Eugene Water & Electric Board

This Presentation Covers:

- A way to describe a home's energy efficiency: Home Energy Score
- ➤ A summary of the homes that are participating in the Bethel Clean Energy project
- EWEB's rebate and loan offerings for energy efficiency, water efficiency, and resiliency

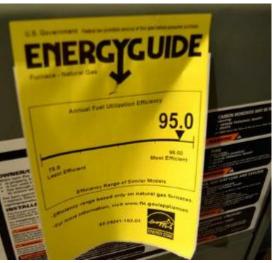
Why Does EWEB Care About Energy Efficiency?

- Conservation is cheaper than new power plants
- ► For more than 40 years, the Eugene Water & Electric Board has been a leader in promoting strong and innovative conservation programs.
- Improving residential energy efficiency helps to:
 - ► Improve comfort & save families money on energy bills
 - Reduce wasted energy & carbon emissions
 - Foster growth of energy efficiency jobs in local economy
 - Mitigate health impacts of homes, including mold, allergens, and pests

A Way to Provide Energy Information: Home Energy Score

- US Department of Energy developed the Home Energy Score in ~2016 (EWEB is a partner)
- A "miles-per-gallon" rating for homes
- An affordable, reliable, & easy way to understand a home's energy performance
- EWEB made modifications for flexibility
 - ► Encourages clean electricity
 - ► Allows for remote assessments
 - ► Allows for manufactured homes, apartments

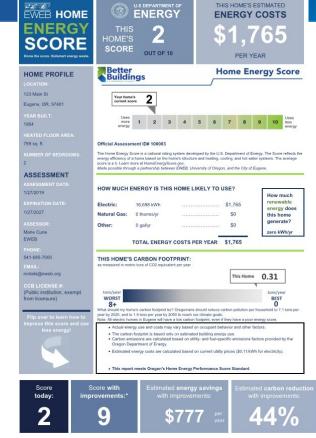




Home Energy Score: What It

Means

- The Score is more useful than looking at prior utility bills
 - Assumes average weather for that location
 - Controls for impacts due to occupant behavior by assuming "average" behavior for all homes
 - Score of 1: High energy costs, expected to use more energy each year than 85% of U.S. homes
 - Score of 5: Average energy costs, ~50% of homes in the U.S. use less energy
 - Score of 10: Low energy costs, expected to use less energy than 90% of U.S. homes
- Score with Improvements: Reflects how home will score if cost-effective efficien



FEATURE TODAY'S CONDITION RECOMMENDED IMPROVEMENTS Ceiling 1: Vaulted, R-0: Ceiling 2: R-11 Add attic insulation to R-49 as space allows Floor insulation Wall insulation Envelope/Air Sealing Have the home professionally air sealed Not professionally air sealed Double-pane wood or vinyl Skylights Heating system Baseboard, Electric Install an efficient heat pump Cooling system No Cooling **Duct insulation** No ductwork No ductwork Water heater Electric storage Install a heat pump water heater Visit bit.ly/EWEBsolar for more info

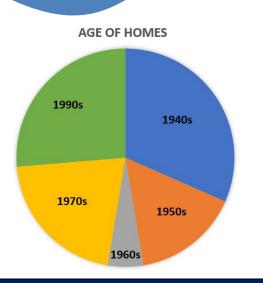
What are the participating homes like?

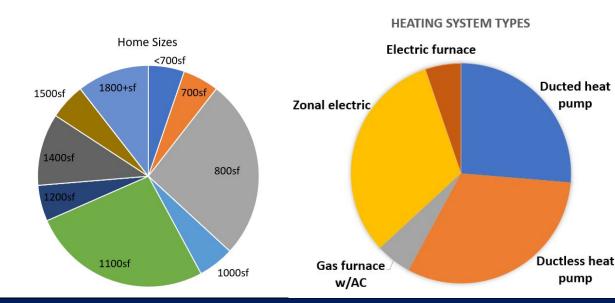
A variety of homes:

Mostly older (average year built=1967)

Modestly-sized (average size=1154sf)

Mostly electric heat, ~a third using electric resistance heat

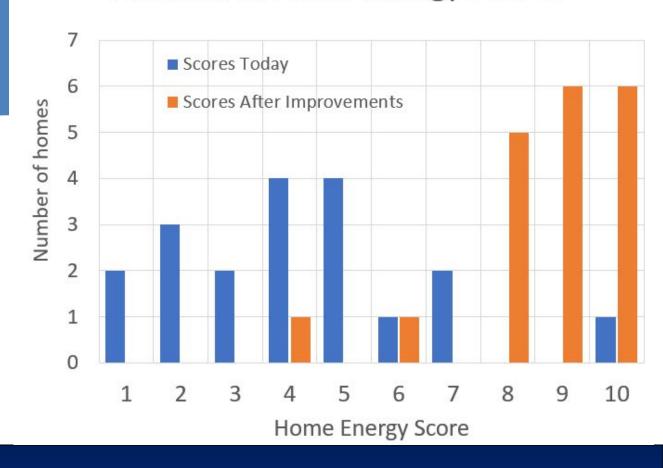




How did participating homes score?

The average score was 4.2 in this group of homes. If improvements are made, the average score would be 8.6

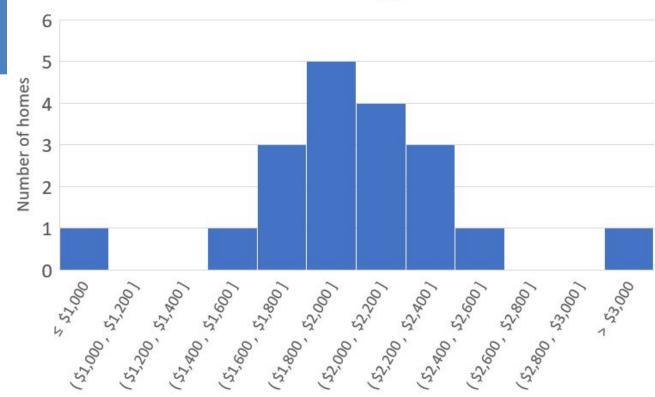
Variation in Home Energy Scores



What are the annual energy costs for participating homes?

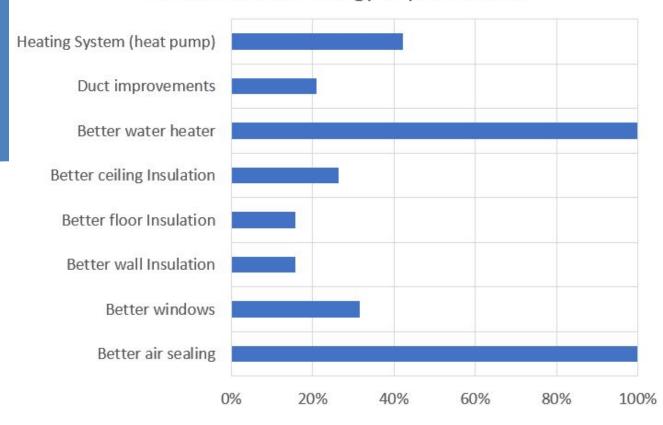
Annual energy costs range from \$298-\$3288/yr with an average of \$1953/yr





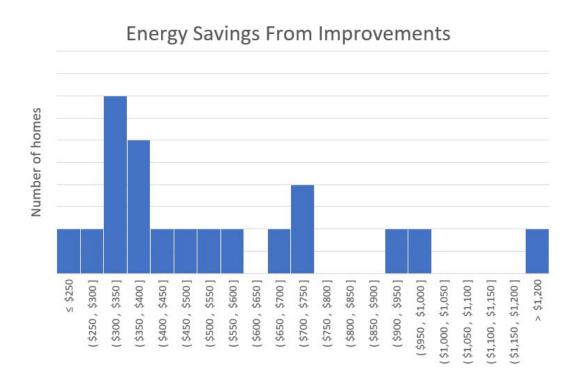
What energy improvements are recommended?

Recommended Energy Improvements



How much energy would be saved?

Annual savings range from \$237-\$1729/yr, with an average of \$564/yr



EWEB can help with the costs of improvements

- Rebates or 0% interest loans
- Additional funding for limited income households