
- √ Foundation
- ✓ Envelope Construction (Building Practices, Air Sealing, Windows, Doors & Insulation)
- ✓ Conditioned Space (Foundation, Walls & Roof)
- ✓ Air Sealing
- ✓ Heating / Cooling Equipment
- ✓ Thermostat & Duct Work
- ✓ Water Heater
- ✓ Lighting & Appliances
- ✓ Inspection & Verification







Why should a builder become and Energy Star Partner?

- ✓ Use energy efficiency to enhance your credibility
- ✓ Increase visibility
- √ Gain access to new customers
- ✓ Utilize a proven strategy
- ✓ Earn recognition for your success in improving the customers energy efficiency
- ✓ Environmental Impact
- ✓ Good Building Practice
- ✓ Understand Building Science

How Much does Energy Efficient Construction Cost?

Energy efficient construction cost vary depending on location, availability of material, skilled labor and professional raters.

Typical Code Built House 2012 HERS Index 100

3BR, 2 Bath, 1380 Gross Sq. Feet, Morehead, KY

Process

Foundation

Framing

Insulation

Air Sealing

Electrical

HVAC

Plumbing

Drywall

Interior Finish

(I.E: Paint, Cabinets, Floor Coverings)

Exterior Finish

(I.E.: Roofing, Siding, Conc. Etc.)

Misc.

Total Construction Cost \$103,500.00



Energy Star V 3.0 Energy Star House Built in 2012 HERS Index 44

3BR, 2 Bath, 1380 Gross Sq. Feet, Morehead, KY

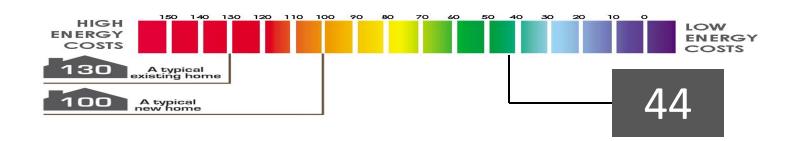
Process		Additional Cost
Foundation		\$1,875.00
Framing		\$495.00
Insulation		\$2,170.00
Air Sealing		\$651.00
Electrical		\$0.00
HVAC		\$1,870.00
Plumbing		\$450.00
Drywall		\$350.00
Interior Finish		\$0.00
(I.E: Paint, Cabinets, Floor Coverings)		
Exterior Finish		\$0.00
(I.E.: Roofing, Siding, Conc. Etc.)		
Misc		\$0.00
Total Construction Cost	\$103,500.00	
Additional Energy Star Cost	\$7,861.00	
Total Cost	\$111,361.00	



The itemized cost are associated with Frontier Housing, Inc, based on our labor and material rates. All rates for labor and material are at variance.

The HERS Rating...

<u>HERS Rating</u> - Is a comparative analysis of how energy efficient your home is as compared to other similar homes Source: (www.resnet.us)





This home is 56% more energy efficient than a typical new home &

more energy efficient than a typical existing home.

The Value of Energy Efficient Construction

New Home Energy Efficient Mortgage Report

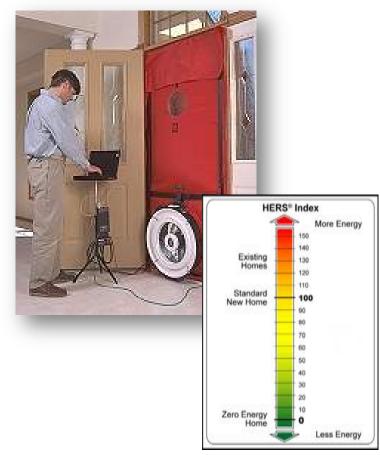
Use this Energy Report to show the Energy Savings (for underwriting purposes in accordance with the requirements of the Energy Efficient Mortgage product) to determine the Energy Savings related to the property. This report is to be completed by the Energy Rater and submitted to the Lender. This report must be retained by the Lender in the Loan File

Who generates this report?

The HERS Rater

What is this report based on?

The performance of the Energy Efficient property HERS Score



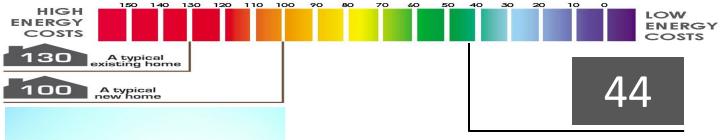
New Home Energy Efficient Mortgage Report

New Home Energy Efficient Mortgage Report

Use this Energy Report to show the Energy Savings (for underwriting purposes in accordance with the requirements of the Energy Efficient Mortgage product) to determine the Energy Savings related to the property. This Report is to be completed by the Energy Rater and submitted to the Lender. This Report must be retained by the Lender in the Loan File.		
Borrower Name(s):	Monthly Energy Savings	
Property Address:		
New Home Energy Savings		
Monthly Energy Savings The Monthly Energy Savings Value is the average monthly energy savings of the design home over the 2006 International Energy Conservation Code reference home. REM/Rate calculates the annual savings of the design home for heating, cooling, water heating and base loads.	Energy Savings over a lifetime of 23 years	
New Homes Energy Value Energy Savings Value 13091		
The Energy Savings Value is the Net Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code reference home calculated over a lifetime of 23 years and discount rate of 4.77. Discount Rate International Energy Conservation Code Years and Code Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code Years and Code Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code Years and Code Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code Years and Code Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code Years and Code Present Value of the annual energy savings of the design home over the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Conservation Code Years and Code Present Value of the 2006 International Energy Code Present Value Office Value Office Value Office Value Office Value Office Value Office Value	'ear Used	
Rater's/Provider's Signature Date		
REM/Rate - Residential Energy Analysis and Rating Software v14.3 This information does not constitute any warranty of energy cost or savings. © 1995-2013 Architectural Energy Corporation, Boulder, Colorado.		

The HERS Rating...

<u>HERS Rating</u> - Is a comparative analysis of how energy efficient your home is as compared to other similar homes Source: (www.resnet.us)





A Typical New Home

Elec. Per Month (Avg.) \$ 148.53 Not Energy Star No HERS

Elec. Per Month (Avg.) \$ 66.94

Energy Star Qualified HERS Score: 44

Savings: \$81.59/month



HERS Rated Energy Star Certified Home HERS 44

Making Energy Star, Green Built Homes Count

How to get the Appraisal you need



Frontier Housing, Inc 5445 Flemingsburg Road, Morehead, KY 40351 606.784.2131

josh@frontierhousing.org

Larry Disney, Executive Director

Kentucky Real Estate Appraisers Board 135 W. Irvine Street, Suite 301 Richmond, Kentucky 40475 Phone 859-623-1658 larry.disney@ky.gov

Questions?







5445 Flemingsburg Road Morehead, KY 40351 (606)784-2131 www.frontierhousing.org



NeighborWorks® HomeOwnership Center