Jenbacher gas engines upgrading 2 power plants in Northern Territory of Australia

Alice Springs and Tennant Creek
Northern Territory, Australia

Location

Owen Springs Power Station in Alice Springs and Tennant Creek power station, Australia

Product

Alice Springs: Ten GE's Jenbacher 624 reciprocating engines

Tennant Creek: Three Jenbacher 612 reciprocating engines

Projects support electricity cost-reduction drive

GE's Distributed Power business is furnishing 13 of its Jenbacher high-efficiency, gas-fired, spark-engine reciprocating gas engines to Territory Generation to upgrade the utility's power plants in the Northern Territory towns of Alice Springs and Tennant Creek. The projects are part of Territory Generation's efforts to improve the reliability and efficiency of its power stations, reduce carbon, odour and noise emissions, and drive down the cost of producing electricity.
Territory Generation, a wholly government-owned entity, is the largest electricity producer in Australia's Northern Territory.

Ten of the Jenbacher J624 reciprocating gas engines will provide 44 MW of power to the Owen Springs power station in Alice Springs, while three of the Jenbacher J612 reciprocating gas engines and a diesel generator set will provide 7.5 MW of power to the Tennant Creek power station. Clarke Energy, GE's authorized distributor of Jenbacher gas engines, is supplying all 13 of the units and is responsible for ensuring that the integration of the new units with the existing power plant infrastructure is done safely and on time.

The Owen Springs update will be completed and operational by December 2017, while the Tennant Creek update will be completed and operational by August 2017.

"The J612 gas engines feature stable combustion, lower emissions and increased efficiency. The cost savings experienced as a result of the Tennant Creek upgrade will put downward pressure on the price of electricity, which is great news for customers."

Bart Simes, regional manager for GE's Distributed Power business

Multiple features mean lower prices and emission

Bart Simes, regional manager for GE's Distributed Power business, noted that the engines' advanced technology will benefit the people served by Territory Generation. The Jenbacher J624 gas engines feature high electrical efficiency and are capable of providing seamless power delivery even when operating on varying fuel gas compositions, such as those delivered to the Owen Springs power station. Further, the low fuel consumption rates will help to mitigate the price of power and reduce carbon emissions in the Northern Territory.

Customer advantages

- High electrical efficiency
- J624 units can burn a variety of fuel gases
- Reduced carbon emissions
- Lower operating costs

Key technical data

	Alice Springs	Tennant Creek
Number of units	10 x J624	3 x J612
Electrical output	~ 44 MW	~ 6 MW
Energy fuel source	Natural gas	Natural gas
Commercial operation	planned for December 2017	planned for Augst 2017

GE's Distributed Power business is a leading provider of engines, power equipment and services focused on power generation and gas compression at or near the point of use. The business offers a diverse product portfolio that includes highly efficient, fuel-flexible, industrial gas engines, each generating 200 kW to 10 MW of power for numerous industries globally. In addition, the business provides life cycle support for more than 37,000 gas engines worldwide to help customers meet their business challenges and success metrics—anywhere and anytime. Backed by GE's authorized service providers in more than 180 countries, our global service network connects with our customers locally for rapid response to their service needs. GE's Distributed Power business is headquartered in Jenbach, Austria.

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