



LM2500 POWER PLANTS

34 MW
SIMPLE CYCLE OUTPUT

>38%
SIMPLE CYCLE EFFICIENCY*



CAPABILITY

Ideal for combined cycle, onshore and offshore power generation, mechanical drive, and cogeneration



VERSATILITY

Accommodates a wide variety of fuels, including coke-oven gas, naphtha, propane, diesel, ethanol, and LNG



SUSTAINABILITY

Multiple technology options available to lower NO_x and other emissions concerns

With more than 2,400 units sold and more than 79 million operating hours, GE's LM2500 is the top-selling gas turbine globally. Ideal for CHP applications between 20 to 40 MW, the LM2500's greater than 85 percent efficiency helps reduce operating costs, plant emissions, and reliance on the local grid. A lightweight and compact modular design complements the universal packaging, which improves accessibility for maintenance. The LM2500 delivers power with reliability greater than 99 percent and availability greater than 98 percent.

gepower.com

		LM2500-DLE	LM2500-LDLE	LM2500-LDLE-SN
SC Plant Performance	SC Net Output (MW)	33.1	30.6	33.6
	SC Net Heat Rate (Btu/kWh, LHV)	51,501	51,948	51,897
	SC Net Heat Rate (Btu/kWh, HHV)	48,884	49,432	49,381
	SC Plant Efficiency (% LHV)	39.9%	38.0%	39.6%
1x1 Plant Performance	CC Net Output (MW)	52.2	45.9	47.7
	CC Net Heat Rate (Btu/kWh, LHV)	41,465	41,789	41,719
	CC Net Heat Rate (Btu/kWh, HHV)	38,811	39,445	39,365
	CC Plant Efficiency (% LHV)	54.0%	54.2%	54.4%
	Plant Turn-down – Minimum Load (%)	34.0%	35.0%	35.0%
	Plant Water (MG/Week)	30	30	30
2x1 Plant Performance	Startup Time (20% Hot, Minimum)	30	30	30
	CC Net Output (MW)	88.9	88.4	89.1
	CC Net Heat Rate (Btu/kWh, LHV)	41,411	41,771	41,735
	CC Net Heat Rate (Btu/kWh, HHV)	38,785	39,422	39,340
	CC Plant Efficiency (% LHV)	54.1%	54.4%	54.5%
	Plant Turn-down – Minimum Load (%)	37.0%	37.0%	38.0%
Plant Water (MG/Week)		80	80	80
Startup Time (20% Hot, Minimum)		30	30	30

*Based on ratings of combined cycle on 99% efficiency and power output. Actual performance will vary with plant specific conditions and fuel.

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Ge Lm2500 Plus Technical Manual

Padhraic Smyth



Ge Lm2500 Plus Technical Manual:

Modern Marine Engineer's Manual Everett C. Hunt, Gus Bourneuf, 1999 This book is designed to serve as a textbook for students and a reference for today's engineering officers port engineers superintendent engineers and other maritime professionals Steam turbine propulsion systems are included but the coverage has been reduced in recognition of the popularity of main propulsion diesel engines covered in volume 2 and the anticipated increasing applications of aeroderivative gas turbines Reciprocating steam engines have been eliminated Pumps pumping systems and heat exchangers are given extensive coverage Computer applications for machinery and system management are presented including an entire chapter on maintenance management Relevant material on international and national laws classification society requirements and standards such as ISO 9000 series and the ISM code are included in the text The characteristics of fuels are presented along with a discussion of fuel testing and analysis and a section on bunkering A chapter on safety and management discusses shipboard engineering operations shipyard repair planning and economics and safety management Each chapter includes review questions and references for additional study

ASME Technical Papers, 1998 The North Sea Field Development Guide, 1997 Discussions of Technical Papers and Memorandums of Panel Discussions

Presented at the International Symposium on Marine Engineering, 1973 **Technical Papers Presented at the International Symposium on Marine Engineering**, 1973 *Paper*, 2000 **The Naval Institute Guide to Combat Fleets of the World 2000-2001** A. D. Baker, III, Arthur David Baker, 2000

This biennially updated reference on the world's naval and paranaul forces presents accurate and timely data about the composition of the afloat coastal defense and aviation arms of about 180 countries and territories as well as information about coast guards and other armed maritime government

Unique 3-in-1 Research & Development Directory, 1989 **Chilton's Food Engineering**, 1991-07 **Offshore Ferry Services of England & Scotland** Peter C. Smith, 2012-03-30 The United Kingdom comprises thousands of islands and for many centuries transport between the main islands and the outlying communities has required reliable shipping routes both long and short haul for commerce trade and travel Ferries have become an essential means of transport for many outlying populations and down the years routes have continually changed and been adapted to meet the requirements of the period This remains so today with established ferry routes in a constant state of flux with the dire economic circumstances of the present imposing their own financial restraints upon routes and timetables This volume presents a snapshot of the major Offshore Ferry routes as they currently stand with details of the routes the ships and the amenities added to which are the outline histories of companies and links This volume encapsulates all these strands and should prove a useful aide to all travellers

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