

Complete 2 x Siemens SGT-400 Combined-Cycle Cogeneration (CHP) Plant

37.4 MW gross output | 50 Hz | Natural gas | Complete power island + balance of plant



37.4 MW	46%	50 Hz
Gross output	Combined-cycle efficiency	Natural-gas configuration

Offer basis: Supply only, Ex-Works. Used equipment, as-is/where-is, subject to inspection, documentation review and final Sales & Purchase Agreement.

Plant Overview

A complete matched cogeneration power island comprising two Siemens SGT-400 gas-turbine generator sets, two HRSGs, two extraction-condensing steam turbines, one supplementary gas-fired package boiler, and the principal electrical, fuel-gas, cooling-water, water-treatment, fire-protection and DCS balance-of-plant systems required for operation.

Parameter	Value and location
Gas turbines	2 x Siemens SGT-400, single-shaft, low-NOx
GT gross output	14.034 MW each / 28.1 MW total
Steam turbines	2 x C4.78 extraction-condensing steam turbines
ST output	4.681 MW each condensing / 9.4 MW total
Plant gross output	37.4 MW
Combined-cycle electrical efficiency	Approx. 46%
Fuel / frequency	Natural gas / 50 Hz
Generator voltage	10.5 kV
Grid evacuation	110 kV via 2 x 25 MVA transformers; double-busbar GIS
Condition	Used, as-is/where-is; available for inspection
Year of manufacture	To be confirmed from owner documentation / dossier
Operating hours / starts	To be confirmed from owner records and inspection
Country / location	Available to qualified buyer under controlled disclosure

Technical Specifications

Gas Turbine - SGT-400 (x2)

Type	Single-shaft gas turbine, simple-cycle
Compressor	11-stage axial; low-NOx combustion
Gross output	14.034 MW each / 28.1 MW total
Heat rate	10,298 kJ/kWh
Simple-cycle efficiency	35%
Generator	TFW15000-4, 10.5 kV
Fuel / frequency	Natural gas / 50 Hz
Ancillaries	CO2 fire suppression; turbine-hall lifting facilities

Steam Turbine - C4.78 (x2)

Type	Extraction-condensing steam turbine
Output - condensing	4.681 MW each / 9.4 MW total
Output - cogeneration mode	1.795 MW each
Generator	5 MW, 10.5 kV
Surface condenser	560 m² each
Auxiliaries	Vacuum and condensate pumps, turning gear, seals and auxiliary cooling

Heat Recovery, Boiler & Balance of Plant

HRSG (x2)	Single-pressure, unfired, natural-circulation; 20.9 t/h HP steam each (41.8 t/h total); 5.3 MPa / 450 C; 35 m stack; deNOx provision.
Supplementary package boiler	SZS20 gas-fired package boiler; 20 t/h; 1.45 MPa / 260 C; >=99% stated efficiency; approx. +1,420 Nm ³ /h additional gas demand.
Fuel-gas system	Natural-gas pretreatment skid, filtration, metering, pressure regulation/heating, chromatograph and booster compressors; GT fuel demand stated at approx. 8,100 Nm ³ /h for both GTs.
Cooling-water system	Mechanical-draft wet-recirculating cooling tower system with circulating-water pumps, cooling towers, travelling screens and forebay sump pump.
Electrical systems	110 kV double-busbar GIS; 2 x 25 MVA main transformers; 10 kV vacuum switchgear; station-service transformers; LV PCC/MCC; UPS and 220 V DC systems.
Water treatment	Ultrafiltration, two-stage RO and EDI train with demineralised-water storage, chemical dosing and membrane cleaning systems.
Fire / auxiliary systems	Fire-water pumps, hydrants, extinguishers, compressed air, lube-oil systems, boiler waste-heat hot-water systems and plant lifting facilities.
Control & instrumentation	Redundant DCS / MIS architecture with operator/engineering/history stations, redundant controllers, industrial Ethernet, firewalls and isolation gateways.

Scope of Supply

INCLUDED

- Complete power island: 2 x SGT-400 GT + generators
- 2 x HRSG
- 2 x C4.78 steam turbines + generators
- Supplementary SZS20 gas-fired package boiler
- Fuel-gas pretreatment skid and booster compressors
- Cooling-water system - pumps, towers and screens
- Electrical package - 110 kV GIS, 2 x 25 MVA transformers, MV/LV switchgear, UPS/DC
- Water-treatment package - UF / RO / EDI and chemical dosing
- Fire protection, balance-of-water and auxiliary systems
- Redundant DCS and MIS control systems
- Available technical documentation and inspection opportunity

EXCLUDED

- Transportation, freight, shipping and marine insurance
- Disconnection, removal and loading at current site unless separately agreed
- Import duties, customs clearance and in-country logistics
- Installation, commissioning, integration and re-erection
- Civil works, foundations and destination-site preparation
- Reconditioning, overhaul or refurbishment unless expressly stated
- Spare parts beyond those physically supplied with the plant
- Performance guarantees on used equipment / warranty beyond agreed OEM or seller scope
- Taxes and duties for purchaser account

Commercial Offer

Complete 2 x SGT-400 combined-cycle CHP plant

Currency	USD
Price basis	Supply only, Ex-Works
Condition	Used, as-is/where-is; subject to inspection
Payment	30% deposit on SPA signing / 70% before shipment (indicative; subject to final SPA)
Inspection	Purchaser account; specialist/OEM support at cost if requested
Availability	Subject to prior sale and receipt of cleared deposit
Validity	7 calendar days from submission, unless extended in writing
Documentation	Detailed dossier / owner records subject to buyer qualification and controlled disclosure
Year / operating hours	To be confirmed in the technical dossier and during inspection
Final terms	Subject to satisfactory KYC, technical due diligence, owner approval and executed SPA

Important: This document is an indicative commercial offer prepared from information currently available. Year of manufacture, operating hours/starts, exact location, serial numbers, maintenance history and final owner documentation must be verified through the formal due-diligence and inspection process. No representation should be treated as a performance guarantee until incorporated into an executed SPA.