

Home Energy Labeling Stakeholder Meeting

June 28, 2022

Virtual Meeting Process

- Attendees will be muted during presentation
- Please submit questions or comments during the presentation via “Chat” feature
- Questions and comments can also be submitted via email – swashington@ors.sc.gov

Bourke Reeve

Meeting Facilitator

**Contracted with Southeast Energy
Efficiency Alliance to assist South
Carolina Energy Office**



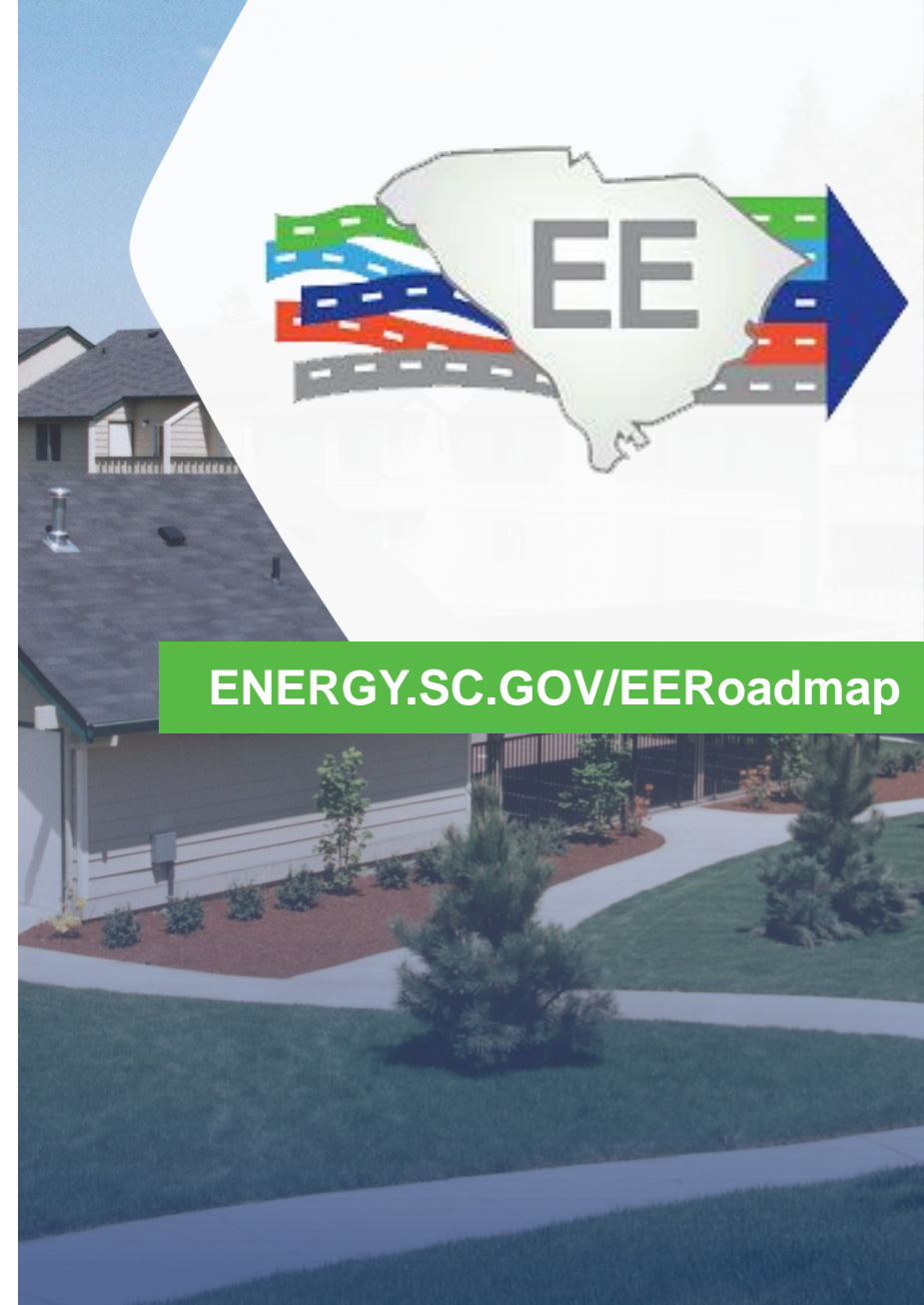
Topics Covered

1. Energy Office Info
2. SC Energy Efficiency Roadmap
3. 2021 and 2022 Activities
4. Home Energy Labeling Working Group
5. Process and Timeline
6. How To Get Involved

Energy Efficiency Roadmap Initiative

Overview

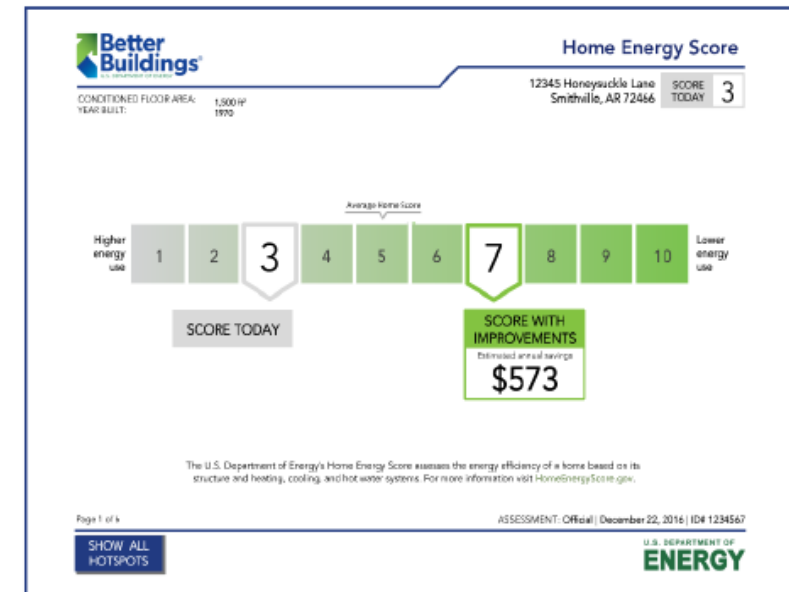
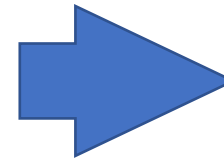
- Assembled EE Advisory Group
- Six Working Groups
- Revisit Energy Plan from 2016
- Virtual versus in-person
- 20 recommendations
- Final Report – 2021



ENERGY.SC.GOV/EERoadmap

Label, Sticker Disclosures

- Simple, uniform energy labeling for renters and purchasers
- For information on energy performance
- Voluntary



2021 and 2022 Activity

- Pilot interest
 - City of Columbia
 - Coastal Carolina University
- Support from NASEO
 - Working Group
 - One-on-one discussions
- Conversations to learn
 - Home Energy Score
 - NEEP/SEEA
 - Connecticut
 - Missouri
 - Oregon
 - University of Oregon
 - Utilities

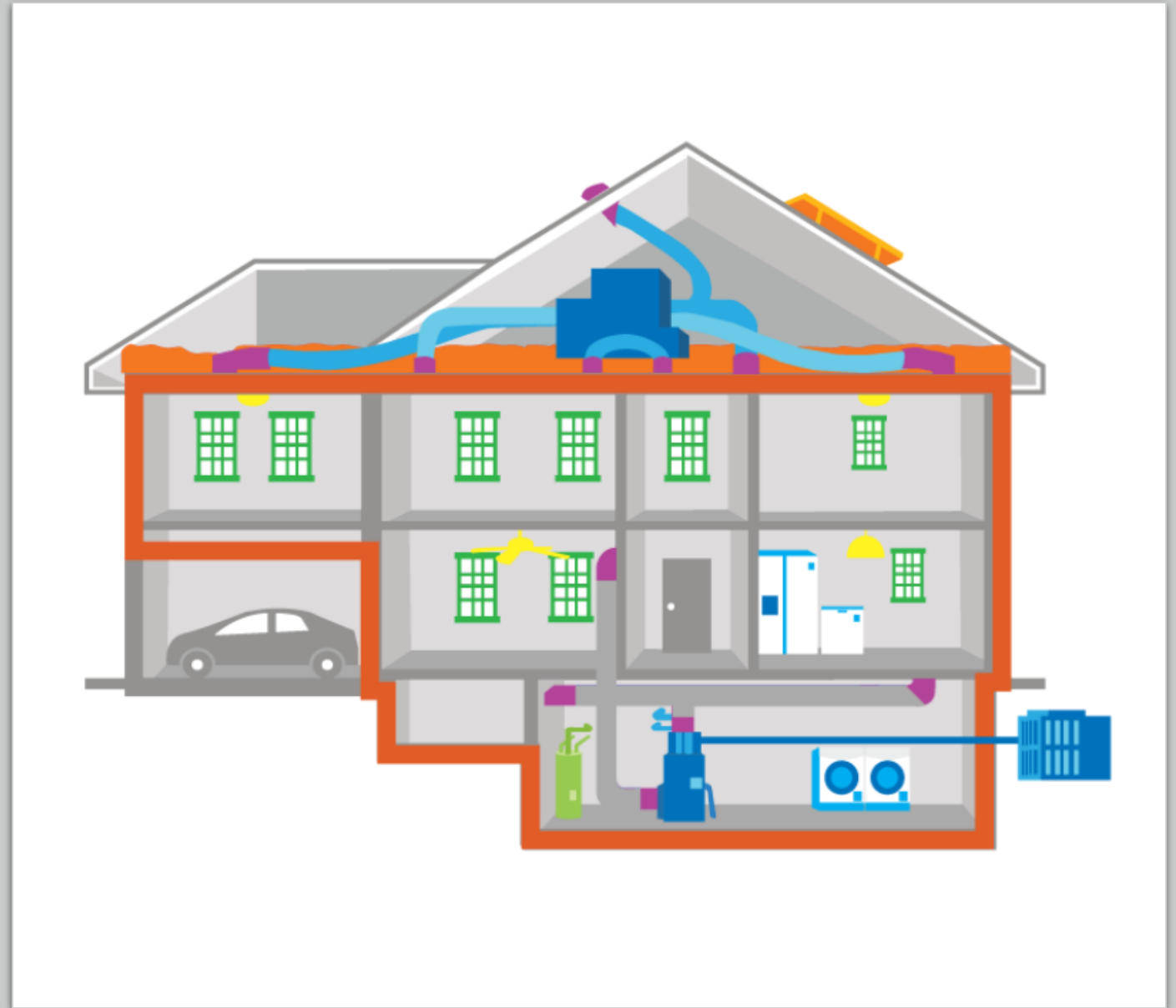
Maddie Koewler

National Association of State
Energy Officials

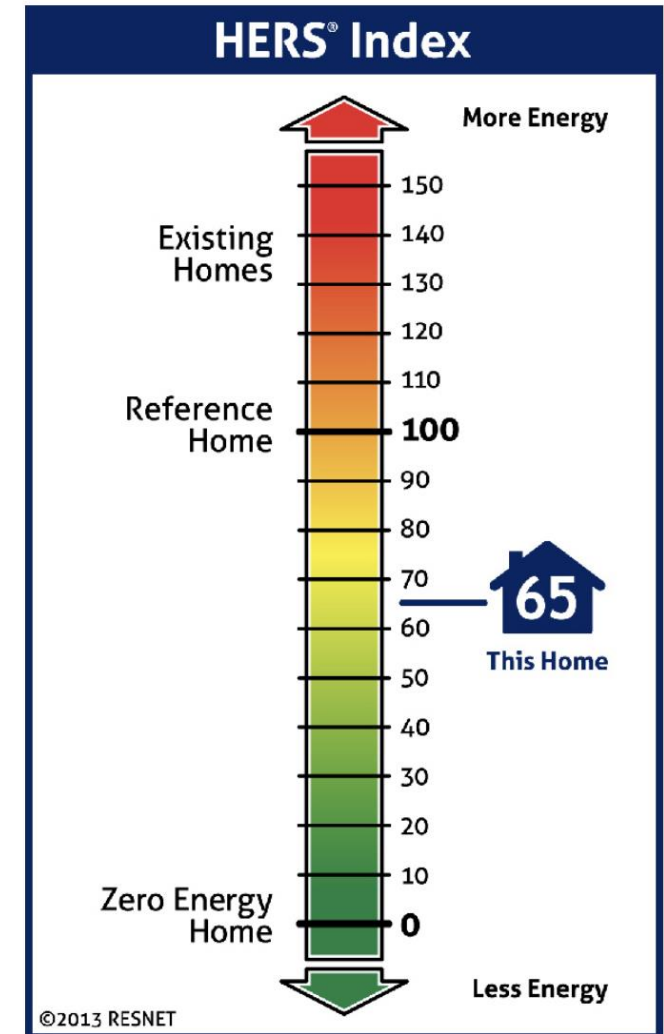
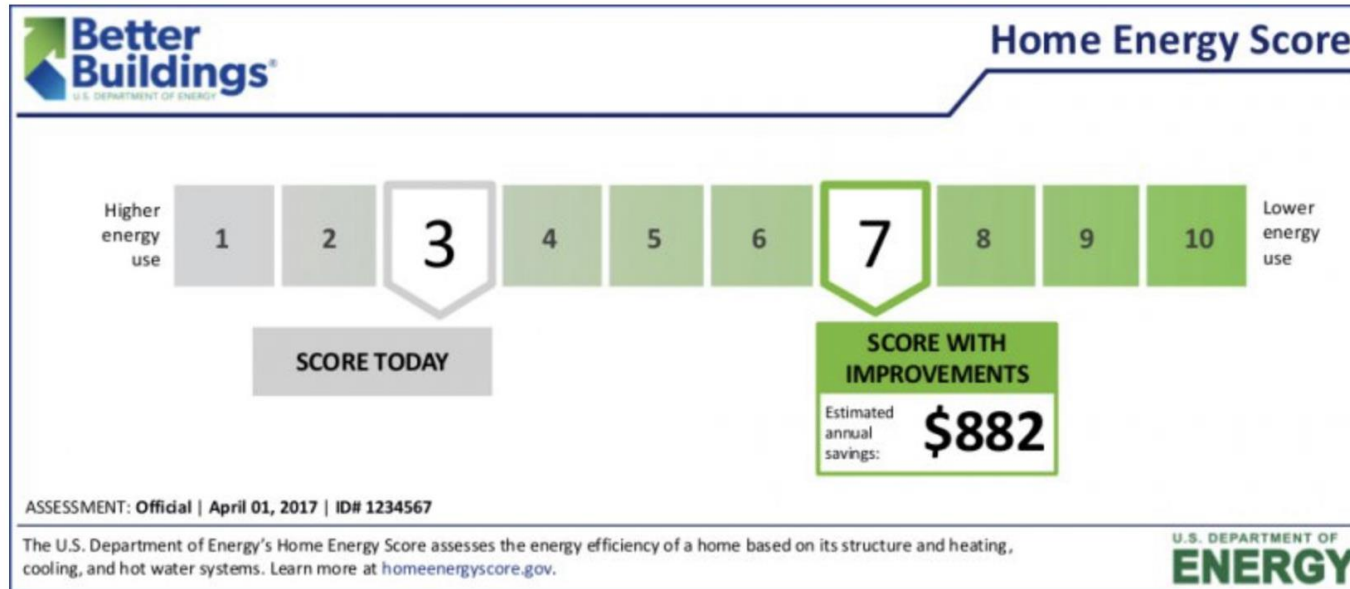


Why An Energy Label?

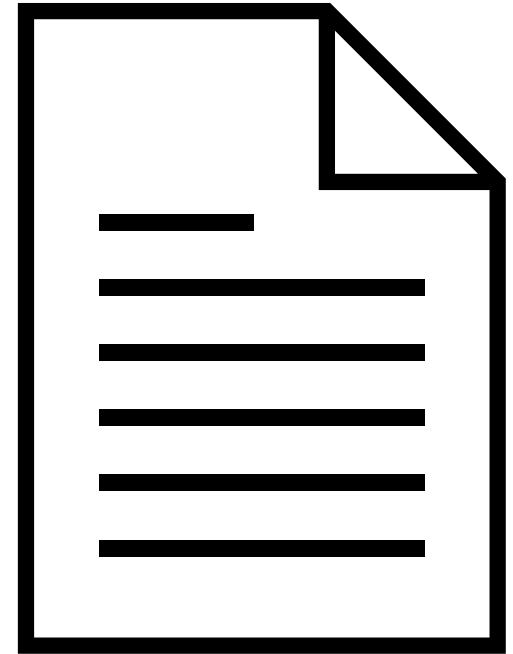
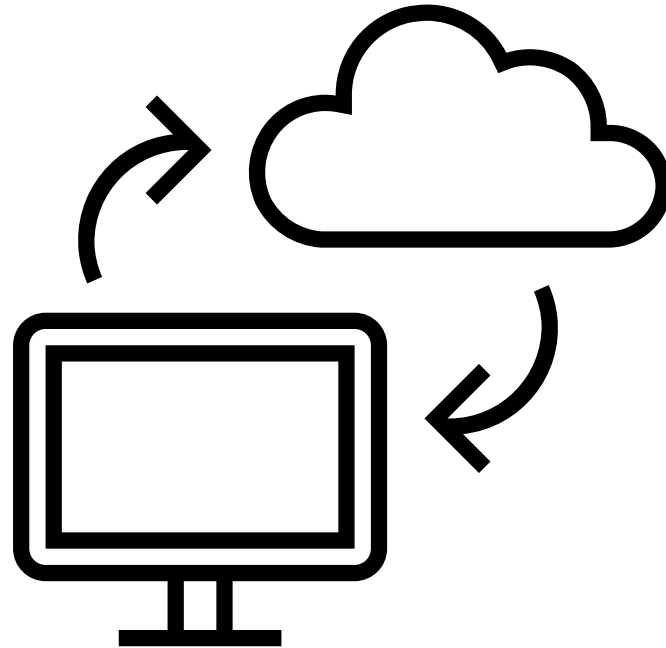
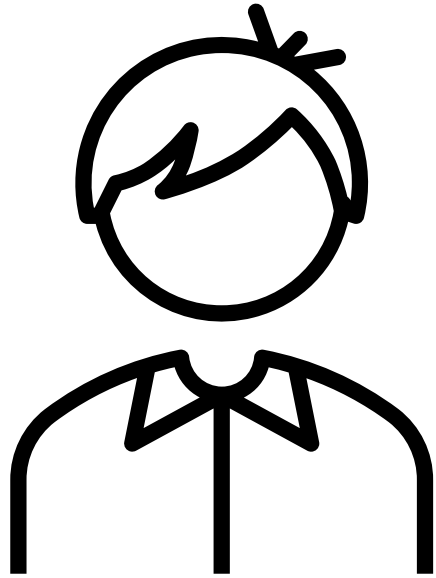
- Home performance
- Quality of energy systems
- Improvement recommendations
- Easy to understand metric




Energy Label Examples



How do they work?



State Label Examples



OREGON DEPARTMENT OF ENERGY

U.S. DEPARTMENT OF ENERGY

THIS HOME'S SCORE 6

THIS HOME'S ESTIMATED ENERGY COSTS

\$1,257

PER YEAR

HOME PROFILE

LOCATION:
4359 SE Something Ave
Salem, OR 97304

YEAR BUILT:
1925

HEATED FLOOR AREA:
2,348 sq. ft.

NUMBER OF BEDROOMS:
3

ASSESSMENT

ASSESSMENT DATE:
04/29/2019

SCORE EXPIRATION DATE:
04/29/2027

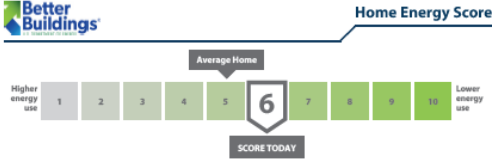
ASSESSOR:
John Smith
Medford Home Performance

PHONE:
503-555-1212

EMAIL:
smith@medfordhpr.com

LICENSE #:
1234567890

Flip over to learn how to improve this score and use less energy!



Home Energy Score

Official Assessment | ID# 233283

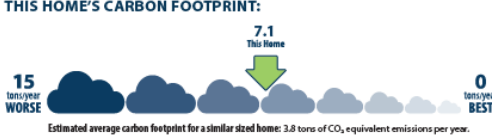
The Home Energy Score is a national rating system developed by the U.S. Department of Energy. The Score reflects the average energy efficiency of a home based upon the home's structure and heating, cooling, and hot water systems. The average score is a 5. Learn more at HomeEnergyScore.gov.

HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?

Electric:	8,275 kWh/yr (\$0.11/kWh)	\$943
Natural Gas:	677 therms/yr (\$1.09/therm)	\$738
Other:		\$0
Renewable Generation:		(\$424)
TOTAL ENERGY COSTS PER YEAR		\$1,257

How much renewable energy does this home generate?
3,719 kWh/yr

THIS HOME'S CARBON FOOTPRINT:



Estimated average carbon footprint for a similar sized home: 3.8 tons of CO₂ equivalent emissions per year.

- Actual energy use and costs may vary based on occupant behavior and other factors.
- Estimated energy costs were calculated based on current utility prices in your area.
- Carbon footprint is based only on estimated home energy use. Carbon emissions are estimated based on utility and fuel-specific emissions factors provided by the OR Department of Energy.
- This report is valid for eight years from the assessment date. A free reprint of the report is available from us.greenbuildingregistry.com with updated utility and carbon information annually.
- This report meets Oregon's Home Energy Performance Score Standard.

MISSOURI HOME ENERGY SCORECARD

RESET HERS INDEX

THIS HOME'S SCORE 17

OUT OF 150

THIS HOME'S ESTIMATED ENERGY COSTS

\$388

PER YEAR

HOME PROFILE

LOCATION:
1234 Main ST
Stockton, MO 65785

YEAR BUILT:
2006

HEATED FLOOR AREA:
3,745 sq.ft.

NUMBER OF BEDROOMS:
3

ASSESSMENT

ASSESSMENT DATE:
09/12/2017

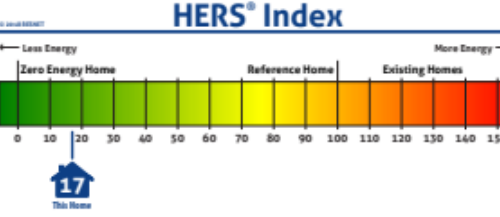
SCORE EXPIRATION DATE:
09/12/2025

ASSESSOR:
Amy Smith
Acme Audits

PHONE:
816-555-1212

EMAIL:
info@acme.com

LICENSE #:
2019-BR-0010-55



HERS® Index

← Less Energy → More Energy →

Zero Energy Home | Reference Home | Existing Homes

17 This Home

HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?

Electric:	3,269 kWh/yr	\$392
Natural Gas:	0 therms/yr	\$0
Other:		\$0
Renewable Generation:		(\$4)
TOTAL ENERGY COSTS PER YEAR		\$388

HOW MUCH RENEWABLE ENERGY DOES THIS HOME GENERATE?
36 kWh/yr

WHAT DOES THE SCORE MEAN?

Home Energy Rating System (HERS) Index: The HERS Rating conveys a home's energy efficiency relative to the 2006 International Energy Conservation Code. HERS uses an asset-based energy model that compares the home as designed (the "rated home") against the same home built to 2006 IECC standards, considered the "reference home", which would score 100. A Lower score is better; a home that uses 50% more energy than the reference home would score 150, and a home using 50% less energy would score 50. A zero-energy home that uses no energy (through efficiency and renewables) and saves 100% of the reference home's energy would score a 0. The score is most often used by builders complying with building energy code through the Energy Rating Index pathway in the International Energy Conservation Code (IECC), the ENERGY STAR program, or by contractors who are competing based on energy efficiency in new construction. Some lenders may also recognize HERS ratings and provide favorable financing. RESNET and the US Department of Energy determined that a typical resale home scores 130 on the HERS Index.

MAKE THE MOST OUT OF YOUR NEW HOME!

To learn more about ways to save energy, visit: Energy.mo.gov

- Total energy costs per year are estimated using an average utility cost (per unit of energy) for the State of Missouri (\$0.12/kWh for electricity; \$0.21/therm for natural gas).
- Actual energy costs per year may vary based on occupant behavior, utility provider, weather patterns, and appliance maintenance/health.
- Relisting 2-7 years after the assessment date requires a free reprint of the Report from us.greenbuildingregistry.com to update energy information.
- This report meets the standards of Missouri Home Energy Certification program administered by the Department of Economic Development, Division of Energy.

Energy Label Working Group

Working Group will provide the Energy Office with input on:

- Energy Label Design
- Training & Education Needs
- Pilot Program

Anticipated Schedule

- Stakeholder Meeting June 2022
- Working Group Meetings Q2 – Q4 2022
- Energy Label Design Finalized Q1 2023
- Energy Label Development and Software Q2 2023
- Pilot Locations Determined Q2 2023
- Education and Training Deployment Q3 – Q4 2023
- Pilot Locations Launch Labeling Program Q1 – 2024

Anticipated schedule is flexible based WG recommendations and schedule of pilot locations

How To Get Involved

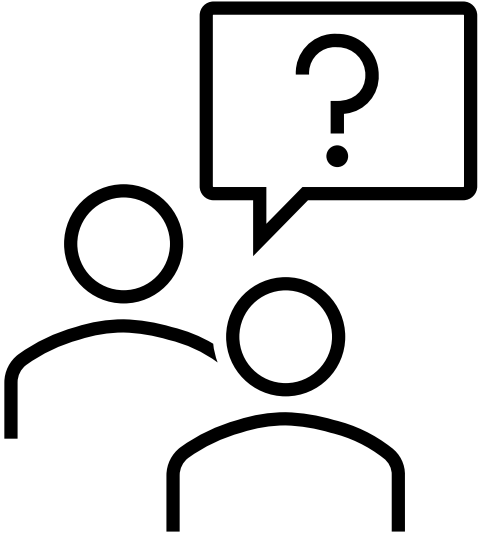
To participate in the working group please contact Stacey Washington by July 8th:

swashington@ors.sc.gov

Project Information Page:

<https://energy.sc.gov/node/3970>

Questions?



Thank You!

ENERGY.SC.GOV

