



# 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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### Contribution to Total System Electric Energy Production Capability:

Less than 1 percent

### 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: 10 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.