

# 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.

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. Unlike conventional power plants that use substantial amounts of water for cooling, the 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.

The Chuck Lenzie Generating Station is part of a 2,250-megawatt three-plant complex, which includes the Harry Allen and Silverhawk Generating Stations.

**Employment:** Approximately 10 operational, 42 maintenance and a small number of leadership, engineering, safety and administration employees are shared across the tri-plant complex.

## Interesting Features:

- The plant can produce enough electricity to serve approximately 665,000 Nevada households.
- The dry-cooling system enables the combined-cycle plant to make the same amount of electricity with a mere 7 percent of water used by conventional water-cooled facilities. And, for the water used, the facility uses a waste water treatment system that recaptures and recycles about 75 percent of the water used in the power production process.
- Employees at the station received a Safety Achievement Award from the Edison Electric Institute for working 250,000 work-hours with no days away from work.
- NV Energy annually provides approximately \$32 million in tax revenue to Clark County that benefits general county operations, schools, libraries, and other civic activities.

# Generating Resources

