

106 MW Diesel HFO Power Plant

4142016 Diesel Generator Power Plant 106 MW with Wartsila 7x18V46 HFO

This is a complete 106 MW Diesel Power Plant with 7 units of Wartsila 18V46 HFO engines coupled with synchronous and brushless ABB made alternators. The plant was delivered and commissioned by Wartsila in 2001 as complete EPC delivery and it is still in operation but ready for immediate relocation. The fuel has been low sulfur HFO. Delivery includes complete plant with buildings and switch yard equipment.

The plant is coupled with ABB made brushless synchronous 11 kV / 50 Hz alternators. It has been in operation under PPA and engines have been operated from 50700 to 69000 hours in base load power production. This power plant is designed and built by Wartsila utilizing their highly standardized functional module delivery. Operation and maintenance works are carried out strictly in accordance with Wartsila manuals, 60 000 hour maintenance is carried out to 3 units. No any unexpected breakdowns has happened. Delivery contains complete functioning power plant with 110 kV switchyard, buildings and day tank yard. Power plant is currently in standby mode, in excellent condition it has all service records and complete original documentation available at site.

Main plant characteristics at current site conditions:

Net power output at site	106 MW at 110 kV / 50 Hz
Engines	7 x 18V46 - 500 rpm
Shaft output ISO	16 290 kWm
Alternators	ABB AMG 1600 SS12 DSEB self-cooled, brushless, synchronous
Power factor	0.8
Efficiency	0.97 (at rated output, 50 Hz and power factor 0.8)
Voltage	11 000 V, with adjustment range +5 - 10%
Frequency	50 Hz +/-5%

Fuel consumption gross	8290 - 8330 kJ/kWh (43.4 to 43.2 % efficiency)
Lube oil consumption:	0.7 g/kWh
Cooling system:	Closed loop radiator cooling
Fuel Oil:	HFO viscosity max 380 cSt / 50 °C
Internal electric consump	2.5 % at full load, up to 4% at low load

Payment term:	100 % before loading
Delivery term:	EXW
Other terms:	Will be sold As-Is condition
Validity:	This offer is valid 30 days, subject to prior sale without notice