

SALES OFFER

4 Used CHP Units
ENGUL 310 XACB



Figure: existing open-skid CHP units in the engine room

4 units identical configuration	approx. 4,700 mth low operating hours*	Syngas previous operation	approx. 1.0 MWe documented operating point
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GREEN POWER RS, s.r.o.

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* Operating hours according to the information currently provided by the seller; meter readings are to be confirmed before conclusion of the purchase agreement.

1. Scope of Offer

Four used ENGUL 310 XACB CHP units in open-skid configuration are offered for sale. Each unit consists of a gas engine, generator and the respective existing technical assemblies. The units have previously been operated on syngas/synthesis gas and are suitable for professional operators, plant builders and projects involving reuse, overhaul or technically verified conversion to another gaseous fuel.

A major advantage is the comparatively low operating time of approximately 4,700 engine hours. Photographic documentation and operating displays are also available, documenting synchronous parallel operation of all four units.



Documented parallel operation: approx. 249-252 kW active electrical power per unit, 50 Hz and approx. 1,500 rpm at the time shown.

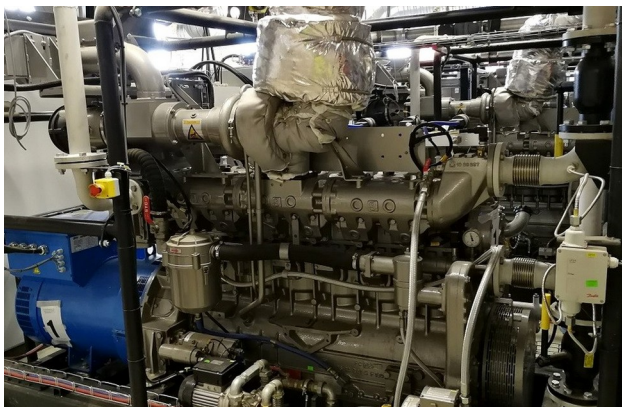
Note on power rating: The available project information states 310 kWe per unit. However, the available operating displays show approximately 249-252 kW per unit at the documented operating point. A binding nominal output of 310 kWe will therefore only be warranted after comparison with the complete original documentation and/or manufacturer confirmation.

2. Technical Data - Based on Available Documents and Nameplates

Quantity	4 CHP units
Type / integrator	ENGUL 310 XACB / Engul s.r.o.
Previous fuel	Syngas / Synthesegas
Documented operating point	approx. 249-252 kW per unit; approx. 1.0 MW total
Speed / frequency	ca. 1.499-1.501 min ⁻¹ / 50,0 Hz
Engine base (example nameplate)	SIEMENS / Guascor Power S.A., SGE-18SL; 263 kW at 1,500 rpm; nameplate date 25 Jan 2018
Generator (example nameplate)	Leroy-Somer PARTNER, LSA 46.2 VL12; 1,500 rpm; 50 Hz; 400 V; continuous rating on nameplate 315 kVA
Control cabinet (example nameplate)	Engul RF-CF; 3x400/230 V; 447 A; 50 Hz; year of manufacture 2018
Operating hours	approx. 4,700 mth according to available information
Configuration	Indoor installation / open skid on base frame, without container
Dimensions per unit	approx. 3,600-4,000 x 1,300-1,500 x 2,000-2,200 mm (L x W x H)
Dry weight per unit	approx. 3,500-4,500 kg, depending on configuration and operating fluids

3. System Configuration and Existing Equipment

The photographic documentation shows the units as stationary CHP modules installed in an engine room. Visible equipment includes the engine-generator skids, separate control cabinets, piping and heat-recovery components, as well as recooling equipment. The binding scope of supply will be defined before purchase on the basis of a joint inventory and dismantling list.



Engine-generator unit on base frame



Control cabinet lineup / control system



Heat recovery and piping equipment



Outdoor recoolers

4. Conversion to Natural Gas - Included in the Sales Price

Conversion of all four existing CHP units from syngas operation to natural gas is part of this offer and is already included in the sales price of each unit. The conversion includes the technical modifications required to operate the existing unit on natural gas within the agreed scope of supply. The final configuration will be defined on the basis of the existing engine and control configuration and a technical inspection before conversion work begins.

Planning assumption - electrical output	310 kWe per unit / 1,240 kWe total
assumed electrical efficiency after conversion	ca. 39-40 %
Natural-gas demand per unit	approx. 80-85 Nm ³ /h at full load
Natural-gas demand for 4 units	approx. 320-340 Nm ³ /h at full load
Preliminary sizing of main gas regulating station	minimum continuous flow approx. 350 Nm ³ /h for 4 units (including reserve)
Preliminary sizing of main gas line	approx. DN 100-DN 125; final sizing by a qualified gas engineer based on pressure-loss calculation
Required gas pressure at connection	normally approx. 2-5 kPa at the gas connection of each unit
Assumed natural-gas calorific value	ca. 9.5 kWh/Nm ³ (ca. 34,2 MJ/Nm ³)
Required fuel energy input	approx. 775-795 kW per unit at 310 kWe and 39-40% electrical efficiency
Total fuel energy input for 4 units	approx. 3.10-3.18 MW at full load

Technical note: For natural-gas operation, a gas pressure of approximately 2 to 5 kPa is normally required at the gas connection of each unit. The stated consumption values are preliminary estimates based on a calorific value of approx. 9.5 kWh/Nm³ and an electrical efficiency of 39-40% and do not constitute a consumption guarantee. Final adjustment and functional testing will be carried out as part of the conversion and commissioning.

5. Indicative Fuel Comparison

To indicate the required gas volume flows, the following comparison shows the approximate order of magnitude at 310 kWe electrical output per unit and a uniformly assumed electrical efficiency of 35%. It is intended solely for preliminary planning and is not a guaranteed operating value.

Fuel	assumed calorific value	1 unit	4 units
Wood gas	ca. 5 MJ/Nm ³ = 1,39 kWh/Nm ³	ca. 638 Nm ³ /h	ca. 2.552 Nm ³ /h
Biogas	ca. 21 MJ/Nm ³ = 5,83 kWh/Nm ³	ca. 152 Nm ³ /h	ca. 608 Nm ³ /h
Natural gas	ca. 34 MJ/Nm ³ = 9,44 kWh/Nm ³	ca. 94 Nm ³ /h	ca. 376 Nm ³ /h

Why the two natural-gas values differ: 376 Nm³/h corresponds to the conservative comparison calculation at 35% efficiency. The conversion planning value of 320-340 Nm³/h assumes 39-40% efficiency. Both values are calculation assumptions and must be verified before detailed engineering.

6. Key Sales Advantages

- Comparatively low operating hours of approx. 4,700 mth.
- Four identical, modularly operated units - attractive for staged load operation and redundancy.
- Documented synchronous parallel operation with approximately 1 MW total electrical output at the operating point shown.
- High-quality main components from Siemens/Guascor and Leroy-Somer, combined with Engul control technology.
- The open-skid configuration provides good accessibility for dismantling, overhaul, servicing and conversion.
- An attractive solution for operators seeking natural-gas use: the agreed natural-gas conversion is already included in the equipment price. Subject to technical assessment, the existing base may also offer potential for other gas projects.



System visualization with four units operating in parallel; total output at the moment shown is approximately 1 MW.

7. Scope of Supply and Exclusions

The final scope of supply will be defined prior to contract conclusion on the basis of a joint inventory list. In principle, the four used ENGUL CHP units are offered in their existing configuration.

- 4 x ENGUL 310 XACB engine-generator unit on open-skid base frame.
- Existing unit-specific components according to the inventory.
- Existing technical documentation, to the extent available from the seller.
- Photographic documentation and available nameplate data.

Unless expressly agreed in writing, the equipment price does not include dismantling, crane work, loading, packaging, transport, reinstallation, site utility connections, grid connection, permits or emissions documentation. Conversion to natural gas is included in the sales price of each unit. Installation and commissioning are offered separately in accordance with Section 8.

8. Purchase Price and Commercial Terms

Sales price per unit	EUR 50,000.00 net per unit - including existing accessories and conversion to natural gas
Package price for 4 units	EUR 200,000.00 net - 4 units including natural-gas conversion
VAT	plus statutory VAT, where applicable
Payment terms	to be agreed before conclusion of the purchase agreement or placement of the order
Delivery terms	ex site / as agreed
Availability	by arrangement; subject to prior sale
Inspection	possible and recommended by prior appointment
Installation and commissioning	EUR 20,000.00 net - approx. 3 weeks on site, 2 technicians
Travel and accommodation costs	hotel and flight costs not included; charged separately at actual cost / against receipts
Total equipment + installation/commissioning	EUR 220,000.00 net plus hotel and flight costs
Included in equipment price	4 used ENGUL 310 XACB units with existing unit-specific accessories and conversion of each unit to natural gas
Installation scope	installation and commissioning of all 4 units; calculated with 2 technicians for approx. 3 weeks
Not included	hotel, flights, dismantling/crane/transport, and site utility, gas and grid connections unless separately agreed

Natural-gas conversion price scope: The sales price of EUR 50,000.00 net per unit includes the used CHP unit, the existing accessories and conversion to natural gas. The equipment price for all four units is EUR 200,000.00 net. On-site installation and commissioning are offered at EUR 20,000.00 net for 2 technicians over approximately 3 weeks. Hotel and flight costs are not included and will be charged separately.

9. Condition and Technical Reservations

The equipment is used technical machinery. Inspection and examination by the buyer or the buyer's qualified personnel prior to contract conclusion is recommended. Operating hours, serial numbers, exact scope of supply, functionality and technical data will be cross-checked against the original documentation and the existing equipment before the contract is concluded.

Only characteristics expressly warranted in the purchase agreement or order confirmation are binding. Performance, consumption and conversion data identified as indicative or preliminary planning values do not constitute a guarantee.

10. Contact

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Thank you for your interest. We will be pleased to provide further documentation and coordinate a technical inspection of the equipment.

Appendix: Nameplates and technical photographic documentation



Engine - Siemens / Guascor



Generator - Leroy-Somer



Control cabinet - Engul



Heat recovery / piping



Recooling equipment