

50MW GE Combined Cycle Power Plant

Power Plant Info								
Commissioning Date:	2002							
Main Equipment:	1 unit of gas turbine, 1 unit of HRSG boiler 1 unit of steam turbine 2 units of generator							
Installed Power	50,3 MW							
Grid connection:	34,5 kV							
Equipment Info								
	GT1	ST1	GEN1 (GT1)	GEN2 (ST2)	HRSG1			
Manufacturer:	GE	ALSTOM	BRUSH	ABB	AALBORG			
Model No :	7LM6000 PC-NGWG 10	ST 3-C	BDAX-7-290	AMS 900 SG/V56A	STEAM GEN TM8			
Manufactureing Date:	MARCH 2002	2002	2001	2002	2002			
N.gas consumption (Sm3/hr) :	12000 SM3	-	-	-	-			
Nominal Power (MW) :	43 MW	12,83 MW	-	-	-			
GEN MVA (MVA) :	63,5 MVA	16,04 MVA	63,5 MVA	16,04 MVA	-			
GEN Nominal Voltage (kV) :	11 kV	11 kV	11 kV	11 kV	-			
GEN Cooler Type :	HAVA	HAVA	HAVA	HAVA	-			
Connection Voltage (kV) :	34,5kV/154 kV							
Internal Consumption (MWh) :	0,6 MWh							
Steam Consumption (Ton/h) :	-	HP: 45,2 LP: 22 Ton/h	-	-	62 Ton/h			
Steam Pressure (bar) :	-	HP: 47 LP: 1,6 bar	-	-	HP: 59, LP : 9 bar			
Steam Temp. (degC) :	-	HP: 400 LP: 145 degC	-	-	HP: 440, LP: 154 degC			
Elektrical Efficiency :	40.75%							
CCPP Electrical Efficiency :	46.30%							

Note: CCPP electrical efficiency at full load is %50.