



# 7F HEAVY DUTY GAS TURBINE

**198-243 MW**  
SIMPLE CYCLE OUTPUT

**>60%**  
COMBINED CYCLE EFFICIENCY



### CAPABILITY

Field replaceable compressor blades reduce downtime and outage costs



### VERSATILITY

Only F-class that burns Arabian Super Light; also offers 15% CO<sub>2</sub>, +20%/-10% Modified Wobbe Index, and 5% hydrogen



### SUSTAINABILITY

Continually leading the way since being the first F-class to achieve 5 ppm NO<sub>x</sub> emissions

The demands of today's power generation industry are many: low cost of electricity, dispatch volatility, along with high efficiency, reliability, and asset availability. With more than 1,100 installed units producing ~175GW of power in 12 countries, GE's 7F gas turbine is a proven performer in all these areas. Among its features, the 7F provides 98.6 percent reliability, which enables five to six more days of operation per year than the industry average.

		7F.04	7F.05
SC Plant Performance	SC Net Output (MW)	198	243
	SC Net Heat Rate (Btu/kWh, LHV)	8,840	8,570
	SC Net Heat Rate (kJ/kWh, LHV)	9,327	9,042
	SC Net Efficiency (% , LHV)	38.6%	39.8%
1x CC Plant Performance	CC Net Output (MW)	305	376
	CC Net Heat Rate (Btu/kWh, LHV)	5,715	5,649
	CC Net Heat Rate (kJ/kWh, LHV)	6,030	5,960
	CC Net Efficiency (% , LHV)	59.7%	60.4%
	Plant Turndown – Minimum Load (%)	58.0%	46.0%
	Ramp Rate (MW/min)	30	40
	Startup Time (RR Hot, Minutes)	28	25
2x CC Plant Performance	CC Net Output (MW)	615	756
	CC Net Heat Rate (Btu/kWh, LHV)	5,676	5,649
	CC Net Heat Rate (kJ/kWh, LHV)	5,989	5,960
	CC Net Efficiency (% , LHV)	60.1%	60.4%
	Plant Turndown – Minimum Load (%)	27.0%	22.0%
	Ramp Rate (MW/min)	60	80
	Startup Time (RR Hot, Minutes)	28	25

NOTE: All ratings are net plant, based on ISO conditions and natural gas fuel. Actual performance will vary with project-specific conditions and fuel.