

Phoenix Contact

CCHP - MicroTurbine Tri-Generation

Middletown, PA | 360,000 sq ft. affected | \$3.4 Million



Project Info

Gatter & Diehl engineers an alternative clean energy solution for Phoenix Contact.

The new one (1) megawatt Combined Cooling, Heating and Power (CCHP) Plant at Phoenix Contact produces approximately 60% of the power, cooling (300 tons) and heating (5000MBH) needs for Phoenix Contact from a state of the art Capstone microturbine system.

The microturbines are fueled by natural gas, a Pennsylvania clean energy natural resource. The entire system is automatically controlled via VFD pumps, variable microturbine ramping, continuous measurement of heating and cooling BTU demands throughout the facility and power monitoring. The 1 megawatt capacity is always available in case of utility power loss. Protocols were developed whereby the microturbine power can be initiated either automatically or manually. This allows Phoenix Contact to maintain vital power to certain manufacturing, production and distribution processes and avoid otherwise costly downtime.

Services Provided

- ▶ Financial Analysis & Feasibility
- ▶ Energy Modeling
- ▶ Plan & Specification Development
- ▶ Grant Writing, Prep and Submission (\$975k)
- ▶ Grant Administration
- ▶ Utility Interconnection Coordination
- ▶ FERC Qualifying Submission
- ▶ Bidding and Contractor Section Process
- ▶ Construction Contract Preparation
- ▶ Construction Contract Administration
- ▶ Construction Management
- ▶ Awarded "Governors Environmental Excellence"

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