Join us in making the world a better place. Today.

HEAT TO PROFIT
Higher Efficiency – More Power

efficiency PACK
eP P 050.100

Plug & Play
waste heat recovery system
for engines from 1 – 20 MW

Up to 7% efficiency boost
leads to increased electricity
production or fuel savings

All in one
20’ container
PLUG & PLAY EFFICIENCY UPGRADE

SAVE COSTS
Our systems efficiently turn engine exhaust gases and/or cooling water into clean electricity. Providers and operators of engine power plants and mobile electrical supply systems benefit from an increase in efficiency and additional cooling savings. The results are significant savings in cost and emissions.

PROVEN RELIABILITY
Orcan Energy’s systems have been sold to customers worldwide with a proven reliability in almost 1 Mio. hours of operation. Standardized and industrial components ensure a robust and reliable operation under all conditions.

EASY HANDLING
The efficiency PACKs operate entirely independently and automatically with little maintenance required. Integrated in containers they are easy to transport and quickly to install. Thanks to its excellent part load capacity and modular design, it adapts quickly to the heat source to maximize power output.

HOW IT WORKS

FACTS & FIGURES

- Input power: 560–1,100 kW thermal
- Electrical output gross/net: Up to 129 kW electrical / Up to 100 kW electrical
- Working fluid: Standard refrigerant (non-inflammable, non-toxic, non-ozone-depleting)
- Interfaces:
  - Option A: Exhaust gas (inlet max. 550 °C)
  - Option B: Hot water (150 °C)
  - Additional: Warm water (80–109 °C, e.g. jacket cooling)
- Electrical feed-in: 400 V 3ph 50/60 Hz
- Ambient conditions: IEC 60721-3-4 with IE41 (-33 to +40 °C)
- Dimensions: ISO 668 20’ HC container (6.1 m x 2.5 m x 2.9 m)

CASE STUDY

- 1.5 MW engine • efficiency PACK eP 050.100
- 8,000 hrs of operation per year
- efficiency PACK power: 100 kW

Annual savings
- 96,000 € per year at 12 €ct/kWh
- 160,000 € per year at 20 €ct/kWh

INVESTMENT

PROFIT

- 3 YEARS
- 15

ORCAN ENERGY – AT A GLANCE
Orcan Energy AG is a leading European CleanTech company offering efficient energy solutions based on Organic Rankine Cycle (ORC) technology for the conversion of waste heat into electricity. Orcan Energy AG was founded in 2008, employs 60 people and is headquartered in Munich, Germany.

Your expert team for inquiries  Orcan Energy AG, Rupert-Mayer-Str. 44, 81379 Munich
power@orcan-energy.com, Tel.: +49 (0)89 72 44 997-0, www.orcan-energy.com