

ReflowX

Shaping a Sustainable Tomorrow

4x GE Alsthom 9001E Gas Turbines & 2x Rateau Steam Turbines

Technical Information Pack

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Description

Specification	Details
Manufacturer	M/S ALSTHOM / RATEAU, France
Model (Gas Turbine)	9001 E & VEGA209 110B
Year of Manufacture	1990 & 1995
Condition	Used
Location	Asia
Qty Available	2x (2x Gas Turbines & 1x Steam Turbines)
Power Output	82 MW per GT & 103.4 MW ST (271 MW for 2x GT + 1x ST)
Fuel Type	Multi-fuel capable; rated for Gas, HSD, and FO / LSFO
Frequency (Hz)	50 Hz
Configuration	Multi-engine
Generator / Alternator	ALSTHOM
Operating Hours	~ 157,232 OH GT, ~ 130,000 OH ST
Total Starts	8500 & 2900
Current Status	Preserved since October 2022

Technical Details

- This power package features two multi-fuel GE Alsthom 9001E Gas Turbines (82 MW base load on gas) and one
- Rateau Steam Turbines (103.4 MW rated power).
- Gas Turbines (Units 5-8): Feature life-extension upgrades with improved material in the hot gas path components for
- better rupture strength.
- Steam Turbines (Units 11-12): Single-cylinder configuration , with Unit 11 upgraded to a new RX3i & PCVue control
- system in 2020.

Maintenance & Condition Summary

- Control Systems & Upgrades
- GT 5 & 6: Upgraded to GE Speedtronic Mark VIe in October 2015.
- GT 7 & 8: GE Speedtronic Mark IV.
- STG 11: Control system replaced with new RX3i & PCVue based system in 2020.
- STG 12: ALSTOM ALSPA Controsteam V3 commissioned in 2011.
- Hardware Enhancements: GT-5/6/7/8 underwent life time extensions in 2010-11. Stage 1, 2, and 3 buckets, nozzles, and shrouds were replaced with latest design materials.

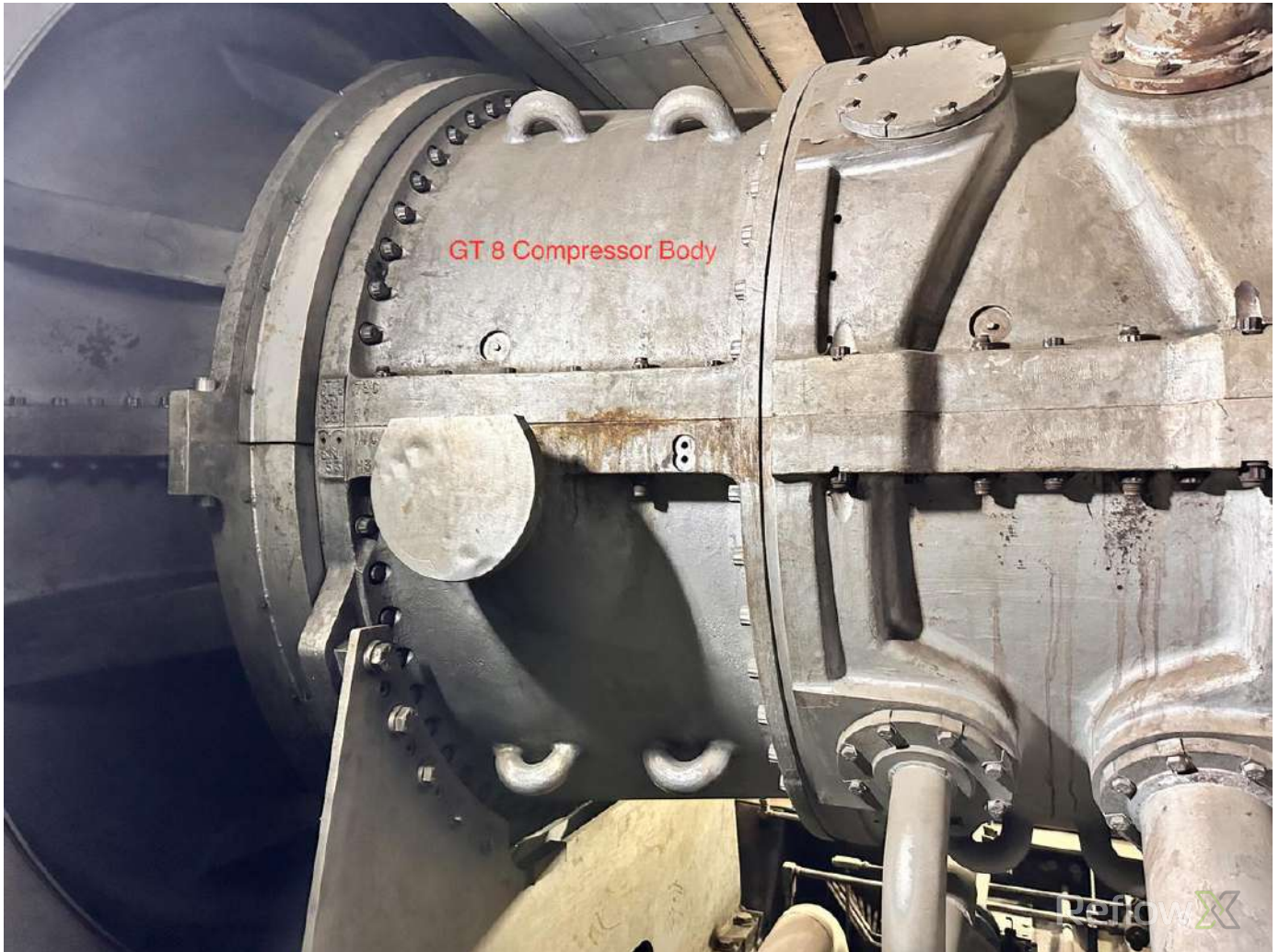
Scope of Supply

#	Component / Item
1	Gas Turbine Specifications
2	Base Load Rating: 82 MW on GAS. 79 MW on HSD / 79 MW on FO.
3	Turbine Inlet Temperature: 1093C on HSD. 1029C on FO.
4	Turbine Exhaust Temperature: 528C on HSD. 509C on FO.
5	Compressor Stages: 17.
6	Turbine Stages: 3.
7	No. of Combustors: 14.
8	Starting Device: 6.6 KV Motor. 1000 KW Induction Motor manufactured by GEC ALSTHOM.
9	Steam Turbine Specifications
10	Cylinders/Stages: 1 Cylinder. Single Cylinder with 12 HP & 5 LP stages.
11	HP Steam Inlet Pressure: 40 Bar.
12	Generator Specifications
13	Gas Turbine Generators (Units 5-8):
14	Manufacturer: ALSTHOM.
15	Type: T 229-320.

#	Component / Item
16	Rated Output: 125.95 MVA.
17	Rated Voltage: 11.5 KV.
18	Steam Turbine Generators (Units 11 & 12):
19	Manufacturer: ALSTHOM.
20	Type: T-229-320.
21	Rated Output: 121.647 MVA.
22	Rated Voltage: 11.5 KV.













Contact Information

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