

We Energies' generating system



NATURAL GAS

Paris Generating Station

*The first combustion turbine site
on the We Energies system.*



Location:

This plant occupies 107 acres of land in Union Grove, Wis., next to the Paris Substation.

Type of Plant:

Natural gas-based, peak-load plant used during hours of high demand.

Initial Cost:

\$105 million

Units:

4 units

Year in Service:

1995

Generating Capacity:

Units 1-4: 100 megawatts per unit

Total Net Generating Capacity:

400 megawatts

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Contribution to Total System Electric Energy Production Capability:

Less than 1 percent

Voltage:

Generator: 13,800
Step-Up Transformer: 138,000

Fuel:

Primary Fuel: Natural gas
Secondary Fuel: #2 low-sulfur fuel oil

Fuel Handling:

Natural gas: Pipeline
Transportation: Fuel oil tanker trucks
Storage: 1,500,000 gallons
Tank size: 40 ft. high and 80 ft. in diameter

Average Fuel Use:

Natural gas: 1,200,000 cubic ft. per hour per unit
Fuel oil: 9,000 gallons per hour per unit

Emission Control:

Demineralized water injection for NOx control

Storage:

1,200,000 gallons
Tank size: 2 tanks 30 ft. high and 60 ft. in diameter

Water source: Deep well

Control Room:

One operator monitors and controls all the major functions in the plant. The Ovation computer system controls start-up, operation and shutdown of the units and monitors unit conditions during all phases of operation. Start-up can be accomplished by remote control from the system control facility in Pewaukee, Wis., and from the Paris Generating Station.