

ReflowX

Ansaldo AE94.3A Combined Cycle Power Plant Equipment

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Description

Manufacturer	Ansaldo Energia
Model (gas turbine)	AE94.3A Gas Turbine & 3-Cylinder Steam Turbine
Year	2018
Condition	Preserved in storage
Qty available	1 complete combined cycle set (1 GT, 1 ST, 2 Generators)
Power Output	~418.2 MW Total Gross Output (~280.7 MW GT / ~137.5 MW ST)
Current Status	In preservation storage across various facilities
Starts	0
Running Hours	0
Frequency	50Hz
Configuration	Gas Turbine (single-shaft, cold-end drive) / Steam Turbine (indoor design)
Fuel Type	Dual Fuel (Natural Gas primary, Distillate Fuel Oil backup)
Application	Power Generation / Combined Cycle Power Plant (CCPP)

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Scope & Maintenance History

Included Components / Package Description

- Complete Gas Turbine: 1x AE94.3A complete gas turbine package (flange-to-flange) with an annular combustion chamber and 24 dry low NOx burners.
- Complete Steam Turbine: 1x Three-cylinder steam turbine unit designed for indoor installation, featuring a downward exhaust to the condenser, HP emergency stop and control valves, combined RH valves, and an AC motor-driven rotor turning gear device.
- Generators: 1x GT Generator main body and 1x ST Generator main body, both including pedestal bearings, slip ring housings, and slip ring housing filters.
- GT Auxiliaries: Fuel gas skid, fuel oil package, lube oil skid (with tank, main/auxiliary pumps, and heat exchangers), hydraulic oil system, compressor washing system, and a pneumatic system for blow-off actuation.
- Air & Exhaust Systems: Complete air intake system (including snow hoods, filter house, and inlet silencer) and exhaust gas duct with a conical diffuser.

Condition & Maintenance Notes

- The equipment maintains an adequate preservation status, with all preserving means adhering to Ansaldo Energia's original manual requirements and preservation reports.

Storage Conditions:

- The complete gas turbine, gas turbine generator, steam turbine high/medium pressure cylinders, steam turbine inner low-pressure cylinder, steam turbine rotor, and lube oil systems are currently stored in a warm, climate-controlled warehouse.
- The steam turbine generator stator is stored in a cold hangar.
- The steam turbine outer low-pressure cylinders and HRSG (Heat Recovery Steam Generator) modules are stored outdoors under canopies.

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