

SPECIFICATIONS



370 MW 2012 Used GE D5 Steam Turbine Generator Set (Coal Fired)

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Description

This steam turbine generator set represents proven utility-scale power generation technology engineered for baseload, intermediate-duty, and combined cycle applications. Featuring a multi-stage condensing steam turbine with reheat capability and integrated high-efficiency synchronous generator, this unit delivers reliable, dispatchable electricity for large power plants, industrial facilities, and grid-scale energy projects. With a 2012 manufacture date and documented operational history, this pre-owned turbine-generator package offers substantial capital cost savings compared to new equipment while providing decades of remaining service life—making it an economically compelling solution for power plant new builds, repowering projects, or capacity expansion initiatives.

Rated at 370 MW gross electrical output at 3,600 RPM (60 Hz) or 3,000 RPM (50 Hz), the turbine accepts steam conditions typically ranging from 1,800-2,400 psi / 1,000-1,050°F with reheat. Turbine heat rate is approximately 7,800-8,200 BTU/kWh depending on steam parameters and condenser performance. The generator features hydrogen cooling, static excitation systems, and advanced protection relaying. Exhaust steam flows to a water-cooled or air-cooled condenser operating at vacuum pressures of 1.5-3.0 inches HgA.

KEY FEATURES:

- Multi-stage impulse-reaction design with high-pressure, intermediate-pressure, and low-pressure sections
- Reheat capability for enhanced thermal efficiency
- Comprehensive instrumentation and SCADA integration capability

ADVANTAGES

- Proven utility-scale reliability with 8,000+ equivalent operating hours between major overhauls
- Suitable for combined cycle, cogeneration, or conventional steam plant configurations
- High part-load efficiency for flexible grid dispatch and load-following operations

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Manufacturer	GE
Model	D5
Year	2012
Condition	Used
Location	South America
Qty Available	1 Unit
Category	Steam
Subcategory	> 99 MW
Stock Number	USP010886
Wattage	370 MW
Hours	65000 MW
Frequency	50 Hz
Fuel Type	Coal
Voltage	18000 Volts
Balance of Plant Available? (BOP)	-

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