

We Energies' generating system



NATURAL GAS

Paris Generating Station

*The first combustion turbine plant
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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Paris Generating Station

Fuel:

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

Fuel handling:

Natural gas: Pipeline
Transportation: Fuel oil tanker trucks
Storage: 1.5 million gallons
Tank size: 40 feet high and 80 feet in diameter

Average fuel use:

Natural gas: 1.2 million cubic feet per hour per unit
Fuel oil: 9,000 gallons per hour per unit

Emission control:

Demineralized water injection for NO_x control

Storage:

1.2 million gallons
Tank size: 2 tanks, 30 feet high and 60 feet in diameter

Water source: Deep well

Control room:

All major functions in the plant are controlled by operators with computer support to continuously monitor and report on pressures, temperatures, flow rates, etc. In addition, the computer aids in start-up, shutdown, load adjustments and information for future reference.