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 covert 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.
One Nevada Transmission Line

Reno • Ely

Chuck Lenzie Generating Station • North of Las Vegas • 1,102 MW
Clark Mountain Combustion Turbines • Sparks • 132 MW
Edward W. Clark Generating Station • Las Vegas • 1,102 MW
Fort Churchill Generating Station • Yerington • 226 MW
Frank A. Tracy Generating Station • Sparks • 753 MW
Goodsprings Energy Recovery Station • Goodsprings • 5 MW
Harry Allen Generating Station • North of Las Vegas • 628 MW
Las Vegas Generating Station • North Las Vegas • 272 MW
Navajo Generating Station • Arizona • 255 MW (NVE owns 11.3%; SRP is operator)
Nellis Solar Array II • Northeast of Las Vegas • 15 MW
North Valmy Generating Station • Valmy • 261 MW (Idaho Power owns 50% of 522 MW total)
Silverhawk Generating Station • Las Vegas • 520 MW
Sun Peak Generating Station • Las Vegas • 210 MW
Walter M. Higgins Generating Station • Stateline • 530 MW

Key: ▲ Coal ▲ Natural Gas ▲ Renewable energy
(All megawatts are summer peak capacity)