

Oregon Department of **ENERGY**

*Driving Market
Transformation Strategies
Through Home Energy
Scorecards &
Transparency in the
Residential Real Estate
Market*

Kaci Radcliffe
September 24, 2018



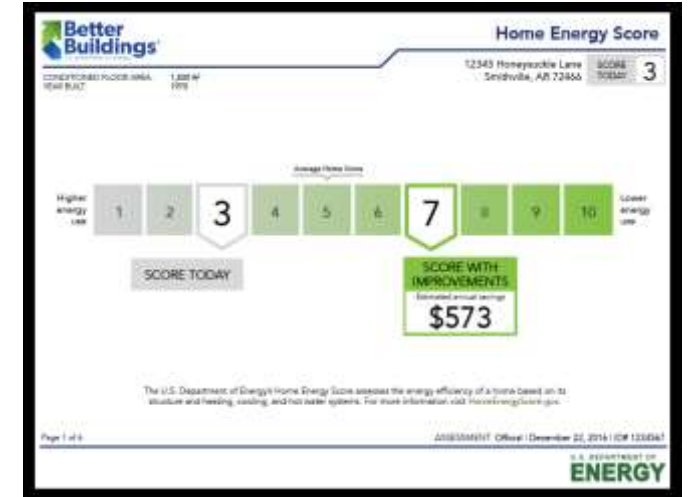
Home Energy Scoring

Bringing transparency and value to buyers and sellers



Why a home energy score policy?

Scores, labels and ratings communicate information. But, consumer labeling is inconsistent and unavailable in markets.



A Solution that Serves the Market

- **Owners:** Value and potential for energy upgrades
- **Buyers:** Transparency, added metric to assess home
- **Contractors:** Meaningful, consistent information
- **Real estate professionals:** Credible information on the listing

Statewide Approach & Framework




- ***Market based delivery***
- ***Enabling local action***

New! RFP for Statewide Implementation:

- *Consistency across state*
- *Training and mentoring*
- *Quality Assurance*
- *Outreach and messaging*

Local Adoption & Leadership



HOME PROFILE

LOCATION:
1234 Anyplace St
Portland, OR 97201

YEAR BUILT:
1923

HEATED FLOOR AREA:
945 sq. ft.

NUMBER OF BEDROOMS:
2

ASSESSMENT

ASSESSMENT DATE:
12/22/2017

SCORE EXPIRATION DATE:
12/22/2025

ASSESSOR:
Maria Gomez
Gomez Energy Partners

PHONE:
503-555-1211

EMAIL:
mgomez@
gomezenergymodeling.com

CEC LICENSE #:
1234567890

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

U.S. DEPARTMENT OF ENERGY

THIS HOME'S SCORE **1** OUT OF 10

THIS HOME'S ESTIMATED ENERGY COSTS **\$2,932** PER YEAR

Better Buildings

Home Energy Score

Higher energy use | Lower energy use

1 2 3 4 5 6 7 8 9 10

SCORE TODAY

Official Assessment | ID#1234567

The Home Energy Score is a national rating system developed by the U.S. Department of Energy. The score reflects the energy efficiency of a home based on 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: 10,000 kWh/yr.....\$930

Natural Gas: 0 therms/yr.....\$0

Other: 776 gal/yr.....\$2,002

TOTAL ENERGY COSTS PER YEAR **\$2,932**

How much renewable energy does this home generate?

_____ kWh/yr

THIS HOME'S CARBON FOOTPRINT:

15 tons/year WORSE | 9.2 This Home | 0 tons/year BEST

What should my home's carbon footprint be? Between now and 2030, Portlanders should reduce carbon pollution per household to 3 metric tons per year to reach our climate goals.

- 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; \$1.00/therm for natural gas; \$2.58/gal for heating oil; \$2.31/gal for propane).
- 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.
- Rolling 2-7 years after the assessment date requires a free reprint of the Report from: www.greenbuildingregistry.com/portland to update energy and carbon information.
- This report meets Oregon's Home Energy Performance Score Standard and complies with Portland City Code Chapter 17.108.

Score today: **1**

Score with improvements*: **9**

Estimated energy savings with improvements: **\$1,672** PER YEAR

Estimated carbon reduction with improvements: **57%** PER YEAR

TACKLE ENERGY WASTE TODAY!

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

Get your home energy assessment. Done!

Choose energy improvements from the list of recommendations below.

Need help deciding what to do first? Non-profit Enhabit offers free 15-minute phone consults with expert home advisors. Call 855-870-0049.

Select a contractor (or two, for comparison) and obtain bids.

Checkout www.energytrust.org/findcontractor or call toll free 1-866-368-7878.

Explore financing options at www.enhabit.org or www.energytrust.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
Attic insulation	Ceiling insulated to R-0	Insulate to R-38 or R-49 if code requires it
Attic insulation	Ceiling insulated to R-19	Insulate to R-38 or R-49 if code requires it
Duct insulation	Uninsulated	Insulate to R-6
Duct sealing	Unsealed	Reduce leakage to a maximum of 10% of total airflow
Envelope/Air Sealing	Not professionally air sealed	Professionally air seal
Heating Equipment	Oil furnace 60% AFUE	Upgrade to ENERGY STAR
Heating Equipment	Natural Gas/Propane Furnace	Upgrade to ENERGY STAR
Wall insulation	Insulated to R-0	Fully insulate wall cavities
Water Heater	Standard electric tank	Upgrade to ENERGY STAR, minimum 2.76 EF (Energy Factor)
Windows	Multiple types	Upgrade to ENERGY STAR
Air Conditioner	None	
Basement wall insulation	None	
Floor insulation	Insulated to R-0	
Foundation wall insulation	None	
Skylights	None	
Cathedral ceiling	None	
Solar PV	None	Visit www.energytrust.org/learn to learn more

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

6,300 scores since November 2017



Search for green and energy efficient data in the City of Portland Home Energy Score program

Enter the address you're looking for

Street Address

Unit, Suite, Apt, etc.

City State Zip Code

SEARCH

Looking Forward

- Statewide Training, QA, and Consistency
- EMPRESS Toolkit

The screenshot shows the Oregon Department of Energy website. The main heading is "Home Energy Performance Score Systems". Below the heading, there is a quote: "Investing in energy-efficient homes helps Oregonians save money now and supports a better energy future." To the right, there is a small image of a home energy score report showing a score of 57. Below the quote, there is a paragraph explaining that Home Energy Performance Score systems help homeowners and homebuyers better understand a home's energy use, and how even small improvements can make a big difference in energy savings. At the bottom, there are two bullet points: "Learn more about home scoring on the U.S. Department of Energy's Better Buildings Solutions Center" and "See a sample score report with recommended improvements".

The screenshot shows the NASEO website. The main heading is "Energy Metrics to Promote Residential Energy Scorecards in States (EMPRESS)". Below the heading, there is a sub-heading: "A Guide for State and Local Governments Learn how to establish a home energy labeling program in your jurisdiction". There is a "Read More" button. Below the heading, there is a section titled "What is the EMPRESS Project". The text describes the project as a State Energy Office-led project, supported by funding from the U.S. State Energy Program of the U.S. Department of Energy and private sector partners. The project's objective is to advance large-scale home energy labeling, and harmonize various energy scoring programs to better support the market valuation of energy efficient homes. The EMPRESS project is led by the Rhode Island Office of Energy Resources, and includes as project partners the Massachusetts Department of Energy Resources, the Missouri Division of Energy, the Arkansas Energy Office, the Oregon Department of Energy, the National Association of State Energy Officials, Earth Advantage, Energy Futures Group, and Vermont Energy Investment Corporation. At the bottom, there is a paragraph stating that a major deliverable from the EMPRESS project is the information and content on this website, and that if you are a local or state official, you should check out the EMPRESS Guidebook on how to establish a home energy labeling program in your jurisdiction.



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