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**Customer:**



**Location:**  
Elkhart, Indiana



**Customer Description:** Manchester Tank, Elkhart, Indiana, is a privately-held leading manufacturer of low-pressure vessels for propane, air, refrigerant, and industrial applications in North America and Australia.

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**CHP Application:**

System features a natural gas-fueled power source, operating in parallel with the utility grid and offsetting an average of 70 kW of monthly billing demand and 16,000 kW-hr of plant power consumption each month. To boost CHP system efficiency, the 450°F engine exhaust stream is routed directly to the intake plenum of the circulating blower inside the 400°F powder coat cure oven. In order to provide the customer with emergency standby power to critical plant processes, a 130 kW natural gas-fueled backup generator is installed at the main electric distribution panel.

**Major Equipment:**

- (1) 70 kW Ingersoll-Rand Microturbine
- (1) Direct Vent Heat Recovery
- (1) 130 kW Ingersoll-Rand Backup Generator

**Benefits:**

Electrical energy savings aside—the routing of excess heat from the generator to the cure oven substantially reduces fuel consumption at the existing process burner. Backup generator provides reliable continuous power to critical loads in the event of grid outages and disturbances.