New Energy Savings Program Helping Utah's Biggest Energy Consumers Slash Usage

Utah Industrial Energy Efficiency Program addresses energy consumption at the heart of the matter

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Industrial firms consume massive amounts of energy every year. As Governor Herbert launches Utah's 10-Year Strategic Plan, to chart a path for Utah's energy future, the Utah Industrial Energy Efficiency Program (IEE) is doing its part to provide training, technical support, and recognition for Utah industrial firms taking action to improve energy efficiency and reduce energy use.

"Energy efficiency improvements are the low hanging fruit helping Utah's industrial companies significantly reduce their energy costs, while helping them stay competitive," comments Paul Greenwood, Manager of the IEE Program.

According to the U.S. Department of Energy, Utah's industrial manufacturing sector consumed a whopping 224.9 trillion British thermal units (Btu) of energy, or 27.9 percent of statewide energy consumption in 2007.[1] Industrial manufacturing is a vital sector of Utah's economy, providing the state with 161,324 jobs and supplying $322,966 million worth of goods.

As Utah's industrial sector expands, it is imperative to find opportunities to become significantly more energy efficient, the impacts of which will be felt across all sectors. The goal of the IEE program is simple: provide training and technical assistance to help industrial companies reduce their energy usage and improve competitiveness. "Utah families are incorporating more energy efficiency into their everyday lives through help from utility rebate programs, but significant potential remains in the industrial sector. The IEE works with industry partners to improve the energy efficiency of companies' unique energy intensive processes," states Chris Tallackson of the Utah State Energy Program.

The first three companies to join the collaborative IEE program and take strong steps to reduce energy consumption are medical technology company BD Medical, food and agricultural giant, Simplot Phosphates, and ATK Launch Systems, which recently completed a rocket test for NASA.

"Even though BD Medical in Sandy, Utah has been pursuing energy efficiency for years, with considerable success, we are still finding more opportunities. For example, after several engineering and maintenance associates participated in the recent Compressed Air training provided by the Utah IEE program, they identified and are beginning to implement additional short, medium and long term compressed air energy savings activities in the spirit of continuous improvement. The training was key to engaging these associates" according to Travis Anderton from BD Medical.

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[1] U.S. Department of Energy. *Industrial Technologies Program: Utah Industrial Resource Fact Sheet.* http://www1.eere.energy.gov/industry/states/pdfs/utahindustrialresourcefactsheet.pdf

Energy Efficiency Projects Through IEE Program

By the end of 2010, Simplot had implemented several highly impactful energy efficiency measures. One of the first measures taken at Simplot dealt with water reduction. The proposed energy efficiency measures for this project are aimed at both reducing the water use in the plant and more efficiently providing the required water for manufacturing processes. While reducing water use in the mill, the majority of the energy savings were realized at the barge pumps that supply water to the entire facility. The savings measures included variable frequency drives on various pumps, installing a cyclone particle separator over the hydro-sizer, water reuse, and improved automation techniques. The project resulted in saving 6,430,228 kilowatt-hours annually, $327,008 in cost savings annually. The project's initial investment was repaid within 1.5 years.

BD Medical operates a large manufacturing facility in Sandy, Utah that makes products used in the medical industry. The plant has been aggressively identifying energy efficiency opportunities since 2002. One recent project included the expansion of the compressed air system. The efficiency improvements include heated blower-purge, and dew-point control of the air dryer. The project resulted in saving 446,800 kilowatt-hours annually, $19,548 in cost savings annually and had a payback of 2.8 years. By integrating energy efficiency into new facility, process and equipment design, BD has reduced annual electricity consumption by over 17 million kWh while undergoing significant plant and production expansions.

The ATK lighting project consisted of upgrading approximately 92 fixtures with new high efficiency lighting. The previous design included metal halide (MH) fixtures in shop areas and T8 fixtures in file and tool areas. Proposed improvements included metal halide pulse start (MHPS) fixtures with the removal of unnecessary T8 lighting. Further additions included the installation of Passive Infrared Sensors (PIR) in the shop areas and file rooms. These sensors allow the lighting to be controlled off of occupancy rather than manual switches. This project has provided the means for ATK to remain technologically up to date while striving to be operationally viable in their future of energy use. The project resulted in saving 72,877 kilowatt-hours annually, $4988 in cost savings annually and has a payback of 3.6 years.

Company Project Quick Facts and Annual Benefits

Company	Energy Efficiency Project	Location	Energy Savings	Cost Savings	Metric Tons of CO2 Saved	Simple Payback	Utility Incentives
Simplot	Water	Vernal, UT	6,430,228 kWh	$327,008.65	3,462	1.5 years	$390,762.4
BD Medical	Compressed Air System	Sandy, UT	446,800 kWh	$19,548	241	2.8 years	$44,699
ATK Launch Systems	Lighting	NA	72,877 kWh	$4,988	NA	3.6	**NA**