The Small Turbine ORC Company
Enogia designs and produces Organic Rankine Cycle micro-powerplants that convert waste heat into electrical power.

→ an innovative company since 2009
→ head office and facilities in Marseilles, France
→ 25 employees including 18 highly skilled engineers
→ 40 References in 13 countries
→ Strategic partnership with the famous research group
ENOGIA’s turboexpander technology

Proprietary hermetic high speed turboexpander technology

Why the kinetic turbogenerator?

→ Proven concept on larger ORC units
→ No friction, no wear

Hermetic turbogenerator with PMG generator inside

→ No fluid leaking
→ Reduced maintenance

Extremely Compact units

Made in France with EU only components, in house assembly
New faces!

**Ing. Nicolas Goubet**  
Co-founder & Expert  
Ex. CNC machine designer at Forest Liné

**Ing. Antonin Pauchet**  
Co-founder & CFO  
Ex. senior auditor at PriceWaterhouseCoopers

**Ing. Arthur Leroux**  
Co-founder & CEO  
Ex. R&D project manager at Bertin Technologies

**Dr. Bruno Malnar**  
Business Manager  
Ex. DG DECIDAEx  
Ex. Responsible Simulation Numérique at Bertin Technologies

**Ing. A.C. Mintsa**  
Quality Manager  
Ex. CNRS research fellow

**Ing. Benoit Paillette**  
Sales Manager  
Engineering & Business Master’s degree, sales engineer at ENOGIA
## Product range

<table>
<thead>
<tr>
<th>Product range</th>
<th>« LT » (Low Temperature)</th>
<th>« LT/DC » (Low Temperature / Direct Condensation)</th>
<th>« MT » (Medium Temperature)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hot side conditions</strong></td>
<td>80-120°C hot water inlet</td>
<td>80-120°C hot water inlet</td>
<td>150-200°C hot water or oil inlet</td>
</tr>
<tr>
<td><strong>Working fluid</strong></td>
<td>R-245fa</td>
<td>R-245fa</td>
<td>New Generation Refrigerant (GWP=1)</td>
</tr>
<tr>
<td><strong>10kW (gross electric power)</strong></td>
<td>ENO-10LT</td>
<td>ENO-10LT/DC</td>
<td>ENO-10MT</td>
</tr>
<tr>
<td><strong>20kW (gross electric power)</strong></td>
<td>ENO-20LT</td>
<td>ENO-20LT/DC</td>
<td>ENO-20MT</td>
</tr>
<tr>
<td><strong>40kW (gross electric power)</strong></td>
<td>ENO-40LT</td>
<td></td>
<td>ENO-40MT</td>
</tr>
<tr>
<td><strong>100kW (gross electric power)</strong></td>
<td>ENO-100LT</td>
<td></td>
<td><strong>ENO-100MT (Under development)</strong></td>
</tr>
</tbody>
</table>

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Recent achievements

- Company moved to new factory, but still in Marseilles, France!
Recent achievements

• Solar applications
Recent achievements

- Biomass applications
Recent achievements

• Biogas turbines and gensets
Recent achievements

• OTEC demonstrator
What is next?

• ENOGIA targets transportation with our trusted partner IFP Energies Nouvelles
• Boats and Trucks
Contact information

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