

# 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 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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**Fuel:**

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