



CESS REF: [GTMM9263](#)

4 x 40MW GE Frame 6B, CHP Dual Fuel, 50 Hz, 11 kV + 60MW GE Back Pressure Steam Turbine



4 x GE Frame 6B Gas Turbine Package

Gas Turbine Manufacturer	:	GE
Model	:	PG6541B
Fuel	:	Gas or Distillate
Rated Capacity	:	39,780kW
Speed	:	5,100 RPM
Control System	:	Speedtonic Mk. V
Generator Manufacturer	:	GE
Generator Model	:	6A3
Generator Type	:	Open Ventilated, Air Cooled
Frequency	:	50 Hz
Voltage	:	11,500 V
Load Gearbox	:	Westech
Accessory Gearbox	:	Westech
Year of Manufacture	:	1992
Total Operation Hours	:	(a) 136,209 (b) 138,342 (c) 140,827 (d) 142,707
Last Major Overhaul	:	(a) 2008 (b) 2009 (c) 2012 (d) 2009
Hours Until Major due	:	(a) 12,024 (b) 11,685 (c) 1,393 (d) 3,588

Package includes: all outdoor enclosures, Inlet air filters, exhaust plenum (for side exhaust), gas fuel skid, liquid fuel skid, lube oil coolers, frame exhaust blowers and generator breaker and protection and control system, fire detection and protection system.

- Option to purchase in overhauled condition due to agreement with non-OEM vendor.



1 x GE Condensing Steam Turbine Package

Steam Turbine Manufacturer	:	GE
Steam Turbine Model	:	270T263
Rated Capacity	:	60,000kW
Steam Turbine Type	:	Straight Condensing, Base Mounted Axial Ex.
Inlet Steam Pressure	:	68 bar (986 PSI)
Inlet Steam Temperature	:	478 °C (892 °F)
Backpressure	:	0.05 bar (0.73 PSI)
Year of Manufacture	:	1992
Total Operation Hours	:	120,000
Last Major Overhaul	:	2005

Package includes: outdoor enclosure, primary stop and control valves, combined lubrication and hydraulic oil systems, MK Speedtronic control system, generator breaker and protection and control systems, AC motor driven turning gear, condenser, air ejection system and condensate extraction pumps.

4 x Nooter Erikson Heat Recovery Steam Generator

HRSG Manufacturer	:	Nooter Erikson
HRSG Type	:	2-pressure, supplementary fired, semi-modular
Rated Capacity	:	90-95 tons/hr

The HRSG consists of a HP Superheater No.2, HP Superheater No.1, HP Steam Drum, HP Evaporator, LP Superheater, HP Economiser, LP Evaporator, LP Steam Drum with integral deaerator and Feedwater Heater. A Duct Burner for supplementary firing is installed upstream of the HP Superheater sections.

Auxiliaries/Balance of Plant

Complete auxiliaries and BOP are available including 3 x fuel storage tank, 3 x fuel oil forwarding pump, 3 x recip gas compressor, three cell forced draft cooling tower, 2 x circulating water pump, 2 x Skid mounted Auxiliary Cooling Water Pump, fire protection system, instrument and service air systems, reverse osmosis demin. water plant, boiler feedwater systems, 3 x Peebles Power main step up transformers, 2 x auxiliary transformer and package auxiliary boiler.