31 MW GE LM2500+ Gas Turbine Generator Package

General Electric LM2500+HSPT 31132 kW, Commissioned in 2004, Natural Gas, Brush Generator rated at 47500 KVA, 50 HZ, 11500 V, can be upgraded to dual fuel system. Next overhaul hours are required after 3579 running hours. electrical system, control system, cooling system, starting system, exhaust system, lubricating system, pumps, Turbine package can be put into service or used for spares for an already existing plant. Complete package very well maintained. Contact us to set up inspection. This plant is priced well below market value and can be purchased at a excellent price.

GAS TURBINE GENERATOR LM2500+ (31,132 MW)

GAS TURBINE

Manufacturer: General Electric
Despatched by: General Electric
Model Num.: LM2500+HSPT
Nominal Power: 31132 kW
Fuel: Natural Gas
Production Date: 2003
Compressor stages: 17
Power Turbine stages: 2

GENERATOR

Manufacturer: BRUSH
Production Date: 2003
Cooling: Air-Cooled
Insulation Class: F
Operation mode: Continuous
Operation power: 47500 kVA
Operation Voltage: 11500 V
Operation Current: 2385 A
Power Factor: 0,8
Speed: 1500 rpm
Frequency: 50 Hz
Field Voltage: 99 V
Field Current: 970 A
Standards: IEC 60034-1
IP Class: IP54
Ambient Temp.: 15 deg. C
Operation Altitude: <1000 m.
## GAS TURBINES

<table>
<thead>
<tr>
<th>UNIT</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>DATE OF COMMISSIONING</th>
<th>CAPACITY NOMINAL (MW)</th>
<th>EFFICIENCY Projected at full load, (%)</th>
<th>EFFICIENCY Real at full load, (%)</th>
<th>HEAT RATE Real at full load, (Kj/kW-hr)</th>
<th>AUXILIARY CONSUMPTION (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTG</td>
<td>GE</td>
<td>LM2500+ HSPT</td>
<td>Feb 2004</td>
<td>31.1</td>
<td>38.2</td>
<td>36</td>
<td>0.294</td>
<td>1.5%</td>
</tr>
</tbody>
</table>

Gas Turbine (Natural Gas) Control system has dual fuel system and Engine can be upgraded to dual fuel system.

Engine Running Hours: 69587 / Package Running Hours: 74659
HSPT Engine Running Hours: 68720 / Package Running Hours: 74659

**Routine Maintenance Intervals**

- 4000 Hours /6 Months = Semi-Annual Inspection
- 12500 Hours = VSV Bushing Replacement
- 25000 Hours = Hot Section Exchange
- 25000 Hours = HSPT Statory Kit Replacement (for GTG-HSPT)
- 50000 Hours = Major Overhaul Inspection

**Status of Overhaul Maintenance of Units:**

- GG overhaul done @ 48166 running hours
- HSPT overhaul done @48166 running hours

**Running Hours after Overhaul:**

- GG: 21421 Hours
- HSPT: 20554 Hours

**Next Overhaul Hours for Units:**

- HSE for GG after 3579 running hours, MOI after 28579 running hours,
- HSE for HSPT after 4446 running hours, MOI after 29446 running hours,

**Start-stop number for units:**
1699 fired starts, 1443 normal stops

Gas Consumption values:
0,287 Sm3/kWh