

Manufacturing Plant Achieved \$50,000 in Annual Savings from Energy Efficiency and Procurement Studies

Studies focusing on how energy is procured and used not only save energy but also improve productivity



Photo: siccode.com



Industrial

Property Profile

- Location: Bourbonnais, IL
- Square Footage: 126,000
- Year Built: 1979

Services

- Rebates & Incentives
- Feasibility Study
- Energy Benchmarking
- Mechanical System (HVAC)
- Project Construction Management
- Energy Procurement

Project Achievements

- Annual Utility Savings: 394,000 kWh
- Annual Utility Cost Savings: \$35,000
- Percent Energy Reduced: 21%
- Demand Saved: 4kW
- Additional Annual Procurement Cost Savings: \$15,000

Project Highlight

Created and implemented energy master plan that included replacement of process equipment and energy cost reduction

HENRY (ARDEX), a manufacturer of premium adhesives, hired EN-POWER GROUP to develop and implement a comprehensive energy plan for their 126,000 sqft industrial facility in Bourbonnais, Illinois. This wide-ranging study incorporated energy benchmarking, energy auditing, and utility and tariff analysis to create an energy master plan for the facility.

To help HENRY identify the most cost-effective energy conservation measures for its manufacturing facility, EN-POWER GROUP's first step was to understand how the property used its energy. We began by performing energy benchmarking, a process that compares a building's current energy usage against its past usage as well as against buildings of similar size and type. The energy benchmarking results revealed the facility consumed higher levels of energy than comparable properties, and

the on-site energy audit indicated process equipment and lighting could be upgraded to reduce energy usage.

Using the knowledge gained from our energy benchmarking and auditing work, our engineers helped HENRY enter into a more favorable energy contract. Next, our engineers met with HENRY managers to help create an energy master plan with the goals of selecting cost-effective upgrades that maximized the use of available incentives. HENRY replaced its energy-intensive metal halide lighting with high-efficiency fixtures and installed variable frequency drives (VFDs) on air compressor motors to improve operating efficiency. These measures decreased peak demand, decreased operating costs, and increased manufacturing productivity.