

Fact Sheet for Industrial Facilities

May 2012

Overview

Public utilities in the Pacific Northwest serve more than 2,200 megawatts of industrial load, making industrial sector users a vitally important factor in BPA's energy efficiency programs. BPA has a long history of supporting and advancing energy efficiency within the industrial sector throughout the northwest.

BPA launched the Energy Smart Industrial (ESI) program to assist BPA utility customers and their industrial end users with increasing cost-effective energy savings to support the efficiency goals as found in the Northwest Power and Conservation Council's Sixth Power Plan. The program is the primary mechanism for BPA utility customers to achieve industrial load energy savings. The ESI program encompasses all BPA-offered industrial sector programs moving forward, and is designed to bring regional consistency to BPA utility customers and their end users.

BPA industrial sector staff and dedicated engineers provide overall ESI program management as well as project technical review and approval. The BPA program partner Cascade Energy, Inc., and its subcontractors, Evergreen Consulting and Triple Point Energy, Inc., work with BPA and utilities to provide a variety of services to regional utilities and their industrial end users. These services include project development, marketing, Technical Service Proposal (TSP) consultant contracting, and implementation of industrial sector energy efficiency acquisition.

The ESI program works with industrial facilities through their local public utility to deliver cost-effective energy savings in all industrial market segments. There are a wide variety of program options for all industry sizes and budget levels. Through their public utility's participation in the ESI program, industrial end users can save money and energy, and may even increase productivity and profitability.

The ESI program provides technical expertise and resources to assure industrial projects meet quality assurance standards and deliver the highest possible return on investment. ESI technical experts work with facilities to build customized solutions that protect privacy and minimize impact to production process. ESI offers technical expertise in industries including pulp and paper, wood products, food processing, high tech, data centers, water/wastewater, mining, and more.

Reimbursements

Reimbursements may be available for qualifying new and retrofit projects based on verified energy savings. Contact your local utility for more details and for availability. In addition, projects may also qualify for federal, state, and/or local tax credits.

ESI Program Components

ENERGY SMART INDUSTRIAL PARTNER (ESIP): The ESIP is a dedicated industrial energy efficiency expert assigned by the ESI program to serve as a single point-of-contact for utilities, coordinating the ESI program and its many resources. They aid participating utilities in achieving the goals and meeting the needs of their conservation program. In addition to providing technical expertise and other assistance to utility staff, they can also market, upon request, the ESI program to industries and facilitate the development and implementation of industrial projects. ESIPs are provided, assigned, and managed by the ESI program. Utilities shall continue to be the face of industrial energy efficiency and will define the “rules of engagement” for ESIP interaction with industries.

ENERGY MANAGEMENT: Energy Management is a pilot component of the ESI program that addresses the opportunities to acquire energy savings through improved operations and maintenance (O&M) and overall energy management practices. There are three core features of the pilot:

- 1. Energy Project Manager Co-funding** – The purpose of Energy Project Manager co-funding is to increase end user management and engineering manpower devoted to electrical energy projects/ activities and increase the number of industrial projects submitted. Participating industries set an annual (verifiable) energy savings goal and receive co-funding proportionate to that goal (subject to minimum and maximum co-funding levels). If the end user meets these verified energy savings goals on schedule, co-funding continues. If however, milestones are missed, co-funding could be suspended and/or ultimately ended.
- 2. Track and Tune Projects** – Track and Tune is designed to financially and technically help the end user implement no-cost/low-cost improvements, and install a tracking system that allows for monitoring of energy performance and savings over multiple years. Track and Tune centers on O&M savings, instead of large capital projects. To achieve solid savings on industrial projects, Track and Tune continuously tracks the performance of the area of focus (e.g., whole facility, system, or process). This tracking establishes the baseline, shows the effect of the initial tune-up effort, and tracks the performance over the long haul. This methodology transforms industrial O&M improvements into a reliable, verifiable source of savings.
- 3. High Performance Energy Management** – High Performance Energy Management provides training and support that allows industrial facilities to integrate energy management into their core business practices. High Performance Energy Management is the application of the principles and practices of continuous improvement to energy management within an end user’s organization.

SMALL INDUSTRIAL MEASURES: Small industrial measures provide a cost-effective mechanism to handle specific efficiency measures when the energy savings for a project are small in relation to typical industrial projects. This allows the ESI program to target small-scale industrial facilities and/or small systems that are historically underserved by traditional industrial efficiency programs. Currently, small compressed air (<75 hp) measures fall under the Small Industrial Measures component. Additional technologies (e.g., refrigeration, variable frequency drives, etc.) may be added in the future.

ENHANCED LIGHTING: Enhanced Lighting is considered an extension to the existing Northwest Trade Ally Network, with focus of driving more industrial lighting projects. Industrial Lighting Specialists are assigned to participating utilities to assist with these efforts.

ENHANCED TECHNICAL SERVICE PROVIDERS (TSP): This includes expansion and enhancement of traditional TSP services, including quick-response time and materials work, and BPA funding of scoping assessments, detailed assessments, and measurement and verification activities where appropriate.

For more information, please contact your Energy Smart Industrial Partner
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The BPA Energy Smart Industrial program is sponsored by your local public utility and the Bonneville Power Administration.

Learn more at www.EnergySmartIndustrial.com