



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

**Powering net zero.
Clean Electricity from Waste Heat.
Act Now and Remain Flexible for the Future**

**3.100 TWh,
750 Million tons of CO₂**

With waste heat recovery, we could avoid 750 million tons of CO₂ per year – an amount of CO₂ that would require four times forest the size of Germany to absorb.

67+ TWh of carbon-neutral electricity

Waste heat from all cement plants worldwide alone, with a volume of around 67 TWh, equals the electricity requirements of all the private households of around 40 million European citizens.

We Make Sustainability Profitable



Save costs



Lower CO₂
emissions



Increase
efficiency



Save water

Orcan Energy turns waste heat into clean electricity, enabling a sustainable and profitable energy supply.

2008

Founded

170+

International patents

7+ million

Operation hours

100

Employees

600+

Modules marketed

> 2 mio t

CO₂ savings contracted



Our customers profit from ...

- Clean electricity at **globally competitive** energy prices
- For **own consumption** or **grid feed-in**.



The modular energy solutions are ...

- **Compact, easy to install**
- **Flexible** in terms of energy source and volume.



Use of standard components ensures ...

- **Low costs**
- **Minimal maintenance**
- **High reliability.**



Waste Heat: The World's Largest Unused Energy



INDUSTRY

**In industrial processes
from O&G to cement**

Our products improve energy efficiency and reduce primary energy consumption, electricity costs and CO₂ emissions.



MARINE

**On ships
from the inland vessel to the tanker**

Our energy modules use engine exhaust gases and cooling water to generate electricity. This allows us to reduce fuel consumption on all types of ships.



POWER

**In electricity production
from gas to geothermal energy**

We convert the waste heat from engines and turbines as well as geothermal energy to generate CO₂-neutral electricity.

Waste Heat Power Generation - Worldwide



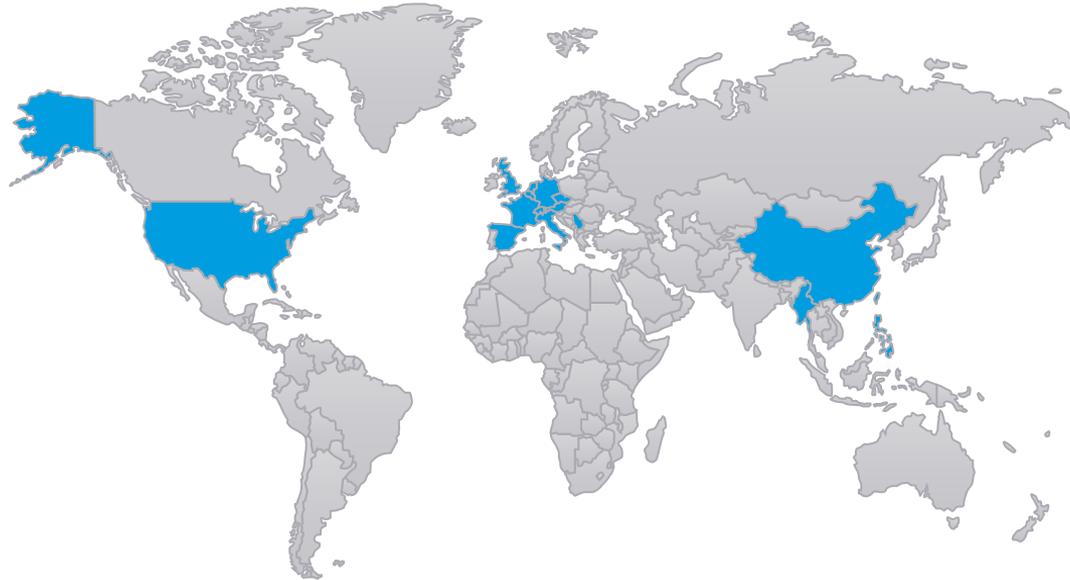
Oil & Gas



Marine



Cement



7+ million
Operation hours

600+
Modules marketed



Steel & NF Metals



Engine Power Plants



Geothermal

Waste Heat Recovery Solutions



Glass & Ceramics



Steel & NF Metals



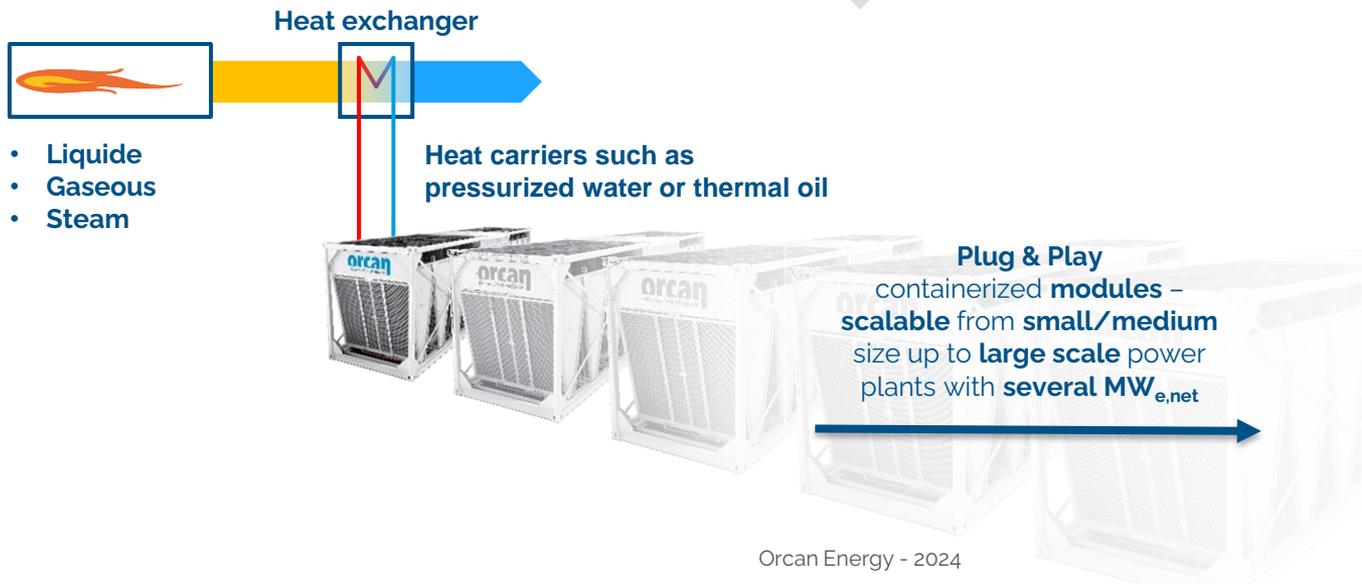
Cement



Oil & Gas



Manufacturing



Different heat sources

+ Adapted heat extraction

+ Fully standardized secondary loop

+ Fully standardized efficiency PACKS

= one solution

Waste Heat Recovery Solutions



Gas & Diesel



Gas Turbines



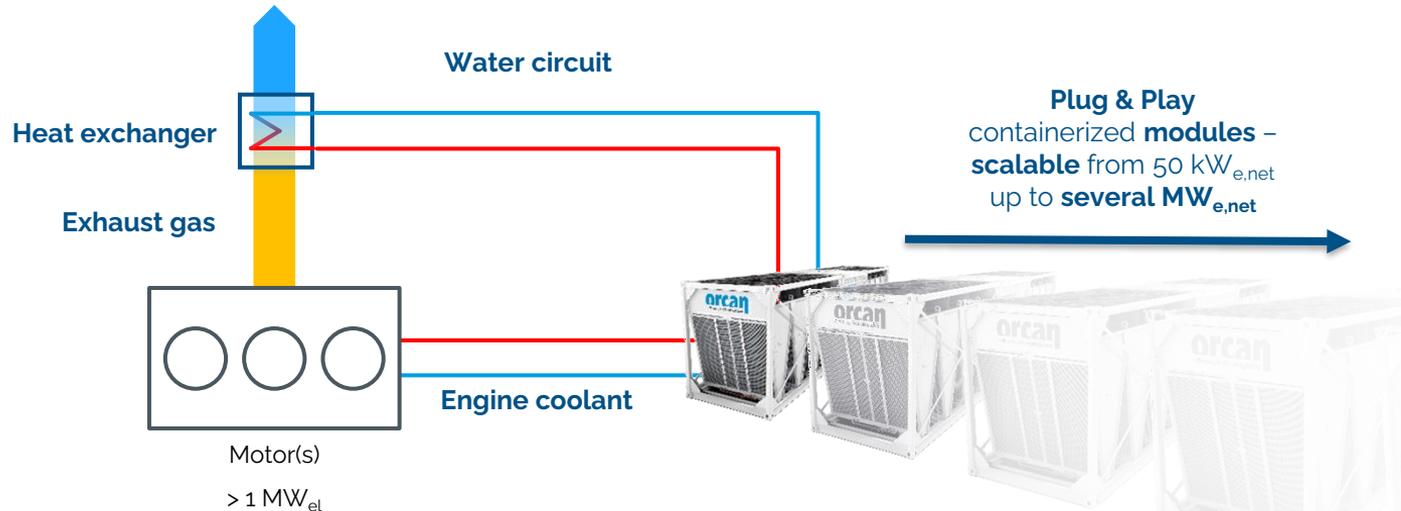
Power Plants



Landfill & Biogas



Geothermal

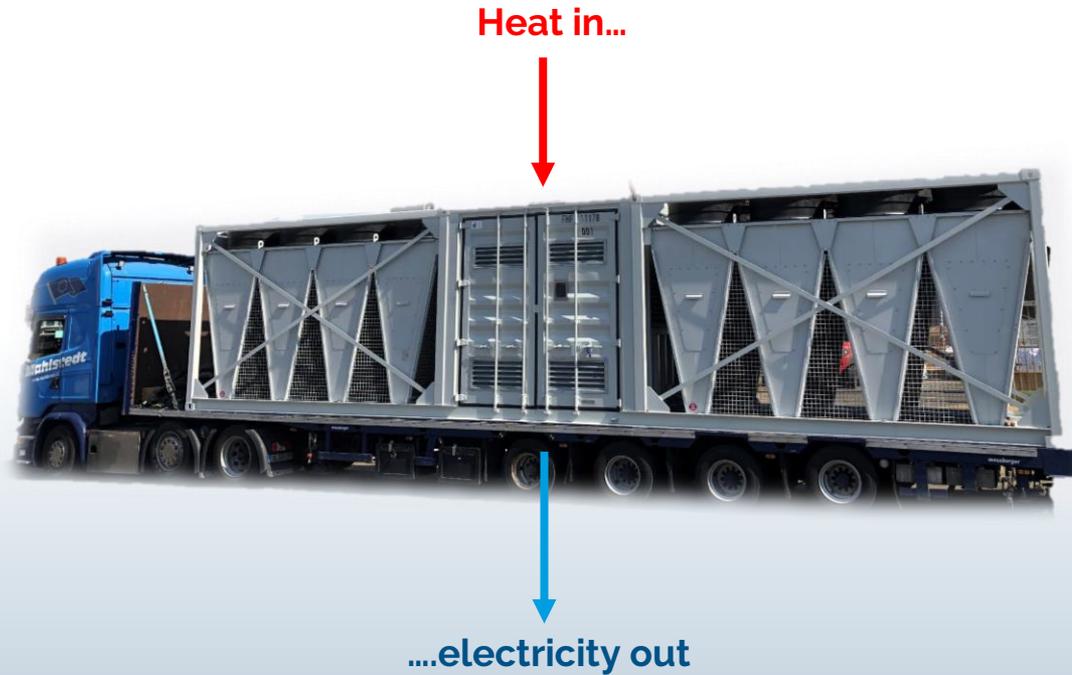


CO₂ - free electricity
from efficiency PACKs

- + Base load electricity
- + Autonomous operation
- + Quick installation

= Improve energy
efficiency

Simple Integration: Plug and Play



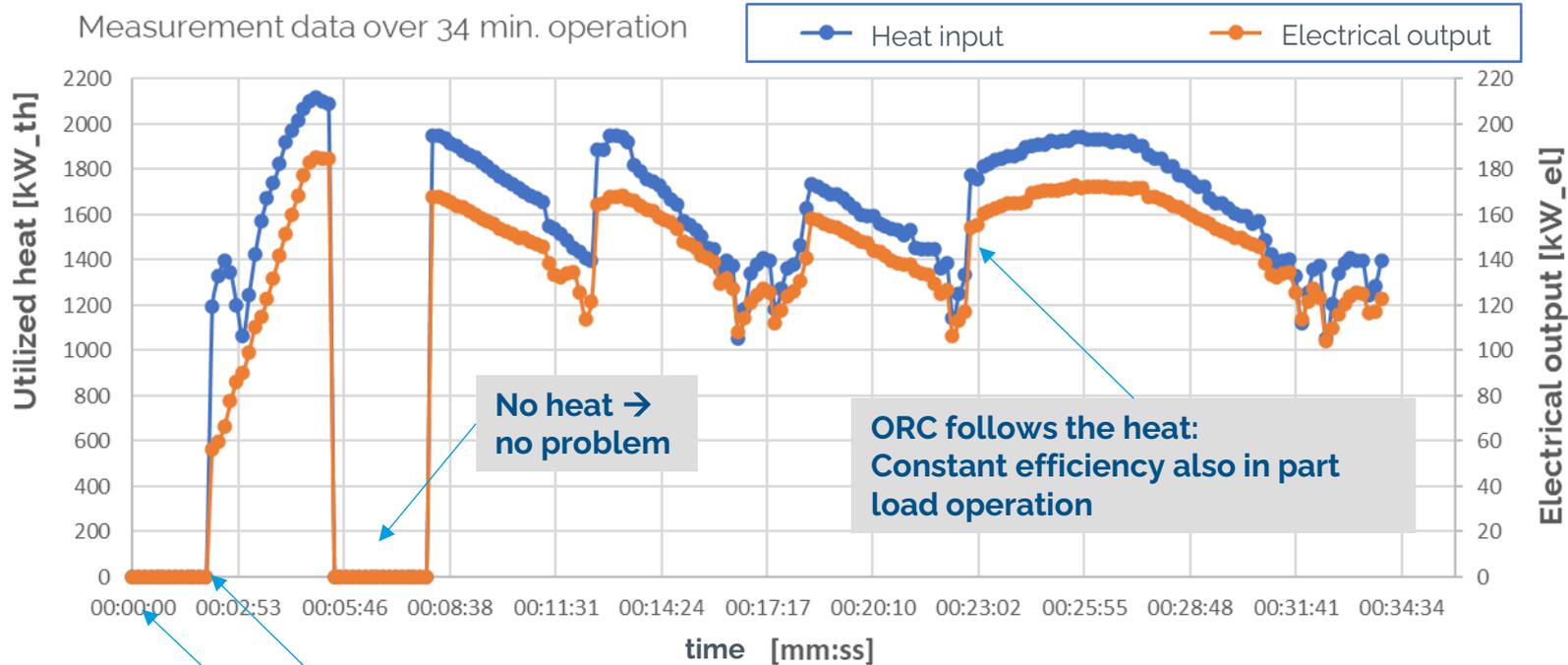
Plug ...

- + Connection within 1 day
- + Light: 14 t
- + Integrated cooler
- + Compact 40' container

... and Play

- + 1 day O&M per year
- + Autonomous operation
- + No consumables
- + Non-flammable medium
- + Factory tested

Optimal Heat Utilization Through Flexibility



Temperature water loop: 110 °C
Startup phase ORC incl. grid synchronization: 2 min.

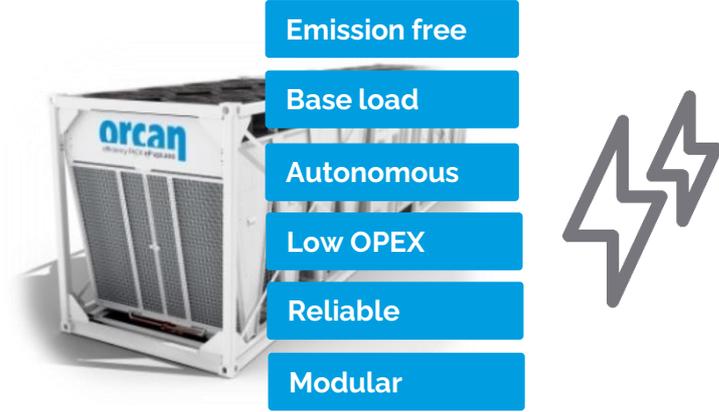
Temperature water loop: 94 °C



Industrial facilities
such as small/medium
size companies up to
large-scale plants



WASTE HEAT
heat carriers
such as pressurized water,
thermal oil
or saturated steam

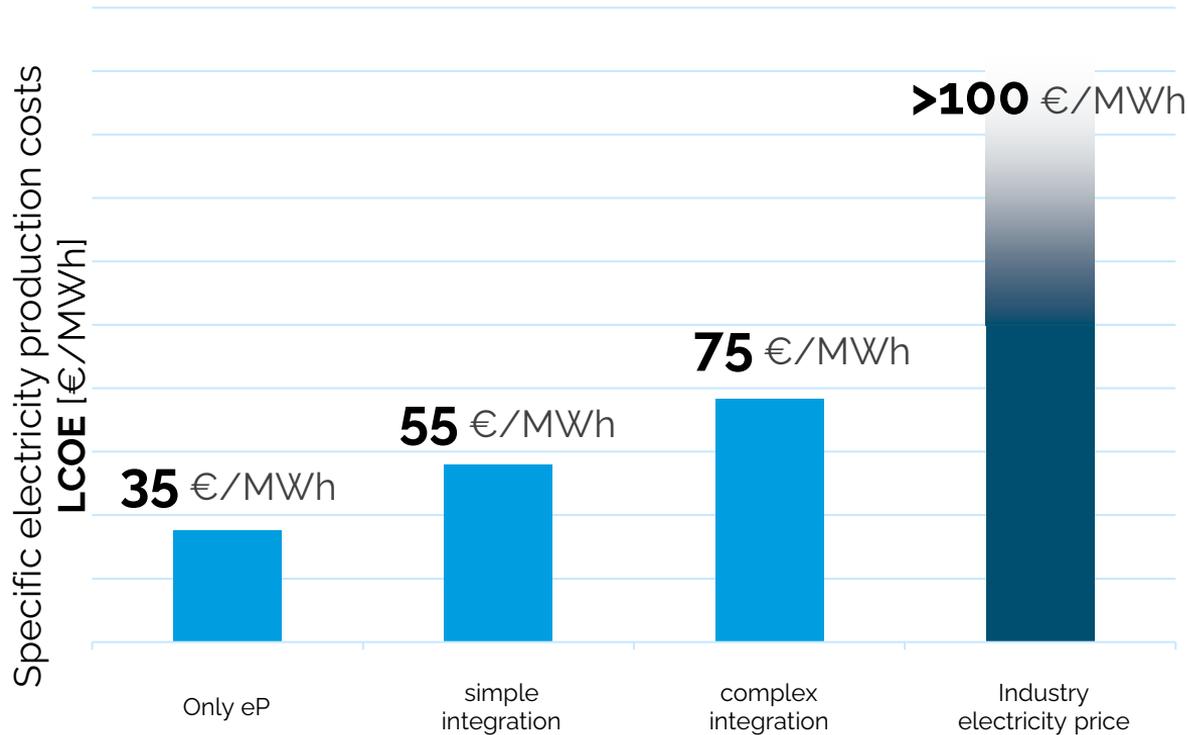


- Emission free
- Base load
- Autonomous
- Low OPEX
- Reliable
- Modular

CO₂-free electricity
high-flexible modular solutions
like eP150.200 to high-efficiency
large-scale solutions
powered by our eP1000

+ Reduce Scope 2 emissions + Save energy costs + Reduce water usage + Improve energy efficiency

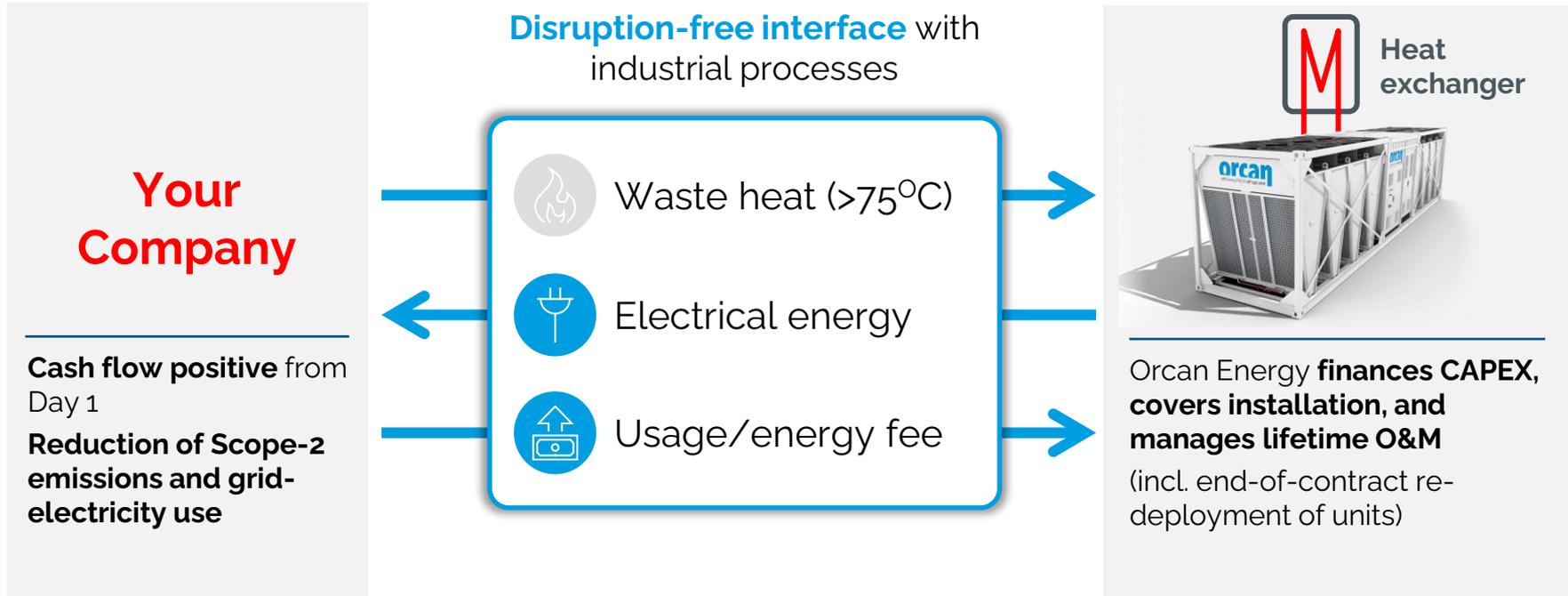
Secure low-cost baseload electricity from your waste heat



... Orcan's efficiency PACKs produce electricity already **from 35 €/MWh**

... for at least **15 years**

... which is significantly below **the current and expected** electricity market price in **all integration scenarios**



Orcan Energy finances and manages the on-site assets cash flow positive partnership from Day 1

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