



 **idénergie**

The power of the river within your reach





# Riverlution Turbine

## 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.

## Designed for your river

Designed to perform even in shallow depths and low velocity flows, the river turbine is durable and will adapt to the specific conditions of your site.

## 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.



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 an excellent renewable energy hybrid system.



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



Get yourself one of the most ecofriendly renewable energy products on the market. The river turbine interacts minimally with the environment and is 90% recyclable.

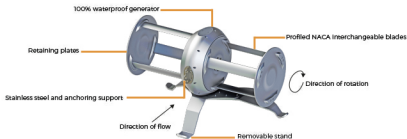


Save up to 50% on your annual expenses by replacing your gas-powered generator. At high velocity, the river turbine can produce the power equivalent of up to 12 solar panels.



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

Turbine	Darrieus double Zero debris concept™
Axis	Horizontal
Height	66 cm - 26 in
Width	132 cm - 52 in
Weight	131 kg - 291 lbs
Total Surface Area	0.40 m <sup>2</sup> - 4.3 sq ft*
Materials	Aluminum Stainless steel

\*Varies according to blade length

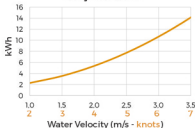
## Performance Ratings

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

Daily Production



## 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

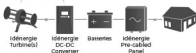
Software updates Periodically available

Certifications CSA/UL/CE 2016-2017

## Installation Examples

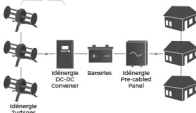
### Residential installation

1 km - 0.6 miles maximum



### Network installation

1 km - 0.6 miles maximum



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