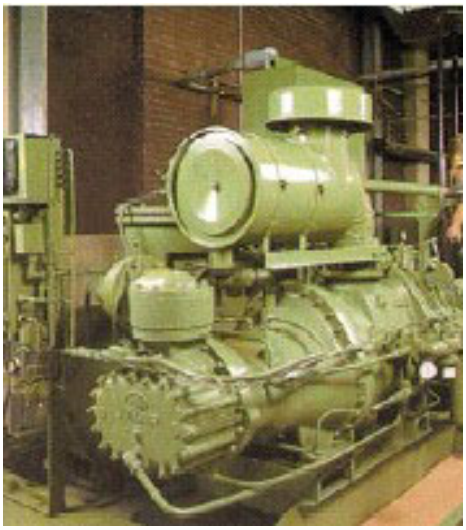
ENERGY PROJECT CASE STUDY
COMPRESSED AIR SYSTEM



Financials

- **Total Turnkey Installed Cost: $79,401**
- **Annual Energy Cost Savings: $27,306**
- **Simple Capital Payback: 2.9 years**
- **Project IRR: 32%**

Description of Facility

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

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/Issues

- 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

Project Description

- Installed compressor sequencing controller
- Installed additional storage capacity
- Installed a air flow controller in conjunction with additional storage capacity
- Installed interlocked shut off valves on production machines

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