

## 288 MW Cogeneration Power Plant for Sale

### **Total Capacity:**

288 MW

### **Year Commissioned**

2001

### **Year Shut Down**

2018

### **Basic Design:**

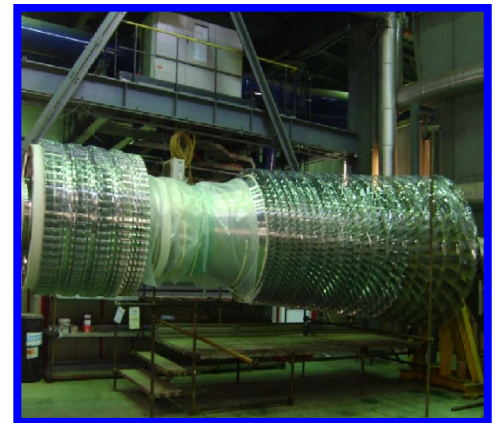
- Base load: power output 231 MW, electrical efficiency 50.64%, steam export 48 Ton/hr.
- Minimum load: power output 93 MW, electrical efficiency 39.39%, steam export 48 Ton/hr.

### **Major Equipment:**

- Gas Turbine: Alstom GT13E2 189 MW
- Steam Turbine: AEN 99 MW
- Heat Recovery Steam Generator
- Gas Turbine Generator
- Steam Turbine Generator
- Step-up Transformers
- Water Steam Cycle
- Water Cooling System

### **NOx Emission:**

- 15.64 mg/Nm<sup>3</sup> at 100% load
- 19.8 mg/Nm<sup>3</sup> at 75% load
- 22.3 mg/Nm<sup>3</sup> at 50% load



### **BRIEF PLANT DESCRIPTION**

Gas turbine operated for approximately 6,000 hours, steam turbine 5,000 hours after the last revamp. In the latest revamp, the gas turbine replaced compressor, rotor, turbine blades, combustion chamber and burners, and installed a new fuel gas treatment station. The gas turbine is also equipped with an air preheater, as well as with a cooling system in order to improve the plant performance and reduce the emission. The triple pressure circulating steam generator produces superheated steam at three levels: 100 bar at 490 °C, 18 bar at 490 °C, 5 bar at 170 °C. The HRSG is equipped with catalytic systems in order to lower the NOx emission and to oxidize the CO emission mainly during the minimum load. The steam turbine is a tandem-compound unit with a single flow high pressure cylinder coupled to a double flow pressure turbine.

### **For more information contact -**

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