

375 MW GAS TURBINE PEAKING FACILITY

Client:

- Midwest Power, LLC
- Constellation Energy

Project Location:

New Berlin, WI

Capacity:

375 MW

Approximate**Installed Project**

Value: \$200,000,000



PCI provided a conceptual design of a 375 MW gas turbine peaking facility and 345 kV substation and interconnect for a major international energy service company.

The scope of work included:

- Site selection for new facility
- Prepared applications for all environmental and regulatory permits
- Coordination of rezoning of site
- Designed conceptual drawings for all systems
- Selected all major equipment including 7 x 53 MW gas turbine units
- Created conceptual design and coordinated the 345 kV interconnect facility with the local utility
- Developed substation layout and configuration
- Drafted preliminary design of substation structure and equipment
- Prepared electric interconnect design input for Project's regulatory permit applications
- Developed and designed relay and protection system
- Prepared cost estimates for equipment and construction
- Completed fuel study, which identified alternative fuel supply options

