

We Energies' generating system



NATURAL GAS

Germantown Power Plant

The first "peaker" plant built by We Energies to be used primarily during times of high demand.



Location:

This plant occupies 75 acres of land in Germantown, Wis.

Type of plant:

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

Initial cost:

\$38 million

Units:

- a) 4 units, each with 2 fuel oil turbines and 1 generator
- b) 1 unit with 1 natural gas turbine

Year in service:

- a) 1978
- b) 2000

Generating capacity:

Units 1-4: 63 megawatts per unit
Units 5: 93 megawatts

Total net generating capacity:

345 megawatts



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Fuel:

Primary fuel: Unit 5 - natural gas
Secondary fuel: #2 low-sulfur fuel oil
Units 1-4: low sulfur fuel oil

Fuel handling:

Natural gas: Pipeline
Transportation: Tanker trucks
Storage: 600,000 gallons of storage tank capacity
Tank size: 11 feet deep and 100 feet in diameter

Average oil use:

20,000 gallons per hour at full load

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.