

## 333MW and 339MW GAS TURBINE POWER PLANTS(50HZ)

### 1) 333MW GAS TURBINE POWER PLANT(50HZ)

Type: Simple cycle type(There is no steam turbine)

Capacity:333MW

Frequency: 50HZ

Manufacturer: Mitsubishi(Japan)

Manufacturing year: 2011

Commissioning year:2012

Stop year:2014

Model: 701F4

Fuel: Dual type(Gas or diesel)

Heat efficiency: 41.9% LHV

LHV Heat rate: 8592kJ/kWh

8144Btu/kWh

Exhaust flow:748kg/s

Inlet temperature:1400 degree

Exhaust temperature: 630 degree

Rated speed:3000rpm

Exhaust Nox: 25ppm@15%O<sub>2</sub>

Exhaust Co: 10ppm@15%O<sub>2</sub>

Turn down load:45%

Ramp rate: 38MW/min.

Gas turbine size: approx.(LWH)=14.3 X5.8 x6.1m

Approx. weight:415ton

**(Turbine)**

**Type: Axial flow type**

**No. of stages:4**

**No. of rotors:1**

**(Compressor)**

**Type: Axial flow type**

**No.of stages:17**

**No.of bleed:3**

**(Combustor)**

**Type:Multi-can-annular type**

**No. of combustor: 20**

**Cooling type:air cooled**

**2) 339MW GAS TURBINE POWER PLANT(50HZ)**

**Type: Simple cycle type(There is no steam turbine)**

**Capacity:339MW**

**Frequency: 50HZ**

**Manufacturer: Mitsubishi(Japan)**

**Manufacturing year: 2011**

**Commissioning year:2012**

**Stop year:2015**

**Model: 701F4**

**Fuel: Gas**

**Heat efficiency: 41.9% LHV**

**LHV Heat rate: 8592kJ/kWh**

**8144Btu/kWh**

**Exhaust flow:748kg/s**

**Inlet temperature:1400 degree**

**Exhaust temperature: 630 degree**

**Rated speed:3000rpm**

**Exhaust Nox: 25ppm@15%O2**

**Exhaust Co: 10ppm@15%O2**

**Turn down load:45%**

**Ramp rate: 38MW/min.**

**Gas turbine size: approx.(LWH)=14.3 X5.8 x6.1m**

**Approx. weight:415ton**

**(Turbine)**

**Type: Axial flow type**

**No. of stages:4**

**No. of rotors:1**

**(Compressor)**

**Type: Axial flow type**

**No.of stages:17**

**No.of bleed:3**

**(Combustor)**

**Type:Multi-can-annular type**

**No. of combustor: 20**

**Cooling type:air cooled**