



DJ Fabricators

BUSINESS
Metal Fabrication

TOWN
Ipswich

PROJECT:
Compressor Replacement

TOTAL PROJECT COST
\$14,035

COST SAVINGS
\$5,832

SIMPLE PAYBACK
2.4 years



DJ Fabricators was generating compressed air using a single CompAir-Leroi model 178CK, 115 psig, 40 horse power, air-cooled, oil-flooded rotary vane compressor with modulation controls and a rate capacity of 155 cfm. Able Air of Hudson, NH and Kaeser Compressors studied the facility's needs and recommended the replacement of the existing system with a smaller, more efficient 100 psig, 15 horsepower rotary screw compressor with dual controls and a rated capacity of 71 cfm.

TECHNICAL ANALYSIS

DJ Fabricators provided Ipswich Utility's Green Opportunity (GO) team with the specifications for the existing compressed air equipment and the proposed upgrade. The team reviewed the technical data for accuracy and prepared a cost-effectiveness evaluation based on estimated energy savings.

Energy Efficiency Measure	Compressor Electric Savings (kWh)	Compressor Demand Savings (kW)	Dryer Electric Savings (kWh)	Cost Savings (\$/year)	Cost of Installation (\$)	Simple Payback (years)
Compressed Air Retrofit	40,658	20	937	\$5,823	\$14,035	2.4

INCENTIVE CALCULATION:

Ipswich Utility's GO program is designed to offer incentives up to 50% of the project's costs with an incentive cap of \$10,000. The incentive payment cannot reduce the project below a one-year payback. Based upon the project's cost and the program's guidelines, Ipswich was able to offer an incentive of \$7,018. DJ Fabricators implemented their project in June 2012.

