idénergie
The power of the river within your reach
Idénergie's river turbine
The river turbine generates electricity simply using the river's current. At maximum power, it can produce more than 500 W continuously, which represents 12 kWh a day.

A continuous source of energy
Power your lighting and basic home electrical appliances from the most reliable and predictable source of energy. The river flows continuously, 24 hours a day and is less subject to weather variations.

Easy to install
A transportation device and ready to connect cables make the river turbine easy to install. Only three people and a few hours are required for a complete installation. No need for heavy equipment.

Low-maintenance
Install it and forget it! Equipped with an unique 100% waterproof generator and turbines developed to avoid the accumulation of debris, Idénergie's river turbine is built to limit maintenance to a minimum.

Equipped with a riverlutionary converter
Enjoy the many benefits offered by the built-in smart energy converter: self-starting mode, continuous power optimization, remote monitoring capabilities, an emergency brake and many more.

Delivered disassembled, the river turbine can be easily shipped to the most remote locations, assembled on site and installed in any river with appropriate depth and speed.

Less subject to intermittent wind and sunshine than other renewable sources of energy, the river turbine generates continuous power.

Several river turbines can be installed together as a network to generate more energy. It is possible to combine them with solar panels to create a hybrid renewable energy system.

Get yourself one of the most ecofriendly renewable energy products on the market. The river turbine interacts minimally with the environment and is 99% recyclable.

Save up to 50% on your annual expenses by replacing your gas-powered generator. At high velocity, the river turbine can produce the power equivalent of up to 12 solar panels.

Scientific studies have demonstrated that the river turbine is harmless to fish. By contributing to the reduction of greenhouse gas emissions, its overall environmental impact is more than positive.
River Turbine Specifications

Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbine</td>
<td>Darrieus double</td>
</tr>
<tr>
<td>Axis</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Height</td>
<td>66 cm - 26 in</td>
</tr>
<tr>
<td>Width</td>
<td>132 cm - 52 in</td>
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<tr>
<td>Weight</td>
<td>131 kg - 291 lbs</td>
</tr>
<tr>
<td>Total Surface Area</td>
<td>0.40 m² - 4.3 sq ft*</td>
</tr>
<tr>
<td>Materials</td>
<td>Aluminum, Stainless steel</td>
</tr>
</tbody>
</table>

*Varies according to blade length

Performance Ratings

- Rated Power Output: 100 - 500 W
- Minimum velocity: 1.0 m/s - 2 knots
- Maximum velocity: 3.5 m/s - 7 knots
- Rated RPM: 100 to 250 RPM

Annual energy production:
- 1.0 m/s - 2 knots: 900 kWh
- 2.0 m/s - 4 knots: 2000 kWh
- 3.0 m/s - 6 knots: 4000 kWh
- 3.5 m/s - 7 knots: 5100 kWh

Electrical Configuration

Generator: Three-phase permanent magnet, Shaftless drive 100% waterproof, Integrated AC-DC converter, Embedded variable speed drive, Rated output = 125 V DC

DC-DC Converter: Included with Turbine, Bluetooth and remote monitoring, Rated output = 24 V or 48 V DC

Software updates: Periodically available

Certifications: CSA/UL/CE 2016-2017

Installation Examples

- Residential installation: 1 km - 0.6 miles maximum
- Network installation: 1 km - 0.6 miles maximum

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