

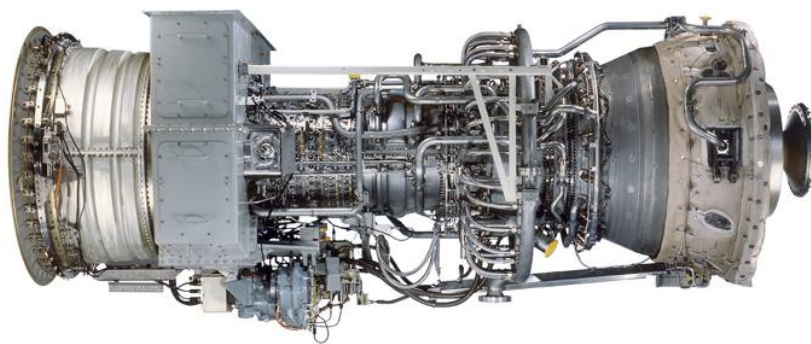
Specifications CHP LM6000 PD – Ruien 7.

Package gasturbine : EGT
Boiler : brouhon



General data :

Brand	General Electric
Type	LM 6000 PD – NGD - G03 (dry low emission)
Fuel	Natural Gas
Power	44 MW – 50 Hz
Serial Number	ESN192- 129

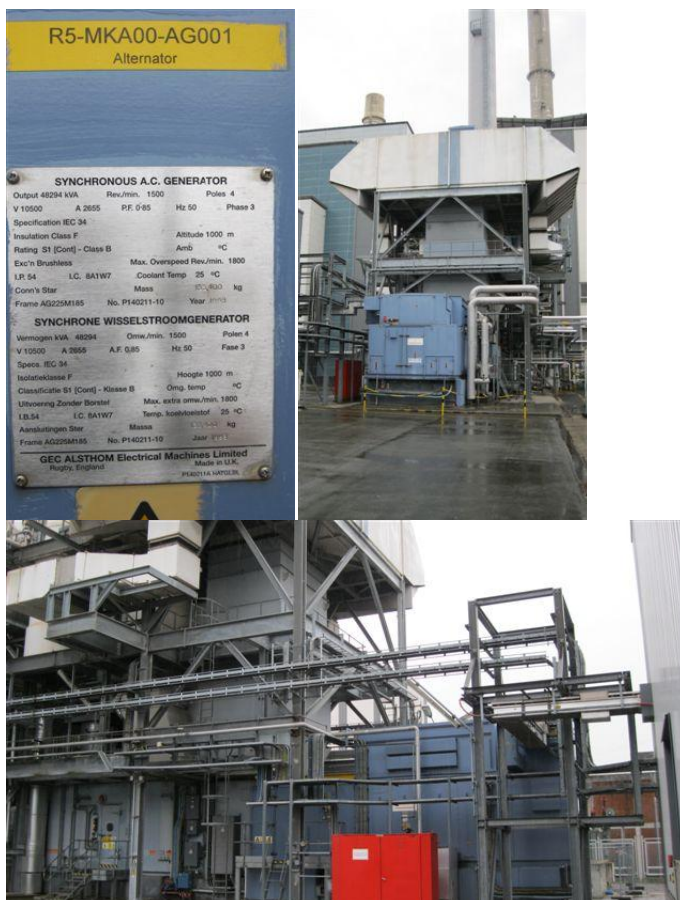


	192-129
Comissioning	1998
Total OH	71.000
Last MO	2010
OH since MO	26000
Operational mode	Mainly Baseload

Main parts :

1. Generator

Brand	GEC ALSTOM
Type	AG 225M185
Serial Number	P140211-10
Power	48294 KVA
RPM	1500 Rev/min
Voltage	10500 V
cooling	Air/water



2. gearbox

Brand	GEC ALSTOM
Type	HSG800H
Serial Number	P15205801
Power	52200 KW
RPM	3615/1500 t/min



3. Start engine (hydraulic start system)



4. Natural gas reduction station

Inlet pressure : max. 80 bar

Outlet pressure : 42 bar



Natural gas reduction station and steam heating NG

5. Smal components



Lube oil generator/gearbox



lube oil LM6000



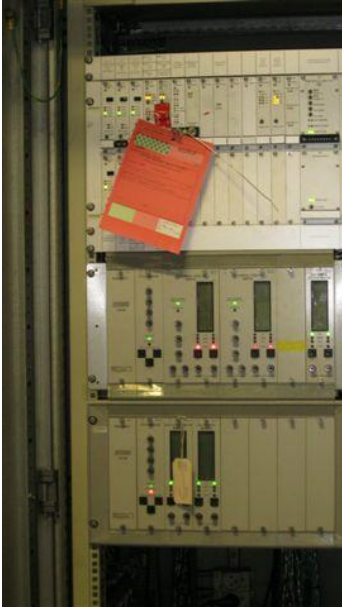
Washing skid LM6000



CO2-bottles

6. DCS / fuelfmetering valves

- Woodward Netcon – Pentium CPU
- 1 HMI operating station
- Software Ifix version 4.0, USB software key version 5.1
- Woodward Fuel regulating valves – 3 Valve system 3103 Valves with EM35 actuator & EM35 Driver



Gas and fire detection panel + Vibration monitoring "Bentley Nevada 3300"

7. MCC cabinets



400 V cabinets



HV-cabinets



Woodward cabinet

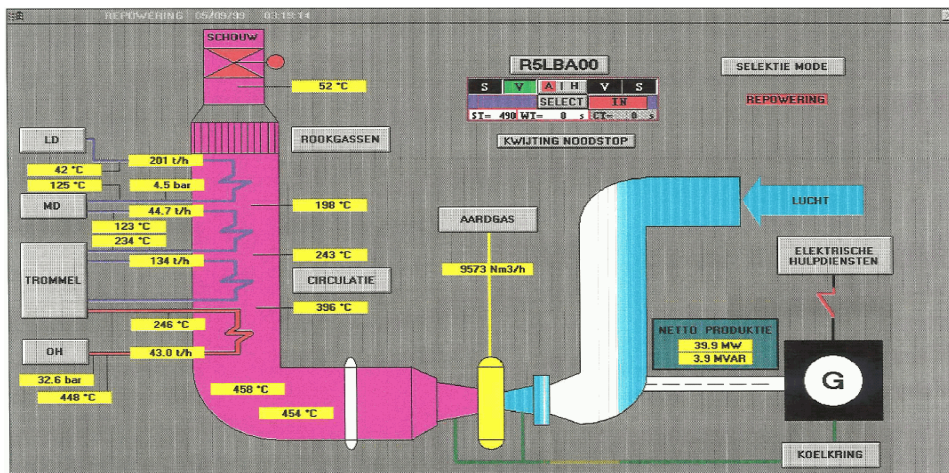


Generator cabinets



No-break cabinets

8. Boiler



General diagram

Manufacturer	Brouhon
Serial Number	2382
Year	1997
Preheater (max pressure, max. temp.)	Pressure: 35 bar – temp. in: 75°C – temp. out: 195°C
Economiser (max pressure, max. temp.)	Pressure: 60 bar – temp. in: 195°C – temp. out: 278°C
Drum (max pressure, max. temp.)	Pressure: 41,5 bar – temp. 253°C; evaporator: 303°C
Evaporator (max pressure, max. temp.)	Pressure: 41,5 bar – temp. in: 253°C – temp. out 303°C
Superheater (max pressure, max. temp.)	Pressure: 41,5 bar- temp. in: 303°C – temp. out 500°C Tube bundle: 520°C
Post combustion	NO
Flow	see diagram above
Running hours	45.000 h

9. Included in scope

- Circulation pumps boiler
- Feedwater pump
- Measurements fluegas

- Control system boiler
- Oil cooling loop. (heat exchangers, pumps,)
- Air compressor.