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For Sale:	Pre-owned 40 MW GE Frame B Gas Turbine Generator in excellent condition
Ref.-No:	GT-421

Brief plant history:

The gas turbine generation unit has served as reserve & base power unit and was commissioned in 1995. It is presently still in full commercial operation will be taken out of operation in January 2016 due to termination of the contract with the off taking institution. The GT unit has just passed its HGP maintenance event (first two weeks of November 2015). The power plant is available for sale and relocation from 1st February 2016 onwards.

A plant inspection in North West Europe at full load conditions can be organized on short notice.

Gas Turbine Generator Skid 40 MW at 50 Hz (simple cycle - natural gas fired)

Date Plant Commissioned: 1995
Date Plant Last Run: 2015
Total Running Hours Base: 164,438 hrs
Total Running Hours Peak: 147 hrs
Total Starts Counter: 246
HGPI Hot gas path inspection executed: 11/2015

SCOPE OF SUPPLY:

Heavy Duty Gas Turbine

- Manufacturer: GE - General Electric
- Model / Type / Serial Number: Frame 6B / type PG6541B / T 734
- Date of manufacture: 1994
- Power rating (ISO conditions, Natural gas) Base / Peak: 38,340 / 41,400 MW
- Heat rate: 11,460 kJ/kWh
- Turbine speed: 5,100 RPM
- Fuel configuration: Natural gas
- Emissions control / NO_x reduction: Steam injection
- Lubrication system: Oil heat to water via heat exchanger
- Starting device: Electric motor + Torque converter
- Acoustic enclosure: Included
- Manuals / Drawings: Included (English)
- Critical spare parts: Included (Capital spare parts listing attached)
- Special tooling: Included

Speed Reduction Gearbox

- Manufacturer: Voith
- Date of manufacture: 1994
- Shaft speed ratio: 5,100 / 3,000 RPM

Generator

- Manufacturer: GEC Alstom
- Date of manufacture: 1995
- Cooling: Air cooled
- Tropicalised windings
- Rated output: 52.975 MVA
- Power factor: 0.8
- Voltage: 11kV, 3 phase, 50 Hz
- Insulation class: F
- Protection: IP55
- Excitation: rotating diode exciter
- Generator speed: 3000 RPM

Balance of Plant

- Air intake / Filtration system
- Inlet & Lateral exhaust ducting
- Exhaust silencer & stack
- Lube oil cooler (water cooled)
- Fire detection system CO₂
- Outdoor enclosures
- Natural Gas Skid
- Electrical/Electronic control cabinet with
 - o Speedtronic turbine control system GE Mark V
 - o Motor Control Centre MCC
 - o Generator Breaker and Protection and Control System
 - o Operator control module



GT-A generating set with air intake filter and duct, stack, CO₂-fire extinction container and electronic/electrical control cabinet



View generator side



Inside view
Electronic / electrical control cabinet

Further information on request

Important Disclaimer

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