



# Edward W. Clark Generating Station



**Location:** Las Vegas, Nevada

**Peak Generating Capacity:** 1,102 Megawatts

**Plant Description:** The Edward W. Clark Generating Station dates back to 1954 and is the oldest steam-generated power plant in Nevada. Today, it is a multi-technology natural gas-fueled power generating complex that includes a total of 19 generating units with in-service dates ranging from 1973 to 2008.

The oldest unit is a General Electric MS-7000 series turbine generator that is used to help meet high summer electricity demands.

The plant has four upgraded Westinghouse 501B6 combustion turbine generators that were originally installed in the late 70s and early 80s. These highly efficient and low-emission units now recycle their exhaust heat to power a pair of Mitsubishi steam turbine generators to make additional electricity for NV Energy customers.

The newest plant additions include 12 FT8 Pratt & Whitney peaking units that can provide up to 600 megawatts of electricity to meet short-term customer needs. These quick-start units are similar to the turbines that power jet airplanes.

**Employment:** Approximately 50 employees

## Interesting Features:

- At any one time, the plant can produce enough electricity to serve approximately 665,000 Nevada households.
- Upon completion of major plant renovation work and new unit installations between 2007 and 2009, the plant roughly doubled its generating capacity and reduced its emissions by half. This project was required by the terms of a Consent Decree entered into with the State of Nevada and EPA.
- The plant includes a 75-kW high-concentration photovoltaic system that was done in cooperation with the University of Nevada and the National Renewable Energy Laboratory.
- NV Energy annually provides approximately \$34 million in tax revenue to Clark County that benefits general county operations, schools, libraries, and other civic activities.



6226 WEST SAHARA AVENUE, LAS VEGAS, NEVADA 89146