



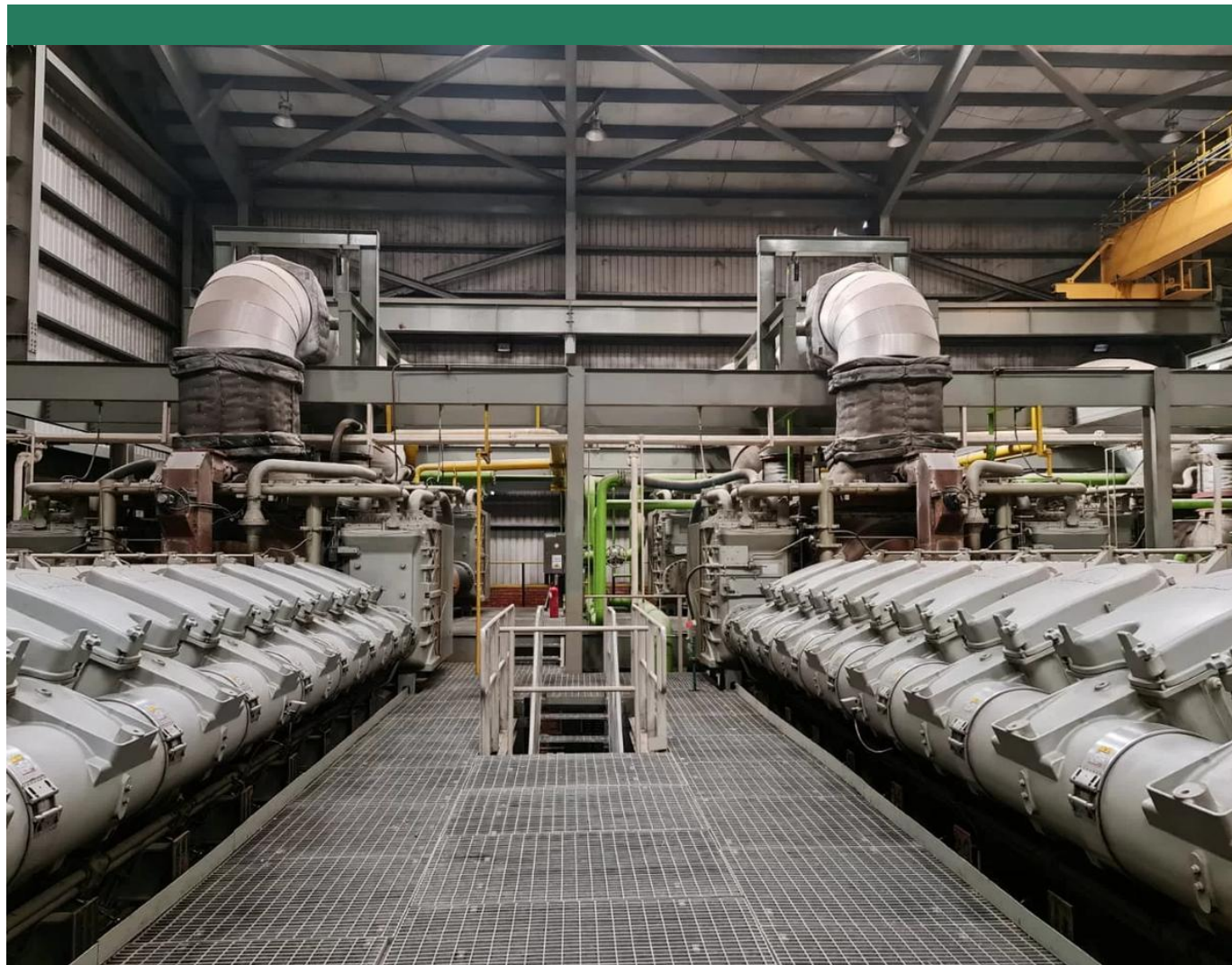
JADE Power Trading
Quality Energy Equipment

PRODUCT
BROCHURE
REF.
9582023

DIESEL POWER PLANT - 57.9 MW

MAN 3 × 18V48/60 TS

3 × 19.3 MWe | 11 kV | 50 Hz | Year 2014



57.9 MWe
TOTAL PLANT
CAPACITY

3 × 19.3 MWe
GENERATING UNITS

11 kV / 50 Hz
GENERATOR OUTPUT

Approx. 5,000 h
OPERATING HOURS

LOW OPERATING HOURS • FULLY OPERATIONAL • COMPLETE AUXILIARIES

EQUIPMENT OVERVIEW

Low-hour base-load capacity with complete mechanical, electrical and control auxiliaries.

LOW-HOUR MAN DIESEL POWER PLANT

This 57.9 MW diesel power plant comprises three identical MAN 18V48/60 TS generating units, each rated at 19.305 MW continuous output. The equipment was manufactured in 2014, commissioned in 2016 and has accumulated only approximately 5,000 operating hours per engine since new.

The 500 rpm engines are turbocharged with intercooling and mounted on base frames that serve as wet oil sumps. Each engine is coupled through a flexible coupling to an air-cooled ABB AMG 1600 synchronous alternator installed on a concrete foundation and equipped with its own lubrication-oil system.

Two separate engine cooling circuits are connected to a radiator cooling system. Plant control is provided by MAN SaCoS One, while the 11 kV switchgear uses Siemens SF6 circuit breakers. The plant remains installed, fully operational and in excellent technical condition.

MAN 18V48/60 TS generating units



Engine hall and auxiliary arrangement



TECHNICAL SPECIFICATIONS

Technical data provided for preliminary sales and project evaluation.

PARAMETER	SPECIFICATION
Manufacturer	MAN Augsburg, Germany
Plant configuration	3 × MAN 18V48/60 TS diesel generating sets
Manufacturing year	2014
Commissioning	2016
Total installed capacity	57.9 MWe
Number of generating sets	3 units
Rated output per unit	19,305 kW _e continuous
Engine speed	500 rpm
Operating hours	Approx. 5,000 h per engine
Fuel	HSD / diesel oil
Fuel consumption	182 g/kW _h ±5% (NCV 42,700 kJ/kg)
Lubricating oil consumption	9.9 kg/h with +20% tolerance
Alternator manufacturer / type	ABB AMG 1600, air-cooled
Alternator rating	24,132 kVA per unit
Generator voltage / frequency	11 kV / 50 Hz
Engine control system	MAN SaCoS One
Circuit breakers	Siemens 11 kV SF ₆ type
Cooling system	Two engine circuits with radiator cooling
Operational status	Installed and fully operational

Performance note: Final net output, fuel consumption and auxiliary demand remain subject to ambient conditions, fuel quality, site configuration, final battery limits and agreed test procedures.

SCOPE OF SUPPLY & CONTACT

The following scope is based on the currently available sales information and remains subject to final confirmation.

MECHANICAL EQUIPMENT

- ✓ 3 × MAN 18V48/60 TS diesel engines
- ✓ 3 × ABB AMG 1600 synchronous alternators
- ✓ 6 × ABB turbochargers with intercooling
- ✓ 3 × charge-air systems with air filters
- ✓ 6 × ventilation fans
- ✓ 2 × diesel fuel separators
- ✓ 3 × fuel-booster systems with fuel heat exchangers
- ✓ 2 × starting-air compressors
- ✓ 18 × engine-cooling radiators
- ✓ 3 × LT and HT heat exchangers

CONTROLS & ELECTRICAL

- 3 × MAN SaCoS One control and interface systems
- 3 × engine auxiliary panels
- 3 × engine control modules
- 1 × common control module
- 10 × 415 V auxiliary breaker panels
- AC/DC panels and UPS
- 7 × Siemens 11 kV SF6 circuit breakers
- 3 × NGR cubicles
- Radiator control panels
- 2 × 2,000 kVA auxiliary transformers

DELIVERY & INSPECTION

The plant remains installed and fully operational. Inspection, technical-document review and operating-test arrangements may be organized for qualified buyers. Final equipment scope, battery limits, dismantling, preservation, packing, transport, reinstallation and commercial terms remain subject to agreement.

REQUEST FURTHER INFORMATION

Commercial quotation, additional plant photographs, detailed scope clarification, technical documentation, inspection and operating-test arrangements are available on request.

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**SCAN FOR ONLINE
LISTING**

All information is provided in good faith for preliminary evaluation and is subject to verification, final scope confirmation and contract.