290-430 MW SIMPLE CYCLE OUTPUT

>64% COMBINED CYCLE EFFICIENCY

A 7HA COMBINED CYCLE PLANT, NOW CAPABLE OF >64% EFFICIENCY, PROVIDES A >50% REDUCTION IN CO_2 EMISSIONS VS. A SIMILAR SIZE COAL FIRED ASSET.

		7HA.01	7HA.02	7HA.03
SC PLANT PERFORMANCE	SC Net Output (MW)	290	384	430
	SC Net Heat Rate (Btu/kWh, LHV)	8,120	8,009	7,884
	SC Net Heat Rate (kJ/kWh, LHV)	8,567	8,450	8,318
	SC Net Efficiency (%, LHV)	42.0%	42.6%	43.3%
1X CC PLANT PERFORMANCE	CC Net Output (MW)	438	573	640
	CC Net Heat Rate (Btu/kWh, LHV)	5,481	5,381	5,342
	CC Net Heat Rate (kJ/kWh, LHV)	5,783	5,677	5,636
	CC Net Efficiency (%, LHV)	62.3%	63.4%	63.9%
	Plant Turndown – Minimum Load (%)	33.0%	33.0%	33.0%
	Ramp Rate (MW/min)	55	60	75
	Startup Time (RR Hot†, Minutes)	<30	<30	<30
2X CC PLANT PERFORMANCE	CC Net Output (MW)	880	1,148	1,282
	CC Net Heat Rate (Btu/kWh, LHV)	5,453	5,365	5,331
	CC Net Heat Rate (kJ/kWh, LHV)	5,753	5,660	5,625
	CC Net Efficiency (%, LHV)	62.6%	63.6%	>64.0%
	Plant Turndown – Minimum Load (%)	15.0%	15.0%	15.0%
	Ramp Rate (MW/min)	110	120	150
	Startup Time (RR Hot†, Minutes)	<30	<30	<30

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

Today, more than 50 7HA gas turbines have been installed around the globe. These units support base load, load following, peaking, and cogeneration for district heating applications. The 7HA gas turbine will be a key enabler as the energy transition progresses and we move towards a world with less carbon emissions, providing the reliable and flexible power generation needed to complement renewable energy sources.

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