

SHORT DESCRIPTION:

Powerplant 19.5 MW

Engines: Wartsila 18 V 32 LN - 3 Engines
Power: 6750 KW, 750 Rpm, each
Built: 1998

Generators: ABB
Output: 8150 KVA, 750 Rpm
Voltage: 6000 V, 50 Hz, 784 Amps

Total Weight of one Generating Set: Approx. 100 Tons

Condition: New

Plant is complete with filters, coolers, separators, transformers, etc.

Main data

rated output	19540kWe = 24428kVA at cosphi 0.8
generator voltage	6kV
frequency	50Hz
auxiliary voltage	380VAC, 110VDC

special characteristics	gensets fixed to ground with vibration dampers, flexible coupling between Engine-generator, common base frame for engine/generator engine delivered With electric pre-lubrication pump and cooling water pre-heating.
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Diesel engine

Wärtsila 18V32	
cylinder lining	V-arrangement
qty. Of cylinders	18
bore	320mm
stroke	350mm
velocity	750rpm
engine output	6750kWmech.
lube oil consumption	0.8 ± 0.2gr/kWh

Generator

rated output	8150kVA
voltage	6000V
frequency	50H

velocity	750rpm
efficiency	96.5%
insulation class	F

Mechanical auxiliary system

LFO system
heavy fuel system
unloading pumps
storage tank 1000m³
feeder pumps
day tanks
seperator units
booster module
lub oil system
starting air system
cooling system with radiators
exhaust system
steel constructions

Electrical systems	4xtrafos 6Kv/20kV 1 metering feeder 3 cable feeders complete auxiliary substation DC system 110V Control and protection system for complete power stations Control and power cables complete
Automation system	complete SPS/SCADA system on PC-basis
Heat recovery system	heat recovery system with 3 head exchangers HAT-circuit, and all heat Supply systems for auxiliaries
Emission control	De-NOX-System with selective catalytic Reduction
Tools	complete toolset
Building	complete steel sheet constructed power house