



Chuck Lenzie Generating Station



Location: 30 miles North of Las Vegas, Nevada

Peak Generating Capacity: 1,102 Megawatts

Plant Description: The Chuck Lenzie Generating Station is a clean-burning natural gas-fueled power plant that is located in Southern Nevada, north of Las Vegas. It is the largest generating plant in Nevada.

The plant utilizes two side-by-side power production "blocks." Both groups use two highly efficient General Electric 7FA combustion turbines to produce electricity. Additionally, the exhaust from the four turbines is recycled to produce steam for two General Electric D-11 steam turbines to make additional electricity for NV Energy customers.

The Lenzie plant went into service in 2006. It was partially built by Duke Energy, and NV Energy purchased it in 2004 and completed the construction on time and under budget in 2006.

Unlike conventional power plants that use substantial amounts of water for cooling, the Chuck Lenzie Generating Station uses a six-story-high dry cooling system. Similar to a car radiator, 100 massive fans (32 feet in diameter) are used to condense the steam back into water to be reused in the plant.

Employment: Approximately 30 employees

Interesting Features:

- The plant can produce enough electricity to serve approximately 665,000 Nevada households.
- The plant's Air Cooled Condenser system (dry cooling) is one of the largest such installation in North America. The Lenzie station also uses a water clarifier system that recaptures and recycles about 75 percent of the used water.
- Compared to a conventional plant that uses approximately 650 gallons of water for each megawatt of energy generated, the Lenzie station makes about the same amount of electricity with a mere 14 gallons of water!
- NV Energy annually provides approximately \$34 million in tax revenue to Clark County that benefits general county operations, schools, libraries, and other civic activities.



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