

Yes, I too want to... generate my own electricity and heat!

I am interested in an Energator® to generate my own electricity and heat. Please prepare a quotation with no obligation.

My annual energy consumption is...

Heating oil/gas: _____ l/a; m³/a Costs/a: _____ €

Electricity: _____ kWh/a Costs/a: _____ €

My details:

Name _____

Street _____

Post code/Place _____

Telephone _____ E-mail _____



Made in Puchheim, Germany
since 1971

GIESE Energator® CHPUs

An Energator® excels by....

- ✕ Manufactured since 1986 by a family-run German company
- ✕ Comprehensive type range: also for rapeseed oil and biogas fuels
- ✕ Immediate cost reductions
- ✕ High-tech microprocessor control
- ✕ Servicing by your specialist dealer
- ✕ Save approx. 30% primary energy in your building

“CHPUs for Professionals!”
Delivery and installation through specialist dealers!



GIESE Energie- und Regeltechnik GmbH
Huchenstr. 3 - 82178 Puchheim
Tel.: 089 / 800 653 - 0
Fax: 089 / 800 653 - 28



GIESE
ENERGIE- UND
REGELTECHNIK

www.Energator.de

What is an Energator® CHPU*?

A CHPU (combined heat and power unit) consists of a gas or oil-operated internal combustion engine. This engine is coupled to a generator to produce electricity. The heat produced by the engine and exhaust system during operation in the CHPU is efficiently utilised to generate heat and electricity.

Only industrial engines correspondingly optimised by Giese for CHPU operation are used in Energator® CHPUs. By using multi-cylinder engines that run at a constantly low speed of 1500 rpm a long service life is ensured while reducing operating noise to a minimum.

Why an Energator® CHPU*?

The electricity you get from a socket is generated at only 35% efficiency. The heat generated in power stations is simply wasted by directing it into cooling towers or bodies of water. This corresponds to the amount of energy required to constantly heat approx. 36 million single-family houses for one year. This means consumers must again purchase this wasted energy as heating energy, consequently further adding to environmental pollution.

Up to 90% of the energy used in cogeneration (CHPU) is utilised to generate 1/3 power and 2/3 heat, thus saving energy, the environment and money.

*The term cogeneration is also used for CHP (combined heat and power)



Range of Types

Five different output sizes offer ample capacity in mono and bivalent Energator® operation. The performance spectrum starts at 4 kW_{el} and goes all the way up to 49 kW_{el} (= 8 kW_{th} up to 90 kW_{th}). An Energator® operates as standard in parallel with the mains. The Energator® is optionally available as a standalone or emergency power unit. liefern.

2-Stage Control

Whether summer or winter, an Energator® should keep on running. When heat requirements are low in summer, our control system cuts back Energator® output from 100% to 60%.



Giese Service

The service life of an Energator® ultimately depends on proper routine servicing and maintenance. You have the choice of concluding standard, partial or full service agreements with extended warranty. After qualified training, your service department will be able to undertake the service work.

Giese Controller

An easy-to-use control system lies at the heart of each Energator® CHPU. Each Energator can be optionally equipped with a modem to enable telemonitoring. The systems can also be equipped with MOD or Profi-Bus facilities to connect to building installations.



Our 2-Stage controlled Energator® CHPUs

2,4/4,0 kW _{el}	4,8/8,0 kW _{el}
3,3/5,5 kW _{el}	6,0/10,0 kW _{th}
4,5/7,5 kW _{el}	9/15 kW _{th}
9/15 kW _{el}	18/30 kW _{th}
15/25 kW _{el}	27/45 kW _{th}
18/30 kW _{el}	36/60 kW _{th}
30/49 kW _{el}	54/90 kW _{th}

Often the use of an EnerKon condensation heat exchanger will increase the thermal efficiency of our Energator® CHPUs.

Applications:

- Retirement homes
- Medical centres
- Single-family houses as from 250 m²
- Single-family houses with swimming pool
- Fitness centres
- Garden nurseries
- Restaurants
- Community centres
- Trades
- Hotels
- Nurseries
- Hospitals
- Agriculture
- Apartment blocks
- New residential areas with district heating systems
- Swimming pools
- Zoos
- Administration buildings
- Residential homes