Goodsprings Waste Heat Recovery Plant

(UNDER CONSTRUCTION)

Location: Goodsprings, Nevada (35 miles southwest of Las Vegas)

Generating Capacity: **7.5** MW (Under Construction)

Plant Description: The Goodsprings Waste Heat facility is known as a "Recovered Energy Generation Power Plant" and is the first of its kind in Nevada. It is adjacent to a large natural gas compression station that is used to pump natural gas through Nevada to California.

In the normal operation of the compressor station, some waste heat is released. This thermal energy can be captured and converted to electricity by the installation of an energy converter similar to those used in geothermal electricity generation. The Goodsprings project will use three heat exchangers to capture the heat from each of the existing compressors, and then use that heat to turn a separate generator to produce electricity.

Beneficial Partnership: This renewable energy facility is part of a three-way partnership with Reno, Nevada-based Ormat Technologies Inc., Salt Lake City, Utah-based Kern River Gas Transmission Co. and Las Vegas-based NV Energy. Ormat, the technology provider, is also serving as the project's engineering, procurement and construction partner. Kern River is providing the waste heat for generation, and NV Energy will own the facility and eventually become the plant's operator.

Interesting Features:

- Unlike some renewable energy that is intermittent, the Goodsprings Waste Heat Recovery project will provide renewable energy to customers on a round-the-clock basis.
- The plant can produce enough electricity to serve approximately 3,600 Nevada households.
- 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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