



## Two (2) Hitachi H-25 Gas Turbine Generator Sets

32.7 MW (ISO) Simple Cycle | Natural Gas | 60 Hz / 13.8 kV | BRUSH 36,334 kVA

Item No. CTG-GTN-0112-01 & CTG-GTN-0112-02 • Condition: Surplus (used, as removed from service) • Location: India •

Availability: Immediate, subject to prior sale

### Executive Summary

CTG Power Systems Intl., LLC offers for sale two (2) Hitachi H-25 heavy-duty industrial gas turbine generator sets removed from a decommissioned host plant. Each unit is rated 32,700 kW (ISO) in open simple-cycle configuration on natural gas and is paired with a BRUSH 36,334 kVA, 13.8 kV, 60 Hz, 0.90 PF synchronous generator (65.4 MW combined). Manufactured 2012, commissioned 2014, and shut down in an orderly manner when the host plant was decommissioned in 2023, with approximately 21,000 recorded operating hours per unit. Each set is complete with brushless exciter, CACA-3 air-cooled generator cooler, and Hitachi AVR/ASS excitation control panel. These are 60 Hz machines suited to U.S. behind-the-meter, bridge, baseload, and cogeneration applications in the 30 to 65 MW range.



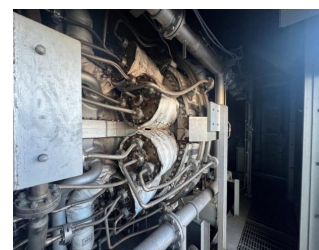
Generator set enclosure and inlet filter house



Package exterior, auxiliary modules and platforms



Turbine package, combustor / casing detail



Combustion section, fuel manifold and cans

### Key Specifications

| Gas Turbine (per unit)                    |                                              | Generator (per unit)                       |                                                                             |
|-------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|
| <b>Manufacturer</b>                       | Hitachi, Ltd.                                | <b>Manufacturer / Type</b>                 | BRUSH, horizontal-axis, salient-pole rotating field, 3-phase AC synchronous |
| <b>Model / Configuration</b>              | H-25, open simple cycle, single shaft        | <b>Capacity / Power Factor</b>             | 36,334 kVA / 0.90 lagging                                                   |
| <b>Rated Output (ISO)</b>                 | 32,700 kW per unit                           | <b>Voltage / Frequency / Speed</b>         | 13.8 kV / 60 Hz / 1,800 rpm                                                 |
| <b>Fuel</b>                               | Natural gas                                  | <b>Short-Circuit Ratio</b>                 | 0.44                                                                        |
| <b>Turbine Speed</b>                      | 7,251 rpm                                    | <b>Sync. Impedance (Design / Measured)</b> | 208% / 239% (No. 1); 208% / 232% (No. 2)                                    |
| <b>Compressor</b>                         | Axial flow, 17 stages                        | <b>Efficiency (1.0 PF / 0.9 PF)</b>        | 98.65% / 98.46% (No. 1); 98.66% / 98.47% (No. 2)                            |
| <b>Turbine Inlet / Outlet Pressure</b>    | 1.58 MPa / 1.10 kPa                          | <b>Cooling Method</b>                      | Indirect air cooling (stator and rotor)                                     |
| <b>Turbine Inlet / Outlet Temp.</b>       | 1,300 °C / 554 °C                            | <b>Insulation Class</b>                    | Class F (Class B rise), armature and field                                  |
| <b>Compressor Inlet / Outlet Pressure</b> | -1.3 kPa / 1.58 MPa                          | <b>Generator Cooler</b>                    | BRUSH CACA-3 air cooling (3 motors, 6.3 kW, 1,110 rpm)                      |
| <b>Compressor Inlet / Outlet Temp.</b>    | 4 °C / 443 °C                                | <b>Excitation System</b>                   | BRUSH brushless exciter (49 kW, 68 V, 722 A, 1 set)                         |
| <b>Exhaust Gas Flow (wet)</b>             | 314,000 m <sup>3</sup> N/h                   | <b>Excitation Control Panel</b>            | Hitachi, Ltd., includes AVR and ASS                                         |
| <b>NOx Emission</b>                       | 25 ppm (at 16% O <sub>2</sub> , dry)         |                                            |                                                                             |
| <b>SOx / Particulate</b>                  | 0 m <sup>3</sup> N/h / 0 mg/m <sup>3</sup> N |                                            |                                                                             |
| <b>Built / Commissioned / Shutdown</b>    | 2012 / 2014 / 2023                           |                                            |                                                                             |
| <b>Operating Hours (as recorded)</b>      | Approx. 21,000 hrs per unit                  |                                            |                                                                             |

Rated output and cycle data are as recorded on the manufacturer's data sheet at the original site and design conditions. Site rating at the purchaser's location depends on ambient temperature, elevation, and fuel specification and will be confirmed in CTG's formal proposal.

## Scope of Supply (per unit, to be confirmed in formal proposal)

| Item                                                                                                                                                      | Status                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Hitachi H-25 gas turbine, complete, with 17-stage axial compressor, combustion system, and power turbine, as removed from service                         | Included                                            |
| BRUSH 36,334 kVA / 13.8 kV / 60 Hz synchronous generator with brushless exciter and CACA-3 air-cooled generator cooler (3 motors)                         | Included                                            |
| Hitachi excitation control panel with automatic voltage regulator (AVR) and automatic synchronizer (ASS)                                                  | Included                                            |
| Turbine control system, package auxiliaries, lube-oil system, starting system, inlet air filtration, and exhaust components as installed at the host site | Included; inventory to be confirmed on inspection   |
| Manufacturer technical documentation, operating and maintenance records, and as-available spare parts inventory                                           | Included; listed in formal proposal                 |
| Dismantling, packing, and transport                                                                                                                       | Not included unless quoted                          |
| Step-up transformer, switchgear, and interconnection                                                                                                      | Not included; CTG can quote from core product lines |
| Exhaust after-treatment (SCR / CO catalyst) where required by the purchaser's air permit                                                                  | Not included; CTG can quote                         |
| Reconditioning or major inspection prior to shipment; installation, commissioning, training, long-term service                                            | Not included unless quoted                          |
| Shipping weights and dimensions                                                                                                                           | To be provided                                      |

## Applications and Notes

- Behind-the-meter, bridge, and baseload natural-gas generation, 30 to 65 MW.
- Combined-cycle or cogeneration configurations using the 554 °C exhaust for heat recovery.
- 25 ppm NO<sub>x</sub> (dry, 16% O<sub>2</sub>) supports permitting under 40 CFR Part 60 Subpart KKKK in many U.S. jurisdictions, as-is or with SCR where a lower limit applies. Applicability of Subpart KKKK, Title V, PSD/NSR, and state rules depends on the installation site.
- 60 Hz machines. Most pre-owned heavy-frame turbines on the market are 50 Hz, so these units avoid frequency conversion for U.S. deployment.
- The H-25 product line is supported by Mitsubishi Power (successor to Mitsubishi Hitachi Power Systems).
- Available for physical inspection by the purchaser or its appointed engineer, including visual inspection, records review, and, subject to site conditions, borescope inspection of the hot-gas path. Maintenance history, inspection reports, nameplate images, and additional photographs are available under non-disclosure agreement.

## Commercial Terms

- Offered for outright sale, ownership basis. Not available for lease or rental.
- Sold as-inspected, as-recorded. CTG makes no representation as to remaining life beyond the manufacturer's published inspection intervals and the recorded operating history; the purchaser is responsible for its own technical evaluation.
- Sole-source, principal-to-principal engagement directly with the ownership of the end-user project. CTG does not participate in competitive tenders or transact through intermediaries.
- Pricing stated in U.S. dollars in the formal proposal; Incoterms® 2020 basis to be stated. Payment by bank wire transfer against defined milestones. Letters of credit and credit cards are not accepted.
- For bridge or defined-term projects, CTG will consider a remarketing or buy-back arrangement at end of term, to be negotiated in the definitive agreement.
- Any sale is subject to U.S. export-control (BIS/EAR), OFAC sanctions, and FCPA/KYC compliance screening of the purchaser and end user.
- Governing law: State of Florida, venue Hillsborough County, USA. Subject to prior sale. This document does not constitute an offer capable of acceptance or a reservation of equipment.

**Next step:** request the formal proposal, arrange an inspection, or ask for records under NDA. Reference Item No. CTG-GTN-0112-01 & 02.

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