

Northwest *Save Energy Now* Industrial Energy Efficiency Initiative

The Northwest region of the United States is known for its long-standing commitment to energy efficiency. As part of this commitment, The Washington State University Extension Energy Program (WSU), Oregon Department of Energy (ODOE), Idaho Office of Energy (IOER), and Montana Department of Environmental Quality (MDEQ) have developed a multifaceted approach to helping medium- and large-sized industrial plants identify and implement these affordable energy efficiency measures. The Northwest team's effort is delivering training, assessments, and technical and project implementation support directly to industries while strengthening the infrastructure elements that support significant reductions in industrial energy use over the long term.

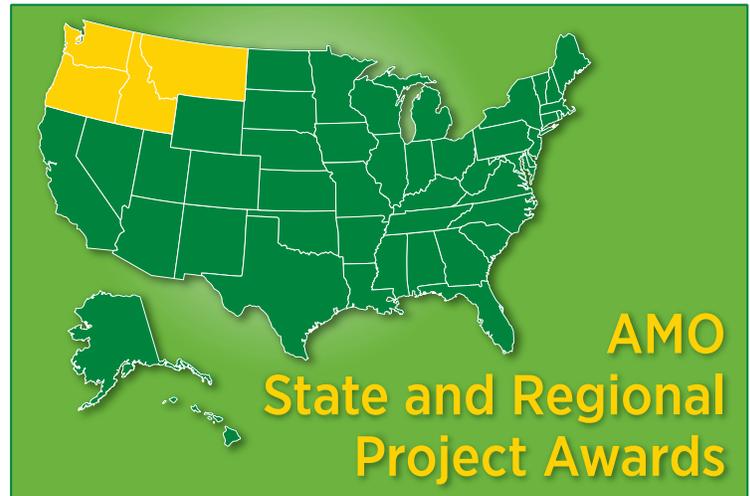
The focus of the Northwest Industrial Partnerships project is to implement energy efficiency improvements in medium-large sized industrial facilities in Washington, Oregon, Idaho, and Montana. The project is building upon and extending existing *Save Energy Now* and other state sponsored industrial projects and seek to leverage community block grant funds.

The objective of this project is to collaboratively help achieve a 2.5% annual reduction in energy intensity in the region, or 7.5% over the project period. The collaboration also aims to increase energy efficiency awareness, identify and employ low-cost energy efficiency improvements in plants, expand partnerships between state and regional energy efficiency groups, and enhance the regional energy efficiency infrastructure.

This project is achieving this objective through raising awareness of industry's opportunities to increase energy efficiency, providing advanced technical assistance, training, and assessment services to identify project opportunities and encourage implementation; this involves coordinating with players regionally to address key issues that impede implementation of energy efficiency projects and strengthening state and regional energy efficiency infrastructure.

By focusing on relationships with industries and with federal, state and regional energy efficiency organizations, the WSU Extension Energy Program has developed a robust and successful program that delivers assessments, training, technical assistance, conferences, and outreach. This model is being expanded to provide program support to the other three states—Oregon, Idaho, and Montana, as well as technical and education services to industry.

The team is well on its way to meeting or exceeding its goals. The team has conducted more than a dozen assessments, most



Project Description

Funding Amount: \$840,652

Funding Source: U.S. Department of Energy, Advanced Manufacturing Office

Program Period: 7/1/2009 to 6/30/2012

Funding Amount: \$500,000

Funding Source: American Recovery and Reinvestment Act

Program Period: 9/30/2009 to 9/30/2011



Project Success Highlights

- Through the end of 2010, the Northwest regional team had completed 20 projects with local industrial companies and achieved 1,744,223 million Btu of energy savings resulting in cost savings to those plants of \$949,020 annually.
- Provided planning support for three years of consecutive annual Northwest Industrial Energy Efficiency Summits.
- Facilitated fifty industrial best practices and other trainings with more than 1,000 attendees.

Primary Investigator

Washington State University Energy Extension Program, Olympia, WA

Project Partners

Boise Building Solutions, Medford, OR

Cascade Natural Gas, Seattle, WA

Dick Reese and Associates, Inc., Norcross, GA

Energy Trust of Oregon, Portland, OR

Idaho Office of Energy Resources, Boise, ID

Idaho TechHelp, Boise, ID

Montana Department of Environmental Quality, Helena, MT

Montana Manufacturing Extension Center, Bozeman, MT

Northwest CHP Application Center, Olympia, WA

Northwest Energy Efficiency Alliance, Portland, OR

Northwest Food Processors Association, Portland, OR

Oregon Department of Energy, Salem, OR

Oregon Manufacturing Extension Partnership, Beaverton, OR

Oregon State University Industrial Assessment Center, Corvallis, OR

of which were performed directly by WSU technical experts and U.S. Department of Energy (DOE) Qualified Specialists. The team also has conducted several pre-assessment site visits.

Progress and Milestones

Activity Description	Goal	Completed to Date (AMO)	Completed to Date (ARRA)
Assessments	7	11	8
Identified Energy Savings (Trillion Btu)	-	-	21,580 million Btu
Implemented Energy Savings (Trillion Btu)	-	1.78 million Btu	-
Trainings	6	11	8
Individuals Trained	-	232	182
Pilots / Demonstrations	0	0	0
Plants Impacted	-	243	497

(As of September 2011)

A large part of this success has come in developing and maintaining relationships with other regional energy efficiency organizations, including utilities, and leveraging resources available through those stakeholders. In September 2010, the WSU Extension Energy Program received honorable mention for Exemplary State Energy Programs from the American Council for an Energy-Efficient Economy (ACEEE). Of the 18 programs that received awards or honorable mentions from ACEEE—five programs received a top award, 10 received honorable mentions, and three of the 18 programs were emerging programs. Only two of the 18 were industrial programs—the WSU Extension Energy Program and Texas Industries of the Future.

The team has been active in supporting, attending and presenting at regional energy efficiency events such as attending and presenting at the 3rd Annual Northwest Industrial Energy Efficiency Summit in January 2011, and attending the Northwest Food Processors Association Annual Expo in January 2011 and the Western Governors Association’s Industrial Summit in Boise, Idaho in March 2011.

The team also has facilitated 50 industrial best practices trainings with more than 1,000 attendees, many coming directly from industry. While 11 of these trainings were funded and conducted by WSU technical experts and DOE Qualified Specialists, many of these trainings were co-hosted and facilitated by the WSU Extension Energy Program as a result of the contacts and relationships built through the program.

Project Partners - continued

Pacific Power, Medford, OR
 University of Washington Industrial Assessment Center, Seattle, WA
 Washington Department of Commerce, Olympia, WA
 Washington Department of Ecology, Olympia, WA
 Washington Manufacturing Services, Mukilteo, WA

Benefits

- Reduced energy intensity and carbon emissions at medium- and large-sized industrial plants in the Pacific Northwest.
- Identification of low-cost solutions that will improve energy efficiency by up to 15%.
- Introducing a creation of a sustainable state-sponsored program in Montana and Oregon dedicated to industrial energy efficiency, while strengthening the programs in Oregon, Idaho, and Washington.
- Increasing awareness about the benefits of reducing energy use and available resources.
- Collaborating with regional stakeholders to strategically plan for further improvements in energy efficiency.

Applications in Our Nation’s Industry

This project will establish a partnership among energy service providers, academia, government, utilities and energy/industry associations that will continue to help reduce the energy intensity of industrial manufacturers in Montana, Idaho, Oregon and Washington.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy’s Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

By leveraging settlement funds WSU received from the state, the project has provided incentive funds for dozens of electric and thermal efficiency improvements at industrial sites in Washington that, when complete, are estimated to achieve energy savings of more than 51,200 million Btu, 26,338,465 kWh, and nearly \$1.5 million in savings.

For Additional Information:

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