

# **GEN TEC**

**GENTEC  
COGENERATION**

We place the highest importance on innovations and continuous improvements of our products and services. In the development and manufacturing of cogeneration units, we place emphasis on the flexibility and functionality of the structural design. Take a look on what is the added value of our solutions, by which we differ from the others.

**COMPACT DIMENSIONS**  
allow installing units in areas which do not offer much space.

**„ECO“**  
At the present time ecological solutions are required - our "eco" models show very low emissions and they can be installed, for example, in historical urban centres.

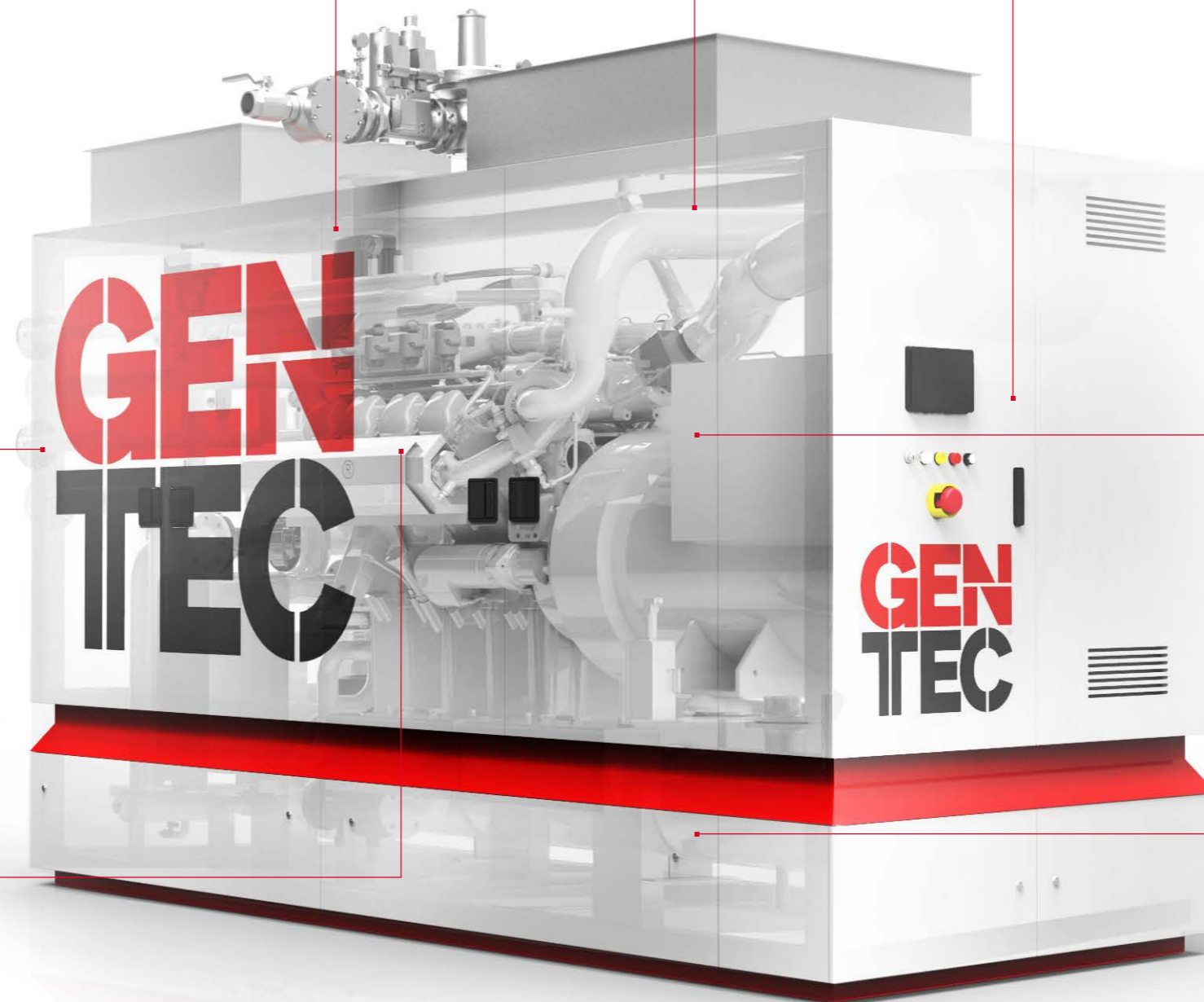
**SWITCHBOARD**  
Supplied also outside the cogeneration unit. It can then be located on the wall or anywhere in the boiler room. This helps particularly when there is a lack of space in heating room for installation or moving the unit in.

**CANOPY / CONTAINER**  
They are available also in the "silence" version, which allows meeting stringent requirements for noise parameters.

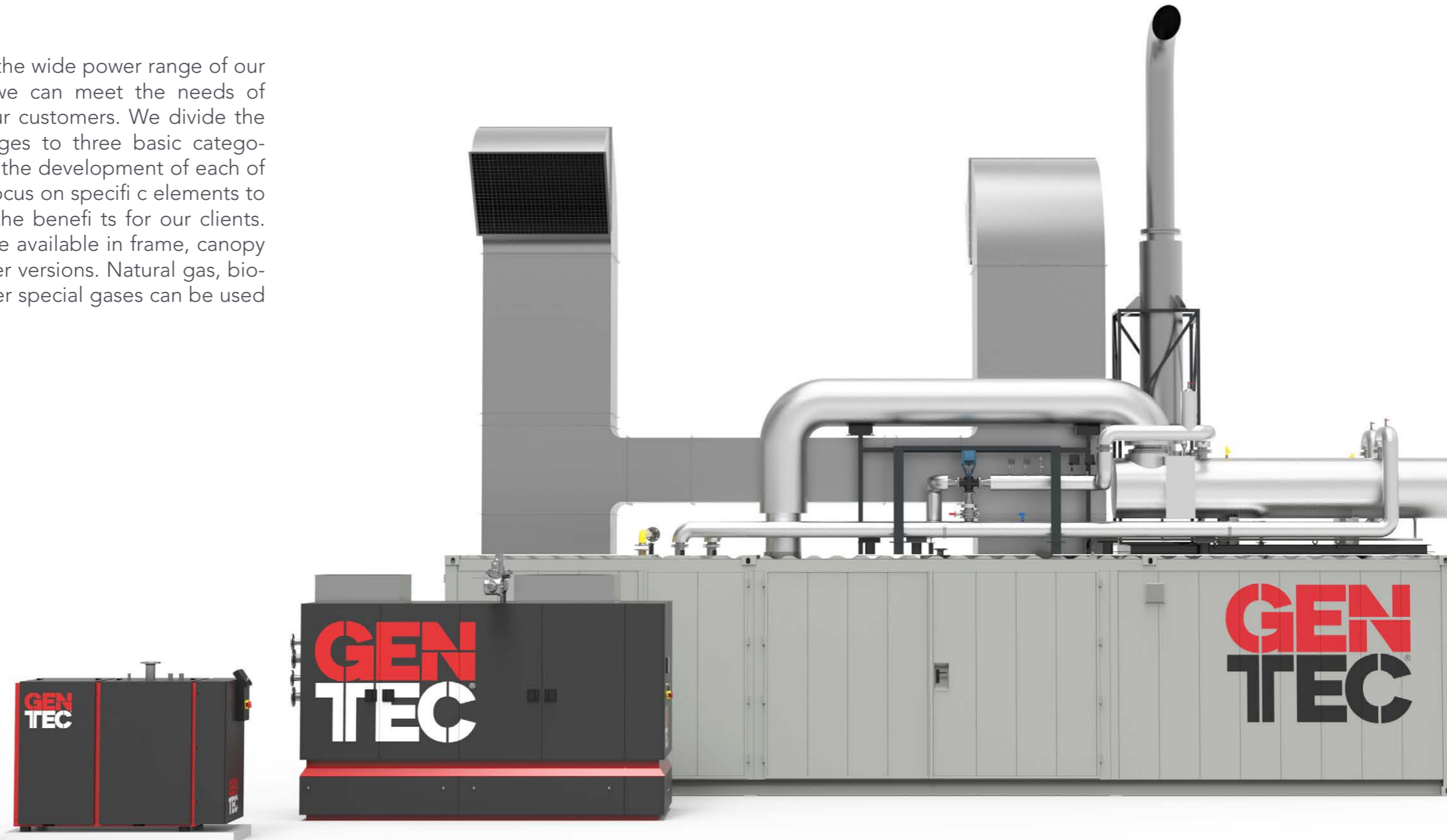
**ENGINES**  
We use MAN, MTU and MWM engines which rank, with their efficiency and reliability, among the best technologies available on the market.

**GENERATORS**  
Leroy-Somer generators are excellent with their quality and reliability. They are considered top-class products in the field of cogeneration units.

**EXHAUST EXCHANGER**  
is developed for us and supplied by the renowned German company Aproxis.



Thanks to the wide power range of our products we can meet the needs of most of our customers. We divide the power ranges to three basic categories and in the development of each of them we focus on specific elements to maximize the benefits for our clients. All units are available in frame, canopy or container versions. Natural gas, bio-gas or other special gases can be used as the fuel.



## MICRO-COGENERATION UNITS

Our micro-cogeneration units with the power output of 30 kWe have a unique construction of two separated inside chambers increasing the total efficiency of the unit. For these units, German engines D.G.E. are used.

## COGENERATION UNITS – POWER OUTPUT 50–520 kWe

It is the power range designed for the widest group of customers. The reliable technology is based on MAN engines and LSA generators. High efficiency, compact dimensions and solution flexibility – all of this is the advantage of our cogeneration units in this power range.

## COGENERATION UNITS POWER OUTPUT OVER 520 kWe

We use the highest quality technologies also for building of these power outputs. Customers can choose between gensets of two manufacturers - MTU and MWM. The electrical efficiency of these units is at the level of up to 43%.

# REFERENCES



CHP type: **KE - MTUNG 1000**

Area of application: Central heat supply

Fuel: natural gas

Version: canopy

Grid connection: yes, parallel mode

Electrical output: 999 kWe

Thermal output: 1 188 kWt



CHP type: **KE - MTUNG 850**

Area of application: Central heat supply

Fuel: natural gas

Version: canopy

Grid connection: yes, parallel mode

Electrical output: 834 kWe

Thermal output: 1 076 kWt

# REFERENCES



CHP type: **KE - MTUNG 1000**

Area of application: Food-processing industry

Fuel: natural gas

Version: container

Grid connection: yes, parallel mode

Electrical output: 999 kWe (reduced)

Thermal output: 1044 kWt



CHP type: **KE - MNG 240 ECO**

Area of application: Central heat supply

Fuel: natural gas

Version: canopy

Grid connection: yes, parallel mode

Electrical output: 200 kWe (reduced)

Thermal output: 321 kWt

## TURNKEY PROJECTS

We consult our customers regarding their needs and we carefully prepare the optimum proposal and the technical solution for installing cogeneration units. Also, we continuously develop our after-sale customer service such as the quality of all the services provided, including dispatching system. We believe that only in this way is it possible to achieve satisfaction of our customers and partners. We will be pleased to work together with you on your projects and to convince you on the quality of our products and services.

### 1 CONSULTATION SERVICE



At our first meeting we will get familiar with the customer's requirements and the project specifics, we will explain important information on cogeneration and its use, and will let the customer fill in a questionnaire about their energy system. In a few days, we will provide the customer with a preliminary opinion on whether installing a cogeneration unit would be suitable in their case and what savings it would bring.

### 2 PROJECTION



On the basis of an energy audit, we will give the customer a project design and its price and business conditions. If necessary, we can arrange creating a design documentation and complete project engineering up to the building permit phase, if it is required.

### 3 PRODUCTION & DELIVERY



We aim to fulfil a customer order in the earliest possible time. We have the best conditions in our manufacturing area and our emphasis on quality and functionality is reflected in production process of each unit.

### 4 INSTALLATION & COMMISSIONING



We provide turnkey deliveries. At the customer's request, we perform the complete installation of a cogeneration unit and connected equipment to hand over a functional unit to the customer.

### 5 SERVICE & OPERATION



The services we offer include the operation of the cogeneration unit and the entire energy system of the customer. We consider the assurance of reliable service the standard and in this aspect, we offer the customer quality service and supervision as part of our 24/7 dispatching centre.



**WE  
CHANGE  
POWER TO  
ENERGY**