



BIOGAS



BIOMASS



GEOHERMAL



INDUSTRY



ENGINE

TURN YOUR HEAT



INTO PROFIT



Micro-turbomachinery for a more sustainable world

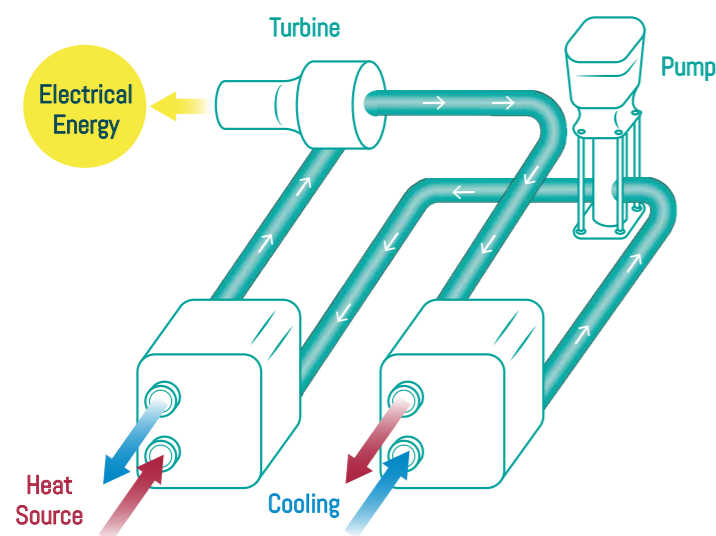
Harnessing INNOVATION, Delivering POWER

COMPETITIVE ENERGY

Plug and play solution

Our turnkey system, based on the Organic Rankine Cycle, seamlessly adapts to your unique needs and site conditions.

Integrating our compact unit requires only two piping connections and one power cable, ensuring easy commissioning.



BUILT TO LAST

Lasting commitment to performance

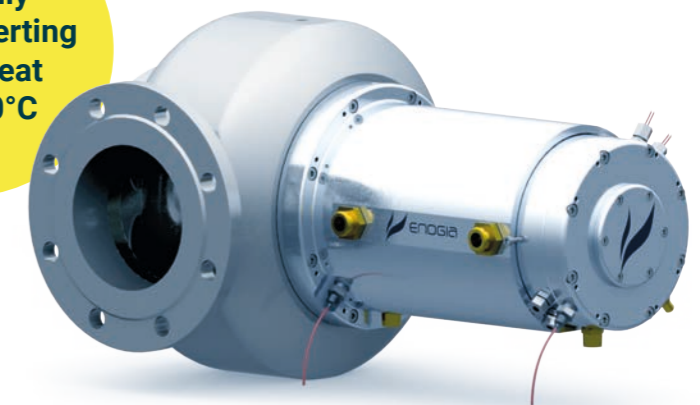
100% of our ORCs undergo Factory Acceptance Testing, simulating on-site conditions to guarantee top-notch quality, robustness, and performance for our clients.

Unlike volumetric expanders, our technology maintains consistent efficiency throughout its entire 20-year lifespan, enhancing the benefits for our clients.

Endurance

Designed for continuous 24/7 operation with minimal maintenance needs, our ORCs have been industrialized since 2009, benefiting from extensive experience in selecting high-end and durable components.

The only ORC converting waste heat from 70°C



CUTTING-EDGE TURBINE

Flexible Power

Relying on a modular blading architecture, our ORC is the only technology on the market able to convert 70 °C+ waste heat into power across a wide range of applications.

Based on our patented regulation law, our variable speed control system ensures a reliable and steady power output through heat fluctuations and changing conditions.

Leak-proof

Our hermetic single-shaft turbogenerator is free from any mechanical seals, eliminating the risk of fluid losses and maximizing your operation time.

In-house precision

Our turbine is meticulously designed and entirely manufactured in-house. This end-to-end control over the production process allows us to maintain the highest standards of quality.

SAFE & CLEAN

The cleanest power generation

With a Global Warming Potential (GWP) of 1 and an atmospheric lifetime of less than 26 days, our working fluid is 800 times more environmentally friendly than conventional solutions.

An oil-free technology

Our patented oil-free lubrication system is the result of years of R&D. It eliminates any risk of contamination in our ORCs, reducing operating costs while contributing to a greener and more sustainable future.

We convert your heat from 70 °C with power plants up to 3 MWe



200 plants in more than 30 countries



Heat recovery on the largest Biogas Plant in Europe

Implementation of 40x20kW ORC to boost the power output of 500kW engines by converting the heat of the jacket water into electricity.

Location: **Germany**

Heat temperature: **85 °C**

Energy generated:
5 440 MWh/year

Payback: **below 2 years**



Improvement of the energy efficiency of a sewage water plant

Heat to power conversion of the exhaust gas generated by a sewage plant incinerator.

Location: **France**

Heat temperature: **170 °C**

Energy generated:
1 344 MWh/year

Payback: **1,5 years**



1 MW power plant on hot spring resort

Construction of a modular geothermal plant to help the site owner to face the challenge of energy efficiency and clean power generation.

Location: **Taiwan**

Heat temperature: **120 °C**

Energy generated:
7 050 MWh/year

Payback: **2 years**

OUR MISSION

With its unique and patented micro-turbomachinery technology, ENOGIA addresses the major challenges of the ecological and energy transition. As a global leader in small and medium-scale heat-to-electricity conversion, ENOGIA offers a wide range of ORC modules, enabling its customers to produce decarbonized electricity from waste or renewable heat. ENOGIA stands out both as a manufacturer of ORC modules and as a clean power provider with its Green Shield Power Solution PPA offering.

With a dedicated research and development team, ENOGIA is at the forefront of numerous ecological

transition technologies, such as Carbon Capture and Storage (CCS), supercritical CO₂, Ocean Thermal Energy Conversion (OTEC), and hydrogen fuel cell efficiency enhancement.

Founded in 2009 and based in Marseille, ENOGIA has nearly 50 employees involved in the design, production, and marketing of environmentally friendly technological solutions. ENOGIA's CSR commitment is recognized at an «Advanced» level by EthFinance. ENOGIA is listed on Euronext Growth Paris.