

We Energies' generating system



NATURAL GAS

Germantown Power Plant

The first "peaker" plant built by We Energies to be used primarily during times of peak 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 gas turbines and 1 generator
- b) 1 unit with 1 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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Voltage:

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

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 ft. deep and 100 ft. in diameter

Average Oil Use:

20,000 gallons per hour at full load

Control Room:

One operator monitors and controls all the major functions in the plant. Start-up also can be accomplished by remote control from the system control facility in Pewaukee, Wis.