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For Sale:	102 MW (upgrade to 155 MW possible) Pre-owned Combined Cycle Power Plant
Ref.-No:	GT-CC-053

Brief plant history:

This plant is designed with 3 GTG's and it was used as a cogeneration plant originally . The total efficiency is around 54 % when cogeneration is operational. Since one of the two existing LM 6000 is not for sale a replacement LM 6000 (which we may have available) would increase the CC capacity to **155-156 MWe**. All auxiliaries necessary for this capacity level are existing in the scope. Also the net efficiency will be increased accordingly. The plant is presently in operation and will be operated until 31.12.2015.

CCGT PLANT CHARACTERISTICS

Type	CCNGPP
Capacity	102 MW
Configuration of the CCNGPP	2 GTG's + 2 STG's + 3 HRSG's
Fuel	GT LM 6000 is dual fuel (NG+Naphta) GT LM 2500 can use NG at the moment, however also Naphta is possible after an easy conversion.
Cooling Type	Water Cooling
Net Efficiency (according to the existing configuration)	46 %–47,5 %
COD	1999*
Major Maintenance Cycle, hours	50.000
Next Major Overhaul Inspection	GTG-1 after 36.583 h, GTG-3 after 28.579 h
Total Operating Hours (For the total package)	GTG-1 111.336 (GT-1 13.417 h) , GTG-3 74.659
Operating Hours Since Major Overhaul	21.421 for GTG-3
Total Starts Since Commissioning	GTG-1 696, GTG-3 1699

***The plant was commissioned in 1999. However, the gas turbine GTG-1 was installed in 2010 as new.**

CCGT CONFIGURATION

Gas Turbine-1	
Year of Construction	2010
Manufacturer	GE Europe
Capacity	42 MW
Model-Type	LM 6000
Efficiency	38 %

Gas Turbine-3	
Year of Construction	2004
Manufacturer	GE Europe
Capacity	31,1 MW
Model-Type	LM 2500
Efficiency	36 %

SteamTurbine-1	
Year of Construction	1999
Manufacturer	GE
Capacity	24 MW
Model-Type	DEX1634155432

SteamTurbine-2	
Year of Construction	2006
Manufacturer	Siemens
Capacity	10 MW
Model-Type	K 1101

Heat Recovery Steam Generators 1 and 2	
Year of Construction	1999
Manufacturer	DESA
Production of steam, ton/hr	59 t/h each

Heat Recovery Steam Generator 3	
Year of Construction	2006
Manufacturer	GAMA
Production of steam, ton/hr	44 t/h

Generators 11 KV	
Generator GT-Manufacturer	BRUSH
Generator ST-Manufacturer	GT-1 GE, GT-3 SIEMENS

Step-Up Transformers 11/155-160 KV	
Manufacturer	GE Prolec and ALSTOM
Model	-



Further information on request

Important Disclaimer

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