

# Case Study



## GROUND EFFECTS, LTD.

### PROJECT OVERVIEW GROUND EFFECTS, LTD.

With facilities in the U.S., Canada and Mexico, Ground Effects Ltd is a leading supplier of interior and exterior accessory components for the automotive industry. A reliable supply of compressed air is critical to maintaining production volumes, often under demanding conditions. Ground Effects contacted The Energy Alliance Group (EAG) of Michigan to develop and implement a plan to improve the performance of the Warren, MI facility's compressed air systems. The objectives were to reduce overall operational costs, maximize uptime and efficiency and provide a back-up system.

#### Technologies (New vs. Old)

Before documenting specific recommendations, EAG worked closely with compressed air partner Air Technologies to quantify existing operating parameters. System demand was recorded over several days of production, and a detailed inspection of the existing hardware was conducted. Recommendations identifying equipment updates and repairs were generated, and a new primary compressor unit tailored to the site's needs was specified.

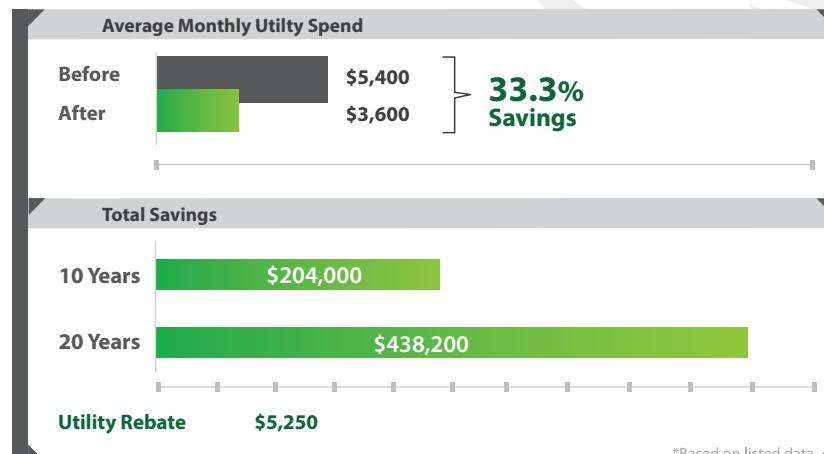
An Atlas Copco rotary screw variable speed drive compressor was installed, providing an efficient and quiet primary source of air. Additionally, new particulate and coalescing filters, drain valves and piping systems were installed on site. The existing compressor was retained as a back-up unit and serviced to operate at its designed peak efficiency.

#### EAG

By selecting optimal technologies for Ground Effects, EAG completed an air compressor system upgrade that will reduce energy consumption by 31%. At the Warren, MI facility, installing a ducted compressor heat recovery system provided additional energy savings. The upgrade also qualified for utility rebates of \$5,250 for the compressed air and heat recovery systems



After



Before



Ground Effects, Ltd.