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A Complete 4.9MW Natural Gas Cogen Power Plant for Sale
3x 1.6MW Jenbacher Engine Generators 4MW Steam Turbine Generator, 50Hz.
Asking 480,000 Euros for the complete plant

This is a complete cogen plant comprised of 3x1.6MW Jenbacher JW 616GS engine generators running on natural gas. 50Hz. Year of manufacture 1997. The cogeneration system with heat exchangers, pumps, valves, various documents, spares and maintenance books, and dismantling tools and some spares at the facility are all available for immediate purchase. All units have roughly 60,000 total running hours and are in excellent condition. All ABB Turbos (6 units) were replaced for new ones during the last overhaul. All crankshafts feature standard measures. Two out of three were also replaced in the last overhaul. Most of the parts are brand new. The plant maintenance was handled by the Jenbacher official service.

The generators are Newage/Stamford CG.I734H2. 1,500 rpm. Base Rate (BR): 1840 kVA / 1472 kW. The last overhaul was done in year 2005 at 40,000 hours. The next main overhaul is scheduled at 70,000 hours. At the intervals of 2,000-4,000 hours the maintenance was done by own technician staff. At the intervals of 10,000-20,000 hours the maintenance was done by the Jenbacher official service. The engines were stopped in summer 2011. They never had any breakdowns. The engines reached the full load capacity until the last running day easily. 690 V. 3 Phases. Cos fi: 0.8 Rating: Continuous. Excit Volts: 67 V. Excit Amps: 3.8 A. Ambient temperature: 40 °C. Enclosure: IP22. Insulation class: Class H.

The Management System

The facility has its corresponding low-voltage cabinets for command and control, and each engine and the installation have their own cell lines. The power plant is governed by an automatic ABB SCADA system, which allows control and monitoring of each engine, data capture, storage of the historical production, alarms and so on. Each of the machines in the facility has its own command and control cabinet and they are all linked to the SCADA system.

Steam Boiler is a Moiman manufactured in 1997. Pressure: 11 bar. Volume: 11.08 m³. Power: 3,489,763 Kcal/h. Capacity: 4,500 Kg/h of steam. Cold water feeding and the condensation network. Independent reviews done by a Control Agency under the provisions of Pressure Vessel Regulations.

Absorption Machine is a Trane made in 1997. Main overhaul: pumps, tube bundles and lithium bromide in 2009 by TRANE.

Inlet hot water temperature: 92°C. Outlet temperature: 72°C. Flow 35, 3 l/s. C.O.P: 077. Cooling power: 2,267,13 kW. Total working hours: 38,600 hours. Regular reviews done by both own technical staff and Trane service.

Transformers 3 each. 2,000 kVA. 20,000 Volts. Method: Oil bath.

Each generator is connected to a 2,000 kVA transformer, yield 0.98, oil bath, which raises the voltage to 20.000 Volts. There is also a fourth smaller unit for control and measurement purposes.

Tools and Spares

Some spares are available in the plant like a brand new ABB turbocharger plus a set of dismantling tools.

Scope of Supply

3x JENBACHER JW616GS 1.605 kW. (each) Natural Gas Generator Sets.

3x STAMFORD 1.4372 kW. (each) Electric Generators.

The Control Panels and the Management unit with ABB SCADA SYSTEM.

1x MOIMAN Steam Boiler with a steam generating capacity of 4.075 kWt.

1x TRANE Chiller/Absorption Machine.

3x Transformers 2.000 kVA (each) + 1 small output unit.

The Gas Trains.

The Exhaust Silencers.

The Chimney.

The cogeneration system with heat exchangers, pumps, valves...

Various documents, spares and maintenance books.

Available dismantling tools and some spares at the facility.

