



P.J. Noyes Saves Energy as a Result of the Business Energy Efficiency Program (BEEP)

PROJECT DESCRIPTION

A comprehensive energy audit was conducted for P.J. Noyes Company under the Division of Economic Development's Business Energy Efficiency Program (BEEP). P. J. Noyes' headquarters and manufacturing plant is located on Bridge Street in Lancaster, NH. The Company employs more than 100 workers at light manufacturing and pharmaceutical packaging in their 30 year old metal building.

PROJECT GOAL

The goal of the energy audit was to investigate, identify and analyze potential energy saving and renewable energy opportunities.

PROJECT FUNDING

This audit was funded by the State of NH Business Resource Center's (BRC) Business Energy Efficiency Program based on a grant award from ARRA (American Recovery and Reinvestment Act)-State Energy Program funds.



NH BUSINESS RESOURCE CENTER

an office of the NH Division of Economic Development

Contact the BRC by calling 603.271.2341 or visit nheconomy.com for information on how your business can benefit.

BEEP ENERGY AUDITS

Audits have been completed for the following NH companies:

- Androscoggin Valley Hospital, *Berlin*
- Bacon Felt, *East Rochester*
- Blue Seal Feeds, *Bow*
- Capitol Center for the Arts, *Concord*
- Concord Hospital, *Concord*
- Concord Litho, *Concord*
- Grappone Conference Center, *Concord*
- Hypertherm, *Hanover*
- LaPerle's IGA, *Colebrook*
- Lentex Corp., *North Walpole*
- NH Ball Bearings, *Laconia*
- North Country Council, *Bethlehem*
- Pemi-Valley Laundry, *Plymouth*
- P.J. Noyes, *Lancaster*
- Pilgrim Foods, *Greenville*
- Plymouth Village Water & Sewer, *Plymouth*
- River Woods - The Ridge, *Exeter*
- Schaefer Rolls, *Farmington*
- Spaulding Composites, *Rochester*
- The PLUS Company, *Nashua*
- Timken, *Keene & Lebanon*
- Two C Pack Systems, *Nashua*
- Velcro USA, *Manchester & Somersworth*
- Vitex Extrusion, *Franklin*
- YMCA Allard Center, *Manchester*

The energy audits were conducted by GDS Associates, Inc., an engineering and consulting firm with an office in Manchester. The audit reports include sections on the following:

- Energy Usage Assessment
- Utility Bill Analysis
- Detailed Site Inspection
- Measure Analyses and Recommendations Development
- Energy Efficiency Financing Opportunities, Utility Programs, Grant Availability and Tax Incentives

“The recommendations provided by the energy audit are very helpful and will certainly help the long-term maintenance and upkeep of this building. We will be implementing some of the recommendations right away.” – Kim Perry, maintenance manager, P.J. Noyes Company

“NH businesses receive unbiased analysis of energy saving investment opportunities,” stated Bob Reals, Business Energy Efficiency Manager for the NH Division of Economic Development.

GDS Associates performed an in-depth field survey of the facility and conducted an analysis of four targeted Energy Efficiency Measures (EEM).

THE RESULTS

The estimated annual savings from the four EEM’s analyzed is 88,441 kWh. With a total installed cost of approximately \$45,000 – resulting in a simple payback of 3.6 years before incentives.

ID	Energy Efficiency Measure	Electricity Savings (kWh/yr)	Cost Savings (\$/yr)	Installed Cost (\$)	Simple Payback (years)
COMPRESSED AIR MEASURES					
EEM-CA1	New Air Compressor with Variable Speed Control	60,000	\$8,400	\$30,000	3.6
EEM-CA2	Lower CA System Pressure to 103 psig from 113 psig	7,000	\$980	\$500	.5
EEM-CA3	Add 500 Gallon CA Receiver	15,241	\$2,134	\$3,500	1.6
HEATING AND COOLING MEASURES					
EEM-H2	Replace Strip Curtains with Rapid Roll Doors in LP Room	6,200	\$868	\$11,000	12.7
TOTALS		88,441	\$12,382	\$45,000	3.6
Total Current Usage		977,133	\$191,643		
Savings Percentage		9.1%	6.5%		

In addition to the four highlighted EEMs the report also included a look at; building envelope upgrading opportunities, HVAC systems, lighting, process equipment, process cooling, and water usage.

The NH Business Resource Center (BRC) offers various forms of assistance to companies with energy efficiency and renewable energy matters.

One way that BRC works with businesses is by providing energy audits to help inform owners of ways they can save energy, money and often productivity through implementing energy efficiency upgrades.

The audit program is intended to identify energy efficiency opportunities, calculate cost savings from improved energy efficiencies and then assist companies with finding incentives, rebates and financing in order to implement the upgrades as soon as possible.



STATE OF NEW HAMPSHIRE
American Recovery and Reinvestment Act

