2 × GE LM2500+G4 DLE COMBINED CYCLE PLANT

[redacted]

Turbine Package

GAS TURBINES 50 / 60 Hz SWITCHABLE

Complete GE LM2500+G4 DLE combined cycle plant: two aeroderivative gas turbine generator sets of 33.6 MW each (core engines manufactured in the United States in 2013), two boiler packages (HRSGs), and one 25 MW steam turbine package. Both gas turbines have zero fired hours — they were packaged in ~2019, static tested, delivered to site in 2021, and commissioned in 2022 with high-speed crank only, as natural gas was never made available at the site.

Both gas turbines are switchable 50/60 Hz machines and all gas turbine auxiliaries are switchable to 60 Hz; this term sheet presents gas turbine specifications at 60 Hz. The steam turbine as supplied is a 50 Hz machine (see Supply Scope). The LM2500 family is GE's flagship aeroderivative line, derived from the CF6 aircraft engine, with millions of fleet operating hours, high availability and fast start.



Plant As Installed — Gas Turbine Enclosure, HRSG and Exhaust Stack

2 × 33.6 MW	**0 Hours**	**50/60 Hz**	[redacted]
GT Output Each (ISO, Simple Cycle, 60 Hz DLE) — 67.2 MW Total	Zero Fired Hours	Gas Turbines Switchable	Per Gas Turbine Package, As-Is Where-Is

All specifications are nominal values at ISO conditions. Actual performance may vary based on site conditions and fuel quality. Sold as-is, where-is. Subject to prior sale and contract.

TECHNICAL PERFORMANCE — ISO CONDITIONS (60 Hz)

Ratings at ISO conditions (59 °F / 15 °C, sea level, 60% RH, no inlet/exhaust losses, natural gas). The gas turbines are switchable 50/60 Hz models; gas turbine specifications in this sheet are shown at 60 Hz. Actual performance varies with site conditions, altitude, ambient temperature and fuel.

Parameter	Specification
Gas Turbines	Two (2) × GE LM2500+G4 DLE — 33.6 MW output each (60 Hz, DLE), 67.2 MW total; core engines manufactured in the United States, year of manufacture 2013. Serial Nos. 678-192 and 678-186
Configuration	Two-spool aeroderivative • 17-stage HP compressor with zero-stage (+G4 boost) • annular DLE combustor • 2-stage HP turbine • 6-stage power turbine
Efficiency / Heat Rate	~39.4% (LHV) • ~8,650–8,750 Btu/kWh (~9,130 kJ/kWh) simple cycle
Exhaust	~205–209 lb/s (~93 kg/s) per gas turbine at ~527 °C (~981 °F)
Emissions (DLE)	Low NOx / CO without water injection (25 ppm NOx and CO) • dual-fuel options
Frequency / Speed	Gas turbines switchable 50/60 Hz — shown at 60 Hz; power turbine and generator at 3,600 rpm
Alternators	Two (2) × Brush TURBOGENERATOR, frame BDAX 71-193ER — 60 Hz, 3,600 rpm; ~38,000–45,000 kVA (≈45 MVA at 0.85–0.9 power factor); 13.8 kV (11–13.8 kV range); net electrical output ~34–36 MW
Control System	Fanuc RX3i sequence control • Woodward MicroNet Plus fuel control (included in the complete plant configuration only)
Boilers (HRSG)	Two boiler packages converting GT exhaust to steam for the steam turbine
Steam Turbine	25 MW package — 50 Hz (3,000 rpm), condensing, non-reheat industrial type (included in the complete plant configuration only)
Plant Gross Output	~92–95 MW combined cycle (2 × GT ~33.6 MW + ST ~25 MW)
Plant Efficiency	~52–56% (LHV) unfired; higher with duct firing

Frequency note. Both gas turbines and their auxiliaries are switchable between 50 Hz and 60 Hz. The 25 MW steam turbine supplied with the complete plant is a 50 Hz (3,000 rpm) machine. A 60 Hz combined-cycle installation will not work without replacing the generator in the [redacted]

TECHNICAL PERFORMANCE — OEM REFERENCE (60 Hz POWER GENERATION)

Manufacturer catalogue ratings for the LM2500+G4 (60 Hz) power-generation configuration (Baker Hughes PGT25+/LM2500+G4 platform), Dry Low Emissions (DLE) combustion. All values are nominal at ISO conditions.

Parameter	DLE
Power output (MW)	33.6
Efficiency (%, LHV)	39.4
NOx emissions (ppm)	25
Exhaust temperature (°C)	527
Power-turbine speed (rpm)	3,600
Boroscope inspection (hours)	8,000
Hot-section inspection (hours)	25,000
Major inspection (hours)	50,000
Package dimensions (m)	16 × 3.4

- **ISO basis:** natural gas fuel, 15 °C ambient, sea level, 60% relative humidity, no inlet or exhaust losses. Package dimensions include driven equipment.
- **Maintainability:** the gas generator and low-pressure (power) turbine are each individually removable and replaceable, with full engine replacement in approximately 48 hours. An optional extended maintenance plan increases the boroscope interval by 2,000 hours, hot-section inspection by 5,000 hours and major inspection by 10,000 hours.
- **Fuel flexibility:** operates on a wide range of gas and liquid fuels while holding NOx and CO to 25 ppm via the DLE1.5 combustion system.
- **Proven technology:** the LM2500 gas-generator platform has accumulated more than 100 million industrial operating hours, with over 350 million aircraft-engine flight hours across the family.

Source: Baker Hughes — PGT25+/LM2500+G4 aeroderivative gas turbine (34 MW, 50/60 Hz), 60 Hz power-generation ratings (bakerhughes.com).

EMISSIONS (60 Hz, NATURAL GAS)

GE LM2500 Gen 4 (LM2500+G4) DLE — emissions on natural gas, applicable to both simple-cycle and combined-cycle operation. Typical values at full load, corrected to 15% O_2.

Pollutant	Level
Without SCR — DLE combustion only	
NOx	Guaranteed ≤ 25 ppm (often ~15–20 ppm achievable on LM2500 / LM2500+ family models; the G4 follows similar performance).
CO	Guaranteed ≤ 25 ppm.
With SCR (+ oxidation catalyst) — recommended for combined cycle	
NOx	Typically reduced to single-digit ppm (e.g. < 5–10 ppm), depending on system design, ammonia-slip limits and site requirements; exact guarantees vary by project.
CO / other	Further reduced by the oxidation catalyst.

- DLE (DLE1.5) is a lean-premixed combustion system achieving the above NOx and CO levels without water or steam injection.
- Emissions performance holds across a wide load range (e.g. 75–100% load). The engine is dual-fuel capable; best emissions performance is achieved on natural gas.
- Combined-cycle benefit: the efficiency gain lowers CO_2e intensity by roughly 20–30% per MWh versus simple cycle.

COMBINED-CYCLE PERFORMANCE — 2×1 (TWO GAS TURBINES + HRSG + STEAM TURBINE)

Estimated performance for the plant as configured: two GE LM2500+G4 DLE gas turbines + optimized HRSGs + one ~25 MW steam turbine. Values are estimates at ISO conditions on natural gas (LHV basis).

Key Assumptions

- Gas turbines (simple cycle): ~34–36 MW net output each at ~39–40% efficiency (heat rate ~8,650–8,750 Btu/kWh). A representative midpoint of ~35 MW / 39.5% per unit — ~70 MW for the two units — is used for the DLE packages.
- Optimized HRSGs: two boiler packages, high-efficiency, dual- or triple-pressure, with supplementary firing if needed; the base case assumes unfired HRSGs.
- Steam turbine: one ~25 MW machine as supplied, 50 Hz (3,000 rpm), taking exhaust heat from both gas turbines.

Parameter	Estimate
Gas-turbine output (simple cycle)	~34–36 MW net each; ~68–72 MW for both (rep. ~70 MW)
Gas-turbine efficiency (simple cycle)	~39–40% LHV; heat rate ~8,650–8,750 Btu/kWh
Steam-turbine output	~20–28 MW (rep. ~25 MW), 3,000 rpm (50 Hz)
Total net CC power output	~92–95 MW (2 × GT ~35 MW + ST ~23–27 MW, net of auxiliaries and HRSG backpressure)
Overall CC thermal efficiency	~52–56% (LHV)
Efficiency uplift vs. simple cycle	+13–17 percentage points
CC net heat rate	~6,100–6,600 Btu/kWh
Exhaust-heat recovery	GT exhaust (~500–550 °C) drives the steam cycle, boosting overall fuel utilization

Rough calculation (midpoint values). Combined GT fuel input (simple cycle): ~70 MW ÷ 0.395 ≈ 177 MW thermal. CC total output ~95 MW → gross efficiency = 95 ÷ 177 ≈ 53.6%. Net efficiency, after losses and auxiliary loads, lands in the ~52–56% range, consistent with aeroderivative CC plants.

- These are estimates based on public GE Vernova / Baker Hughes data, typical aeroderivative CC performance and industry benchmarks. Actual results require site-specific modelling (ambient temperature and humidity, HRSG design, steam conditions, duct firing).
- A single 25 MW steam turbine is well matched to the exhaust energy of two LM2500+G4 gas turbines.
- Estimates for planning only; not a performance guarantee.

CURRENT CONDITION — ZERO FIRED HOURS

Neither unit has ever been fired. Complete history:

- Both core engines manufactured in the United States in 2013 — zero fired hours.
- [redacted]
- Delivered to site 2021; installation and commissioning 2022 — high-speed crank only, never fired (natural gas not available at site).
- Customer has executed a high-speed crank every month as preservation maintenance.
- Steam turbine and boiler packages likewise unfired / untested in operation — performance guarantees based on OEM curves adjusted for site conditions.

Condition status: both units zero hours fired at site — new and unfired, with monthly crank preservation since 2022.

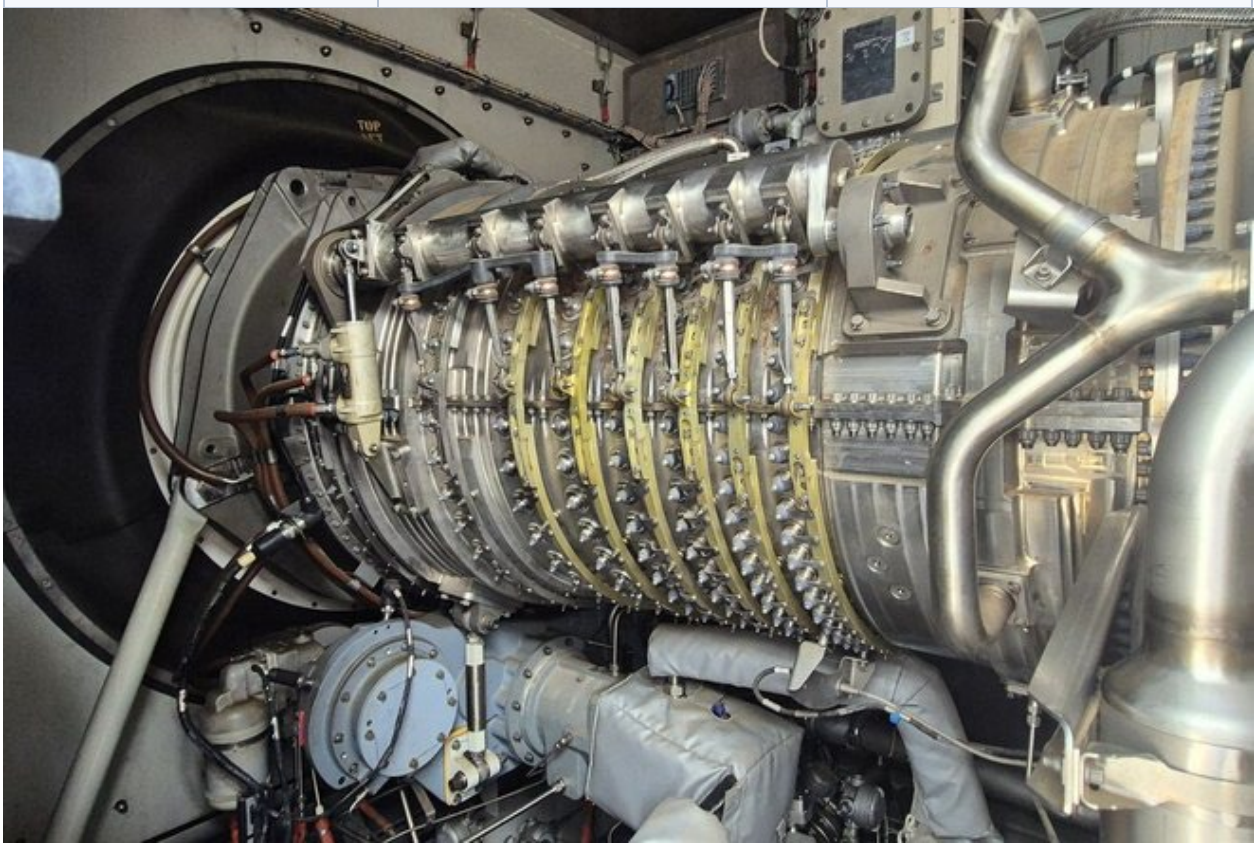
Nameplate Data

Item	Detail
Nameplate	LM2500 GAS GENERATOR SECTION — General Electric Company, Cincinnati, OH 45215
Model No.	PLM2500-RD-MGD… (stamped; partially legible in photographs)
Unit 1 — Serial No.	678-192
Unit 2 — Serial No.	678-186
Year of manufacture	2013 (both units)
Certification	DNV-OSL-2006-ATEX-0035 X • CE • Ex II 3G • −20 °C ≤ Ta ≤ 85 °C
Component nameplates photographed	Gas Generator Section, S/N 678-154, dated 2013 • Power Turbine Assembly, LM2500, S/N 678-186 (MFR code 07482, 102A408P03), Cincinnati, Ohio

Verification note. Major assemblies carry their own serial numbers: the Gas Generator Section and the Power Turbine Assembly are separately plated. Buyer is to reconcile all nameplate, build, packaging and preservation records against original equipment documentation during the due-diligence period.

SUPPLY SCOPE

Item	[redacted]	[redacted]
Gas turbines	Two × GE LM2500+G4 DLE, 33.6 MW each (60 Hz), 2013, zero hours fired	Included (per unit or both)
Alternators	Two × Brush TURBOGENERATOR BDAX 71-193ER, ~45 MVA, 13.8 kV	Included
GT auxiliaries	Hydraulic, air inlet filter, ventilation, turbine and generator lube oil, vibration monitoring, CO_2 firefighting, water wash	Included — all switchable to 60 Hz
Boiler packages (HRSG)	Two boiler packages	Not included
Steam turbine	One 25 MW package, 50 Hz (3,000 rpm)	Not included
Cooling towers	Included	Not included
Transformers	Included	Not included
Control system	Fanuc RX3i sequence control; Woodward MicroNet Plus fuel control	Not included



LM2500+G4 DLE Gas Generator — Package Interior

PRICING

Configuration	Scope	Price (USD)
Complete plant	LM2500+G4 DLE gas turbine generator set and all auxiliaries, taken together with the plant — two boiler packages (HRSGs), the 25 MW / 50 Hz steam turbine package, cooling towers, transformers and controls	[redacted] turbine package [redacted] complete plant (both units)
Gas turbine package only	LM2500+G4 DLE gas turbine generator set with all auxiliaries, all switchable to 60 Hz. Excludes the steam turbine, HRSGs, cooling towers, transformers and controls	[redacted] turbine package [redacted] units

Prices are per gas turbine package. Two gas turbine packages are available; a single unit may be acquired. **Condition of sale: as-is, where-is.** Prices are ex-site as-is, where-is, with no warranty as to the condition of any asset. Buyer is to satisfy itself as to condition, completeness and fitness for purpose by inspection during the due-diligence period.

COMMERCIAL TERMS

Stage	Terms
1. Exclusivity deposit	One quarter of one point (0.25%) of the purchase price, refundable, securing a 30-day [redacted]
2. First payment — 50%	50% of the purchase price down. On receipt, buyer has the right to dismantle and package the equipment.
3. Final payment — 50%	Remaining 50% of the purchase price upon the equipment being packaged and ready to ship.

[redacted]

[redacted]

- Dismantling of the plant and removal of the 60 Hz capable equipment at site
- Packaging of the 60 Hz capable equipment for overseas shipment
- Total transfer of the equipment to the port
- Export documentation and paperwork
- Dismantling and disposal of the remaining 50 Hz equipment

DELIVERY & AVAILABILITY

IMMEDIATELY AVAILABLE

Both units were purchased new from GE and manufactured in Cincinnati, Ohio, USA, then shipped to China for installation. The installation sites depended on natural gas pipelines being extended to the sites; those pipelines were never built, and LNG shortages in China led to cancellation of the project. As a result, the plant is for sale and immediately available.

Indicative Logistics — Return Shipment to the USA

Stage	Timeline	Indicative Cost (USD)
On-site or real-time video inspection (during due-diligence period)	Before order	At cost
Disassembly & packaging for shipment	3–5 weeks	[redacted]
Ocean shipping & insurance to Long Beach or Houston	3–6 weeks	[redacted]
Port to customer location inland delivery	1–2 weeks	Quoted separately
Import tariffs (U.S.-made product returning to the USA)	—	None

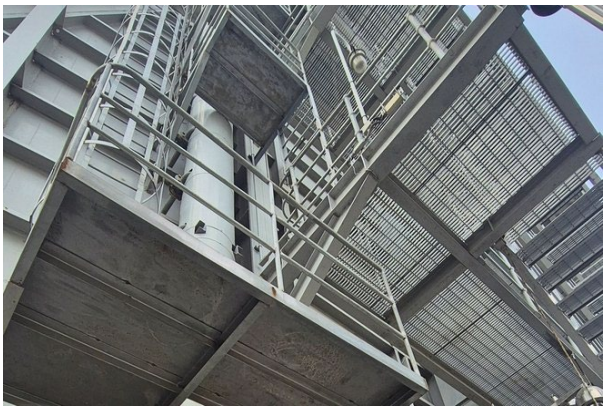
- **Not included in the purchase price.** Logistics figures above are indicative estimates for planning only and are quoted separately. Equipment is sold as-is, where-is.
- **Total lead time:** roughly 10–14 weeks from the first payment to arrival in the customer location (3–5 weeks disassembly and packaging + 3–6 weeks ocean transit + 1–2 weeks inland).
- **Tariffs:** as U.S.-origin equipment (made in Cincinnati, Ohio) returning to the United States, the units are expected to qualify for duty-free treatment as U.S. Goods Returned. Buyer to confirm classification with its customs broker.
- **Inspection:** an on-site or real-time video inspection is available within the 30-day exclusive due-diligence period; the engineer's travel and expenses are at cost.

SITE PHOTOGRAPHS — EQUIPMENT AS INSTALLED

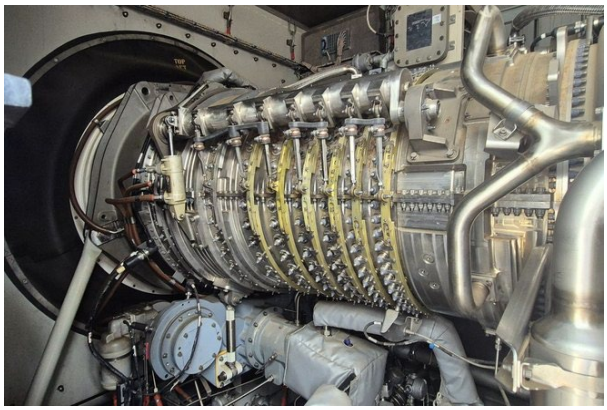
The following photographs document the equipment as installed at site.



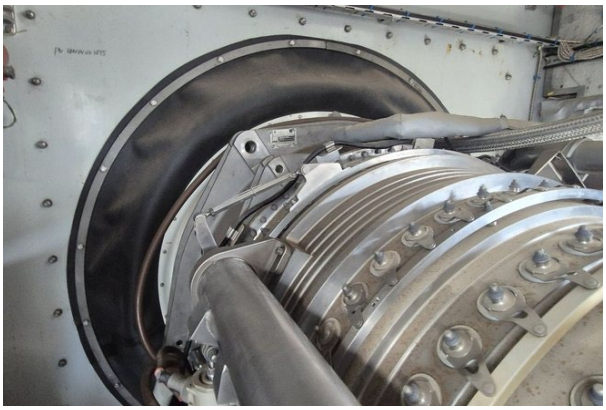
Plant as installed. Gas turbine enclosure, HRSG and exhaust stack.



HRSG structure. Boiler steelwork, access platforms and steam piping.



Gas generator — package interior. Compressor and combustor section, LM2500+G4 core engine.



Gas generator front frame. Inlet plenum and forward casing within the package enclosure.

Photographs are provided for identification purposes only and do not constitute a representation as to condition or completeness.

TRANSACTION PROCESS & CONTACT

- **Confidentiality.** This term sheet is presented under NCNDA. Full technical data packs — specifications, maintenance and preservation records, and borescope reports where available — are released to qualified buyers following execution of confidentiality documentation and confirmation of funding capability.
- **Exclusivity.** A refundable deposit of one quarter of one point (0.25%) of the purchase price secures a 30-day exclusive period to complete due diligence.
- **Inspection.** On-site or real-time video inspection with witnessed crank testing is arranged within the exclusive period, prior to contract.
- **Payment.** 50% down, at which point buyer has the right to dismantle and package; the remaining 50% is due upon the equipment being ready to ship.
- [redacted], ex-site. Dismantling, overseas packaging, total transfer and export paperwork are available [redacted]
- **Availability.** All units are subject to prior sale. First come, first served.