A Catorpillar Company

MARS 100 Gas Turbine Generator Set

Power Generation





2 x SOLAR MARS 100 – SOLONOX VERSION 15000 July, 2025

<u>Solar Turbines</u>

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1. Scope of the technical proposal.

Supply Two Solar Brand Gas Turbines:

02 x Gas Turbine model MARS 100 SoLoNOx – Version 15000SAN, 14800 HP. These are used equipment, zero hours - refurbished, manufactured in 2011.

MAIN PLATES, ONE OF THEM

GAS TU MODEL NO.	Solar Turbines A Caterpillar Company ENGINE SOLONOX DATA PLATE SERIAL NO.					
ENGINE I.D.	15000SAN	SERI		PILOT(%)	T5 (°F)	TPZ (°F)
SERIAL NO.			103.6%	4.5	1280	
POWER (G/L)	14800 / NA HP		100%	4.5	1280	ALC: N
NGP (RPM)	11168	6	98%	4.5	1280	-
NPT (RPM)	9500	GA (96%	4.5	1280	
IGV SETTING	+6.0 DEG @ 59F		94%	4.5 4.5	1280 1280	
AT5 BASE (G/L)	1298F / NA @ 59F		92%	4.5	1200	
SETPOINT (GAL) FULL LOAD	1360F / NA		NGP	PILOT(%)	T5 (°F)	
	p: 303942-200		103.69	NA NA	NA	
^UNCOMPENSATED * ISO VALUES			100%	NA	NA	
ONCOMPEN	SATED ISO VALUES		98%	NA	NA	
		LIQUID	96%	NA	NA	
		1 2	94%	NA	NA	
			92%	NA	NA	
MANUFACTU	RED IN USA			LUES ARE	UNCON	

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The technical characteristics of the turbines are shown in the attached table.

YEAR	MAKE	MODEL	Frequency	Condition	Power HP	MW ISO	Quantity Available
2011	Solar	Mars 100 SoLoNOx	60 Hz	Zero Hours - Refurbished	14800	11.3	2

Manufacturer: Solar Turbines.

Manufacture year: 2011.

Gas turbine model: Mars 100-Version 15000SAN. SoLoNOx

Gas turbine power: 14800 HP.

Gas turbine power: 11.3 MW.

Gas turbine speed RPM: NGP 11168 NPT 9500 rpm.

Fuel Type: Natural Gas Maximum Supply Pressure 500 psig (3450 kPag).

Frequency: 60Hz

SCOPE of SUPPLY: Complete Ga Turbine including:

- ✓ Gas turbine (axial compressor, combustion chamber, and power turbine).
- ✓ Intake volute, inlet silencers
- ✓ Exhaust volute, exhaust silencers
- ✓ Lubricating oil system, oil tank, heater, main and auxiliary oil pumps (main mechanical, AC electric pre/post, DC electric backup), filter, 120V DC starter, pressure and temperature regulator, oil mist separator, ventilation flame arrester
- ✓ Starter motor
- ✓ Oil pressure regulation system
- ✓ Thermostat valve
- ✓ Duplex filter holder with its 6-way valve
- ✓ CO2 piping system, fire detection, and fire extinguishing system CO2
- ✓ Instrumentation associated with the turbine (pressure transmitters, vibration modules)
- ✓ Gas valves (primary, secondary, and PEC)
- ✓ IGV electro-actuator
- ✓ Oil supply and drainage hoses and pipes
- ✓ Enclosure with its panels and doors (enclosure)

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- ✓ Local control panel with its PLC
- ✓ Cabin air intake duct with its fan, ventilation system
- ✓ Cabin air outlet ducts, ventilation system
- ✓ Filter house
- ✓ Damper with shutters for cabin insulation (cabin intake and discharge)
- Main oil tank
- ✓ Gas, flame, and heat detectors
- ✓ Thermocouples
- ✓ Skid internal pipes.
- ✓ Injectors
- ✓ Bleed valve
- ✓ Air and gas manifolds
- ✓ Electric Generator

Additional Scope of Supply:

- Zero hours, refurbished.
- Type of fuel used: Natural gas.
- Type of compatible fuel: No.
- Permanent suspension of activity: March/2023.
- Reason for interruption: End of subsidy for the acquisition of fuel (natural gas).

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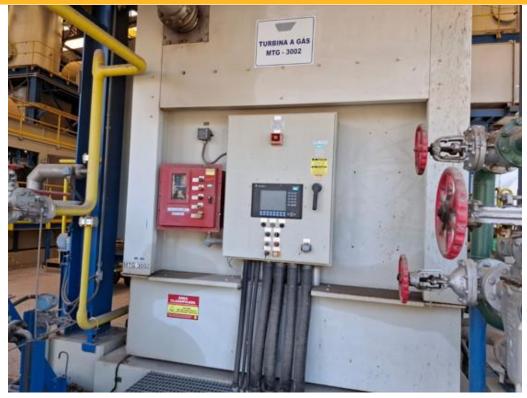


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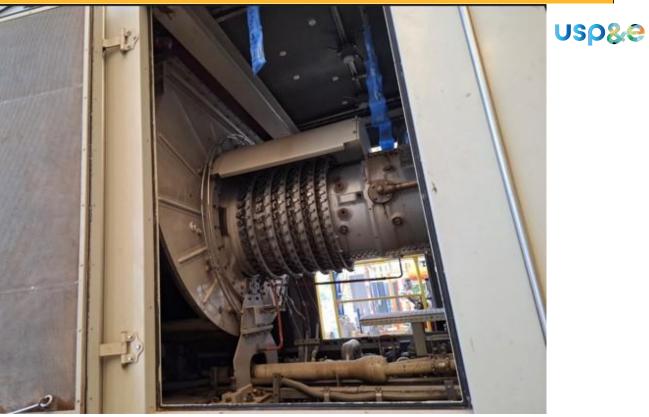




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2. Prices

- Each Solar Gas Turbine included an Electric Generator:
- The total price for two Solar Gas Turbines

The Contract Price will be payable solely in US Dollars, the official currency of the United States of America.

3. Terms and conditions of payment

The following payment method is established.

- A. A down payment fee payable before the inspection visit with the signed Sale Contract, is required. This amount is 1% of the price of a Solar Gas Turbine, and serves as a security deposit, which is refundable if not utilized as presented.
- B. A deposit of 79% was paid with the official purchase order (P/O) five working days after the inspection visit.
- C. The balance is 20% before shipping.

4. Delivery

Three months after receiving the purchase order.

Solar Turbines: Disassembled, CIF – ASWP.

Offer Validity: This quotation is valid for 30 days.

This offer does not include taxes. No warranty.

- <u>Note</u>:
 - Equipment can be sold separately
 - Attachment: Solar Mars 100 Brochure

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