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Customer:

Vestil Manufacturing

Location:

Angola, Indiana

Customer Description: Vestil Manufacturing is an industry leader in the manufacturing and distributing of materials-handling equipment, providing a complete product range at competitive pricing. They offer a wide variety of Dock Equipment, Ergonomic Solutions, Drum Handling Equipment, Material Handling Equipment and much more to help fit their customers' applications. Vestil supplies an extensive line featuring over 5,000 different items—many of which are in-stock and ready for immediate shipment.

CHP Application:

This CHP system boasts two natural gas-fired power sources which operate in parallel with the utility grid, offsetting an average of 140 kW of monthly billing demand and 24,000 kW-hr of plant power consumption each month. To increase CHP system efficiency, the 450°F engine exhaust streams are routed directly to the intake plenum of the circulating blower inside the 350°F powder coat cure oven. In an effort to further improve plant efficiency, additional heat energy from the cure oven and dryoff oven exhaust streams is being captured for use at adjacent plant processes.

Major Equipment:

- (2) 70 kW Ingersoll-Rand Microturbines
- (2) Direct Vent Heat Recovery Systems
- (1) Thermal Fluid Loop
- (1) Custom Designed Heat Exchanger

Benefits:

Operation of this system results in decreased electrical energy costs and pollution reduction. Recycling of waste heat from the generator, as well as from the cure and drying ovens, substantially reduces fuel consumption at existing process burners.