



Entity...Clean Energy Works Oregon
Project Type:.....Weatherization
Stimulus Funds:\$3 million
Energy savings/yr: ...1,097,014 kWh
.....226,404 therms

Reduce energy waste by improving one home at a time

One home at a time.

That's the plan to reduce energy waste in Oregon. Start with the individual homeowner and before long, everyone is involved.

Clean Energy Works Oregon (CEWO) is a non-profit organization created in 2010 to reduce energy waste by encouraging homeowners to make their homes more energy efficient.

The organization assists homeowners with making energy improvements by providing:

- A free four-hour home energy assessment that identifies changes that will make their home more energy efficient.
- No-money-down financing options, rebates that reduce the project costs and loan payments that can be offset by energy savings.
- An energy advisor who provides homeowners guidance on the process from start to finish.

The City of Portland's Bureau of Planning and Sustainability created CEWO when the US Department of Energy provided the City with \$20 million in American Recovery and Reinvestment Act funding to deliver residential energy retrofits.

In 2009, the US Department of Energy awarded the Oregon Department of Energy (ODOE) with \$42.1 million in Recovery Act (stimulus) funding for its State Energy Program. While the majority of the ODOE funds went to energy efficiency and renewable energy projects in public sector (state, county, city and school) buildings and a few private sector buildings, ODOE wanted a portion to go to residential projects.

The timing was good. Clean Energy Works Oregon had its operations in place and ODOE wanted to award the funding to get contractors back to work as soon as possible.

ODOE awarded the City of Portland \$3 million of its Recovery Act funds for CEWO services. The money was used to pay for the home energy assessments (at no cost to homeowners), the energy adviser services (also at no cost to homeowners) and rebates to encourage homeowners to take action.

CEWO primarily used ODOE funds for services they provided in Multnomah, Washington and Clackamas counties that were the focus early in the program.

CEWO has now expanded to include Crook, Deschutes, Jackson, Jefferson, Josephine, Klamath and Lake counties.



A home in Portland is undergoing an energy upgrade facilitated by Clean Energy Works Oregon (CEWO). The work is paid for in part with Recovery Act (stimulus) funds from the Oregon Department of Energy.



The ODOE Recovery Act \$3 million funding has now been expended. The projects paid for 1,109 audits, 2,421 energy advisor services, and rebates for 680 projects.

The program concentrated on older homes (built prior to 1993) where energy savings can be greater (15 percent energy savings per home was the minimum). Of the 680 projects completed, 509 were in homes built prior to 1963. The 680 projects involved 1.3 million square-feet of residential space.

The projects will save 1,097,014 kWh of electricity and 226,404 therms of natural gas each year. This is enough to heat 644 average Oregon homes every year.

The total project cost for the 680 projects was \$11,129,970. Homeowners received rebates paid for with the ODOE funding so their total loan costs were just \$9,147,930.

All projects received a post-construction energy audit to verify energy savings. Ninety percent of post-construction audits revealed that the actual energy savings were higher than originally estimated. The average pre-construction energy savings were estimated at 31 percent. Actual post-construction average energy savings were 50 percent.

The most popular measures were air sealing, attic, floor and wall insulation. Many homeowners wanted to install new windows, but they are typically the least cost-effective weatherization measure. Window replacement measures were only allowed on projects that achieved a minimum of 30 percent energy savings.



Mark Caso, owner/field tech with Energy Solutions Unlimited, inspects a customer's water heater as part of an energy audit on a NW Portland home.

In addition to energy savings, job creation was a major goal of the program. Contractors on the pre-approved list had to agree to pay a family-supporting wage and hire from a diverse pool of skilled workers. The ODOE funding paid for 39,646 work hours.

CEWO still at work

Although the ODOE Recovery Act funding has been spent, CEWO is still available for homeowners and continues to have some rebate funding available.

For more about CEWO, see www.cewo.org



The Oregon Department of Energy (ODOE) awarded this energy project with American Recovery and Reinvestment Act (stimulus) funds through the State Energy Program. These funds are designated for energy efficiency and renewable energy projects. The U.S. Department of Energy administers the funds, approves the projects and reviews the state's progress. The Oregon Department of Energy received \$42.1 million in SEP funding.

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