

ReflowX

Solar Turbines Centaur 40 Cogeneration Power Plant

Solar Centaur 40

Description

Manufacturer	Solar Turbines
Model (gas turbine)	Centaur 40 (Model 4701)
Year	1998 (Original Package) / 2021 (New Turbine Installed)
Condition	Used (In full operation until September 2024)
Qty available	1 complete cogeneration package
Power Output	3.5 MW (3500 kW) / Generator rated at 4375 kVA
Current Status	Decommissioned; all vessels drained and open to atmosphere
Running Hours	17,522 hours on new turbine (230,891 Total Package Hours)
Frequency	60Hz
Fuel Type	Natural gas
Configuration	Fully enclosed for outdoor use (1500 RPM)
Application	Power Generation / Cogeneration (CHP)

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Background & Upgrade History

- Complete Gas Turbine: 1x Solar Turbines Centaur 40 gas turbine, fully enclosed and designed for outdoor use.
- Generator: 1x Generator rated at 4375 kVA, 4160V, 3-phase.
- Cogeneration System: Includes a Co-Gen / Boiler for heat (CHP) and an economizer.
- Control & Monitoring: Equipped with Local & Remote Control Panels, plus a CEMS (Continuous Emission Monitoring System) cabinet.
- Drivetrain Auxiliaries: Includes a new wet coupling and a main Reduction Gearbox (RGB).

Background & Upgrade History

- Operational History: The equipment was in full operation up to September 2024, when it was replaced with fuel cells to meet updated emission regulations.
- Turbine Replacement: The original C40 turbine was fully replaced with a new unit by Solar in 2021. The new turbine has 17,522 logged hours, with supporting Solar reports available.
- Gearbox Replacement: The main Reduction Gearbox (RGB) was replaced with a new exchange unit by Solar in 2023, with reports available.
- Generator Maintenance: The generator was cleaned and tested (megger and PI) in January 2017. The overall condition supports a reported 2012 refurbishment.
- Storage & Inspection Status: All vessels have been drained and are open to the atmosphere. UT Testing records and other NDT performed on the steam plant are currently pending. All maintenance records were handled by Solar, are up to date, and available upon request.

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