

CASE STUDY: COMPRESSED AIR SYSTEM

SYSTEM TYPE: Compressors, Controls

PROJECT FINANCIALS

- Total Turnkey Installed Cost: \$ 79,401
- Annual Energy Cost Savings: \$ 27,306
- Simple Energy Funded Capital Payback: 2.9 years
- Average Project IRR: 32%
- CO2 Equivalent Reduction : 262 tCO₂e (Natl. Avg. Emission Rate)

MANUFACTURING & INJECTION MOLDING Facility Installs New Equipment and Decreases End Use of Compressed Air—Saves \$27,000 Annually

System Description

- Five rotary screw oil lubricated compressors
- Total of 450 HP installed
- Compressors were located in one central area
- Compressors were connected into a common header
- Compressors were controlled on individual pressure set points

System Opportunities

- The compressed air system supplied air to the various production and assembly equipment throughout the facility
- The analysis looked at the generation of the air by the compressors, the distribution system, and the utilization of the air by the end use equipment

Project Description

- Installed compressor sequencing controller
- Installed additional storage capacity
- Installed an air flow controller in conjunction with additional storage capacity

Project Benefits

- New Sequencing controller
- New flow controller and storage tank
- Increased control of system pressure fluctuations
- Decreased end use of compressed air
- Optimization of overall operation
- Reduction in energy usage and operating cost



Plant Profile

- Manufacturing facility, injection molding
- Production areas
- Assembly areas
- Warehouse areas

Key Benefits

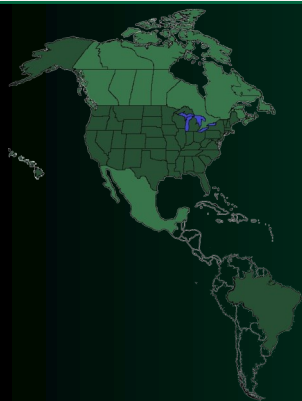
Annual Cost Savings	\$ 27,306
Carbon Reductions	262 tCO2e (Natl Avg. Emission Rate)
Payback	2.9 Years
Project IRR	32%

Financial Data

Investment	\$ 79,401
System	Compressors, Controls
Life Expectancy	N/A
Incentives/Rebates	N/A
Payback Period	2.9 Years



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