

GE Frame 6B CC Power Plants in Four Locations

Brief Information Memorandum

December 2016



PLANT CHARACTERISTICS

	Location 1	Location 2	Location 3	Location 4
Net Plant Output	65 MW	130 MW	65 MW	115 MW
Fuel	Duel Fuel	Duel Fuel	Duel Fuel	Duel Fuel
Cooling Type	Water cooling	Water cooling	Water cooling	Air cooling
Net Efficiency	46% – 48%	43% – 45%	47% – 49%	46% – 48%
COD	Oct. 2003	Sep. 2002	Aug. 2002	Oct. 1997
Last Major Overhaul	Sep. 2011	Apr. 2009	Nov. 2008 (GTG) May. 2013 (STG)	Nov. 2007 (STG) Nov. 2006 (GTG2) Nov. 2004 (GTG1)
Total Operating Hours	58200	80.100 (GTG1) 79.400 (GTG2)	77000	111.535 (G1) 100.533 (G2)
Operating Hours Since Major Overhaul	9825	35.700 (GTG1) 36.600 (GTG2)	28100	42.118 (G1) 56.004 (G2)
Last Maintenance Activity	Major Inspection (Sep. 2011)	Hot Gas Path (Sep. 2012)	Hot Gas Path (May. 2013)	Hot Gas Path (Sep. 2010)
Next Maintenance Activity	Minor Insp. (ST) Hot Gas Path (GT) (after 24.000h)	Major Insp. (GT 1,2) (after 24.000h)	Major Insp. (GT) Minor Insp. (ST) (after 24.000h)	Major Insp. (GT 1,2) (after 24.000)

PLANT SPECIFICATIONS

	Location 1	Location 2	Location 3	Location 4
GTG				
Year of Construction	2001	2001	2001	1997
Manufacturer	GE	GE	GE	GE
Capacity	42 MW	40 MW	42 MW	40 MW
Generator GT - Manufacturer	GE	GE	GE	GE
Model - Type	Frame 6B PG 6581B	Frame 6B PG 6581B	Frame 6B PG 6581B	Frame 6B PG 6551 B (upgraded to PG 6571 B)
Efficiency	31% - 33%	31% - 33%	31% - 33%	31%-33%
STG				
Year of Construction	2002	2002	2002	1999
Manufacturer	Siemens NL	GE	Siemens NL	Siemens NL
Generator ST - Manufacturer	SIEMENS	SIEMENS	SIEMENS	SIEMENS
Capacity	22 MW	50 MW	22 MW	40 MW
Model - Type	NK 50/90-B1 DASL HP/LP	ENK 71/3.2	NK 50/90-B1 DASL HP/LP	GTL 1200EH
HRSG				
Year of Construction	2002	2002	2001	1997 – 1998
Manufacturer	STANDARD FASEL	STANDARD FASEL	STANDARD FASEL	DESA - BWG
Production of steam, ton/hr	65	65	65	61.2

Location 1



Location 2



Location 3



Location 4

