



7F POWER PLANTS

176-239 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% CO₂, +20%/-10% Modified Wobbe Index, and 5% hydrogen



SUSTAINABILITY

Continually leading the way since being the first F-class to achieve 5 ppm NO_x 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 approximately 900 installed units producing ~150 GW of power in 12 countries, GE's 7F gas turbine is a proven performer in all these areas. Among its features, the 7F provides industry leading 99.3% reliability, which enables five to six more days of operation per year than the industry average.

		7F.03	7F.04	7F.05
SC Plant Performance	SC Net Output (MW)	176	198	239
	SC Net Heat Rate (Btu/kWh, LHV)	9,642	8,840	9,019
	SC Net Heat Rate (kJ/kWh, LHV)	10,173	9,327	9,516
	SC Net Efficiency (% , LHV)	35.4%	38.6%	37.8%
1x CC Plant Performance	CC Net Output (MW)	271	305	383
	CC Net Heat Rate (Btu/kWh, LHV)	5,955	5,715	5,692
	CC Net Heat Rate (kJ/kWh, LHV)	6,283	6,030	6,005
	CC Net Efficiency (% , LHV)	57.3%	59.7%	60.0%
	Plant Turndown – Minimum Load (%)	51%	50%	43%
	Ramp Rate (MW/min)	28	30	40
2x CC Plant Performance	Startup Time (RR Hot, Minutes)	30	28	25
	CC Net Output (MW)	545	615	769
	CC Net Heat Rate (Btu/kWh, LHV)	5,924	5,676	5,664
	CC Net Heat Rate (kJ/kWh, LHV)	6,250	5,989	5,976
	CC Net Efficiency (% , LHV)	57.6%	60.1%	60.3%
	Plant Turndown – Minimum Load (%)	26%	25%	22%
Ramp Rate (MW/min)	56	60	80	
Startup Time (RR Hot, Minutes)	30	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.