

320 MW GAS TURBINE PEAKING FACILITY

Client:

- Midwest Power, LLC
- DTE Energy Services

Project Location:

Crete, Illinois

Capacity:

320 MW

Approximate**Installed Project**

Value: \$150,000,000



PCI was selected by a major international energy services company to provide the conceptual design of a 320 MW gas turbine peaking project, its associated 345 kV substation and the electrical interconnect facilities.

The scope of work included:

- Selected the site for a new gas fired power generation facility and coordinated the rezoning activities
- Prepared conceptual design drawings for all plant systems
- Selected all major equipment including 4x80 MW gas turbine generator units
- Prepared the conceptual design and coordinated the 345 kV interconnect facility with the local electric utility
- Developed substation layout and configuration
- Prepared the preliminary design of the 345 kV substation structure and equipment
- Provided design coordination with electric utility regarding the 345 kV interconnect requirements
- Designed and developed relay/protection system
- Prepared cost estimates for all plant equipment and construction
- Evaluated alternative financing structures for project

