

CASE STUDY

Consulting, Engineering and Installation of Renewable and Energy Efficiency Systems

Air Compressor Upgrade Services

SITUATION

Barry Industries is an internationally renowned supplier of electronic components to the electronics and communications markets. As they have high energy use in their manufacturing processes, Barry's team engaged Groom Energy to identify opportunities for making their Compressed Air System, a key part of the manufacturing process, more energy efficient.



STRATEGY

Groom Energy Engineers studied the existing systems and identified several ways to cost efficiently upgrade the equipment and recommission the entire compressed air system. The key part of the upgrade included installing a premium efficiency 50 horsepower rotary screw, variable speed compressor system from Atlas Copco. In addition, Groom Energy gained economic support for this project from the local utility by conveying the results of their study to the utilities engineering team.

RESULTS

Groom Engineers, in conjunction with one of the World's leading Air Compressor manufacturers Atlas Copco, installed the new system, improving energy efficiency. Barry Industries expects to reduce 190,000 kilowatt hours annually from their operational costs and reduce their emissions by 188,000 pounds of carbon per year directly related to this investment.

Air Compressor Upgrade Cost Analysis

Annual Electrical Savings	\$29,610
Utility Incentive	\$11,160
Year One Total Savings	\$40,770
Installed Cost	\$39,390
Return on Investment	104%

