

# Las Vegas Generating Station



6226 W. SAHARA AVE.  
LAS VEGAS, NV 89146



**Location:** North Las Vegas, Nevada

**Peak Generating Capacity:** 272 Megawatts (summer capacity)

**Plant Description:** The Las Vegas Generating Station is a clean-burning natural gas fueled power plant that joined the NV Energy fleet in 2014.

The plant's initial power block is a "one-on-one" 48-megawatt combined-cycle resource that was commissioned in 1994. It uses a General Electric LM6000 turbine generator to generate electricity and uses a Foster Wheeler Heat Recovery Steam Generator to convert the turbine's hot exhaust gases to steam to make additional electricity with a Dresser Rand steam turbine generator. This power block was built as a "Qualifying Facility" under the Public Utility Regulatory Policies Act of 1978 and generated electrical power for Nevada customers and hot water to warm a nearby greenhouse. The greenhouse is owned by an independent grower and is no longer associated with Las Vegas Generating Station.

In 2003, two additional "two-on-one" combined-cycle power blocks were added. Each 112-megawatt power block consist of two General Electric LM6000 gas turbine generators that use Innovation Steam Technology steam generators to convert the turbines' hot exhaust gases to steam to make additional electricity with a Dresser Rand steam turbine generator. Again, this conversion of hot exhaust gas to additional steam results in a more efficient generating resource to serve NV Energy's customers.

**Employment:** Approximately 20 employees

## Interesting Features:

- At full power, the plant can produce enough electricity to serve approximately 165,000 customers.
- There are more than 1,100 General Electric LM6000 turbine generators worldwide. These reliable machines are reconfigured common jet engines and use the power to turn an electricity generator instead of thrusting air to propel an airplane.
- To make power as efficiently as possible during the hottest times of the year, the power plant uses "chillers" to cool the inlet air.
- 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

