ENERGY OFFICE

Home Energy Labeling Project

Working Group Meeting

May 17, 2023

Meeting Format

- 1 Hour WG Meeting
- Each WG Meeting to Focus on Particular Questions
- WG Input to be Collected with Feedback at Future Meetings
- Jam Board Available for Comments/Ideas

To Discuss Today:

- Project Overview/Phases
- Review of WG Label Design Input
- Introduce Earth Advantage
- Update On Label Design
- Review Labeling Fact Sheet
- Next Steps
- Opportunities to Participate in Pilot
- Questions

Energy Label Project Phases

- Energy Label Design
  - What is the key information for the SC label
  - How is the Information presented on the label
- Administration
  - Who creates the label
  - Who manages the assessor/rater
- Training & Education Needs
  - Who needs training
  - What is critical to use/understand the label
- Pilot Program
  - Possible locations / participants

Review of WG Input On Label Design

- Survey Results
- Priorities for Information
- Preferred Label Layout

Follow Up From August Meeting/Survey

Label Design

- Survey Sent to WG Members
- Results Compiled
  - Weighted Based On # Of Respondents
    Ranking Item As #1 or #2 Priority
- Label Information Prioritized by WG
- Tiers of Information From High Priority to Low Priority
- Important to Remember:
  - None of the Information Needs To Be Eliminated From the Label
  - Priority Helps Decide How Prominent the Information Item Will Be
  - Final Label Design Will Be Created By Label Provider

Survey Results – Highest Priority
92% - 100%

- Total Estimated Energy Use
- Home Energy Score
- Estimated Savings with Improvements

Survey Results – High Priority

85%

- List of Improvements
- Score with Improvements

Survey Results – Medium Priority

69%

- Electric, Gas or Other Energy Source Use
- Home Information – Age, Area, # of Bedrooms, etc.
- Where To Find More Information

Survey Results – Medium Low Priority 55%

- Carbon Footprint
- Carbon Footprint With Improvements

Survey Results – Low Priority

7%

- Assessor Identification

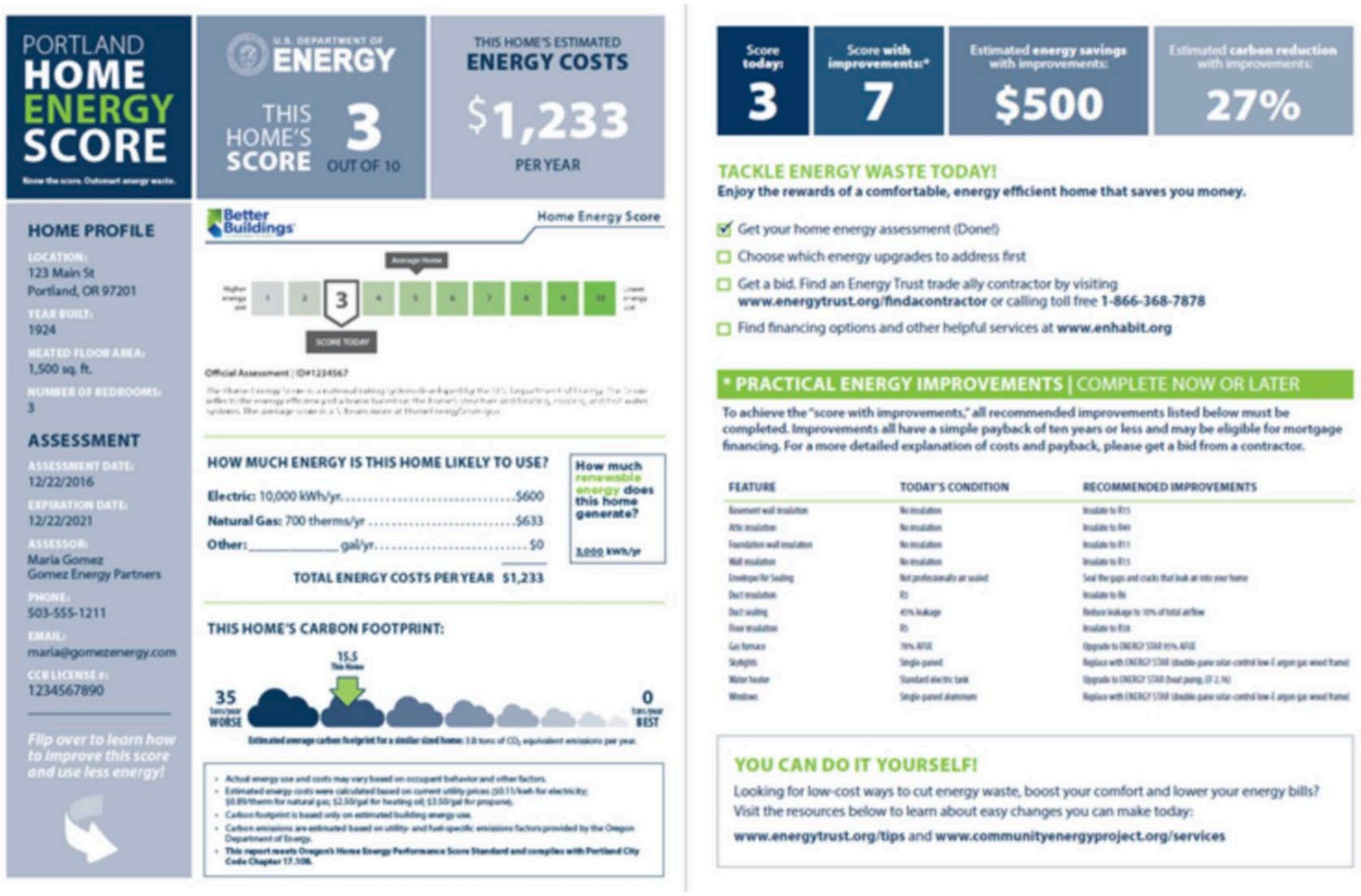
Additional Information For Label

- visual charts and graphs to better display information
- comparison of home to others like it in the neighborhood
- Equipment efficiency information
- Just make sure any jargon that may be used on the label is defined
- This relates to "where to find more information" but having a list of resources to energy efficiency, weatherization, and sustainable facts or a one-pager people could access
- Renewable energy use such as solar, wind and passive design strategies
- I think some type of combination from these examples would be good
- Information on radon testing/measurement (especially if energy efficiency measures are recommend). Sometimes after envelope-tightening of a building radon levels are higher than before
- What about using a QR to direct to a webpage with more info (if there is one that's relevant)?

Energy Label Design - Layout

- How is the label information presented?

Most Popular



PORTLAND HOME ENERGY SCORE

Know the score. Outsmart energy waste.

U.S. DEPARTMENT OF ENERGY

THIS HOME'S SCORE 3 OUT OF 10

THIS HOME'S ESTIMATED ENERGY COSTS

$1,233 PER YEAR

HOME PROFILE

LOCATION:
123 Main St
Portland, OR 97201

YEAR BUILT:
1924

HEATED FLOOR AREA:
1,500 sq. ft.

NUMBER OF BEDROOMS:
3

ASSESSMENT

ASSESSMENT DATE:
12/22/2016

EXPIRATION DATE:
12/22/2021

ASSESSOR:
Maria Gomez
Gomez Energy Partners

PHONE:
503-555-1211

EMAIL:
maria@gomezenergy.com

CCB LICENSE #:
1234567890

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

Better Buildings — Home Energy Score

Average Home

3

SCORE TODAY

Official Assessment | ID#1234567

HOW MUCH ENERGY IS THIS HOME LIKELY TO USE?

Electric: 10,000 kWh/yr $600

Natural Gas: 700 therms/yr $633

Other: _____ gal/yr $0

TOTAL ENERGY COSTS PER YEAR $1,233

How much renewable energy does this home generate?

3,000 kWh/yr

THIS HOME'S CARBON FOOTPRINT:

15.5 This Home

35 tons/year WORSE

0 tons/year BEST

Estimated average carbon footprint for a similar sized home: 3.8 tons of CO_2 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 ($0.11/kwh for electricity; $0.89/therm for natural gas; $2.50/gal for heating oil; $3.50/gal for propane).
- Carbon footprint is based only on estimated building energy use.
- Carbon emissions are estimated based on utility- and fuel-specific emissions factors provided by the Oregon Department of Energy.
- This report meets Oregon's Home Energy Performance Score Standard and complies with Portland City Code Chapter 17.108.

Score today:	Score with improvements:*	Estimated energy savings with improvements:	Estimated carbon reduction with improvements:
3	7	$500	27%

TACKLE ENERGY WASTE TODAY!

Enjoy the rewards of a comfortable, energy efficient home that saves you money.

- [x] Get your home energy assessment (Done!)
- [ ] Choose which energy upgrades to address first
- [ ] Get a bid. Find an Energy Trust trade ally contractor by visiting **www.energytrust.org/findacontractor** or calling toll free **1-866-368-7878**
- [ ] Find financing options and other helpful services at **www.enhabit.org**

*** PRACTICAL ENERGY IMPROVEMENTS | COMPLETE NOW OR LATER**

To achieve the "score with improvements," all recommended improvements listed below must be completed. Improvements all have a simple payback of ten years or less and may be eligible for mortgage financing. For a more detailed explanation of costs and payback, please get a bid from a contractor.

FEATURE	TODAY'S CONDITION	RECOMMENDED IMPROVEMENTS
Basement wall insulation	No insulation	Insulate to R15
Attic insulation	No insulation	Insulate to R49
Foundation wall insulation	No insulation	Insulate to R11
Wall insulation	No insulation	Insulate to R15
Envelope/Air Sealing	Not professionally air sealed	Seal the gaps and cracks that leak air into your home
Duct insulation	R5	Insulate to R8
Duct sealing	45% leakage	Reduce leakage to 10% of total airflow
Floor insulation	R5	Insulate to R30
Gas furnace	78% AFUE	Upgrade to ENERGY STAR 95% AFUE
Skylights	Single-paned	Replace with ENERGY STAR (double-pane solar-control low-E argon gas wood frame)
Water heater	Standard electric tank	Upgrade to ENERGY STAR (heat pump, EF 2.76)
Windows	Single-paned aluminum	Replace with ENERGY STAR (double-pane solar-control low-E argon gas wood frame)

YOU CAN DO IT YOURSELF!

Looking for low-cost ways to cut energy waste, boost your comfort and lower your energy bills? Visit the resources below to learn about easy changes you can make today:

www.energytrust.org/tips and **www.communityenergyproject.org/services**

Welcome Earth Advantage

Meg Garabrant

Sr. Manager, Real Estate Services

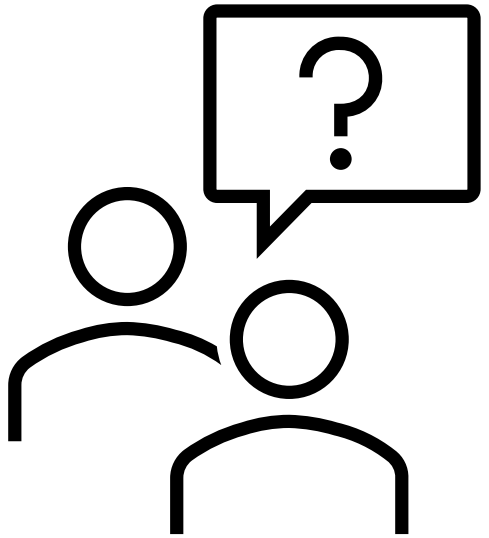
Green Building Registry

Single Source Building Performance Data

- finalizing label design
- set up labeling database/Infrastructure

Customized SC Home Energy Label

Questions?



SC Home Energy Labeling Fact Sheet

1 of 1

South Carolina Home Energy Labeling

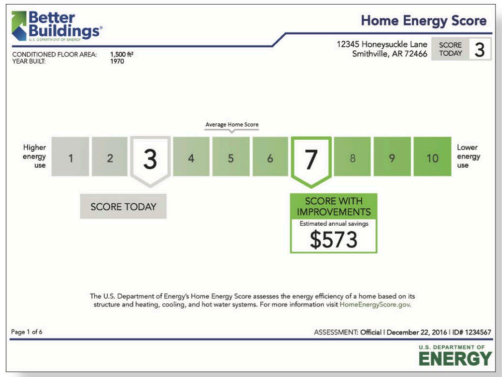
Project Background

The South Carolina Energy Office of the Office of Regulatory Staff (Energy Office) is developing a home energy labeling framework for the state. The home energy labeling project came from recommendations of the *Energy Efficiency Roadmap*. The labeling program framework intends to develop a statewide infrastructure to implement and support the labeling of residential properties.

Residential energy labeling programs produce an assessment of a home's energy performance and compares it to that of other similar homes. They provide valuable information for homeowners, homebuyers, and other stakeholders such as real estate professionals, appraisers, lenders, and contractors. Having a labeling infrastructure supports consistent, transparent, and useful labeling across the state.

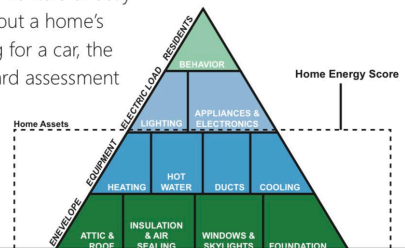
In 2022 a working group was

What is The Home Energy Score Label?

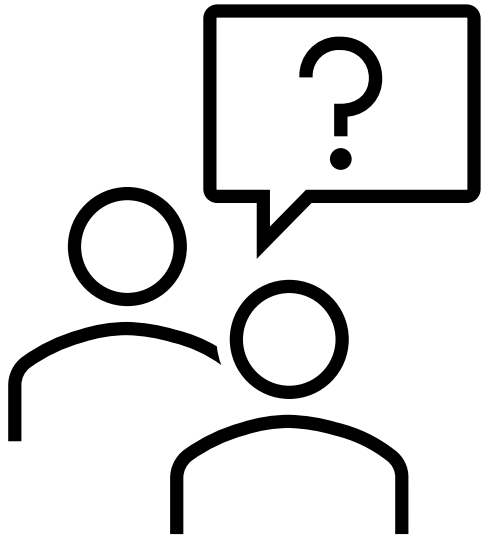


Learn More About Home Energy Score

The basis for the South Carolina home energy labeling program is the The Department of Energy Home Energy Score™ Program. The Home Energy Score provides homeowners, buyers, and renters directly comparable and credible information about a home's energy use. Like a miles-per-gallon rating for a car, the Home Energy Score is based on a standard assessment of energy-related assets to easily compare energy use across the housing market. Read more *About the Score* and use this page to guide you to resources. Additionally, homes and raters that use the Home Energy Rating System will also



Questions?



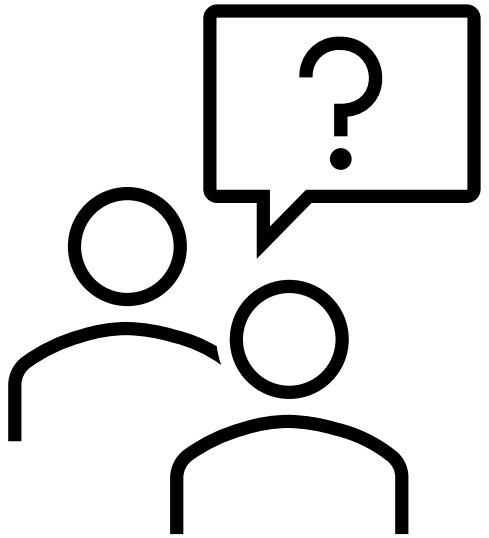
Next Steps

- ✓EarthAdvantage Joins Project - Q2 2023
  - Finalize Statewide Labeling Support Infrastructure & Label Design
- Release Full Vendor RFP – Q3 2023
- Select Vendor for Full Program Launch – Q3/Q4 2023
- Train Initial Assessors – Q4 2023/Q1 2024
- Conduct Statewide Outreach – Q4 2023/Q1 2024
- Identify Local Partners for Pilot Projects – Q1 – Q3 2024

Local Pilot Projects

- Jurisdictions or Organizations in SC interested in participating in a Pilot Labeling Project
- Support to help:
  - develop ordnance or standards
  - Train local assessors
  - Promote Labeling Program
  - Integrate Labeling into existing programs
  - Other?

Questions?



Contact & Project Information

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Project Information Page:

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

ENERGY.SC.GOV

SCEnergyOffice