

SOLUTION

EEL Energy



Generating electricity using a biomimicry hydrokinetic device based on an undulating membrane

EEL Energy develops an innovative hydroelectric undulating membrane. As opposed to classical helical systems, this hydroelectric system uses interaction between a flexible structure and a fluid movement to capture energy stocked in marine currents. This water flux forces the undulations of the membrane and a converting system allows for a powerful electrical generation. This technology is applicable worldwide and could be directly connected to a power grid (large power customers such as EDF, ESKOM...) or off-grid (in remote areas such as islands where local operators have to recourse to pollutant generating units).

SOLARIMPULSE
WORLD ALLIANCE FOR EFFICIENT SOLUTIONS

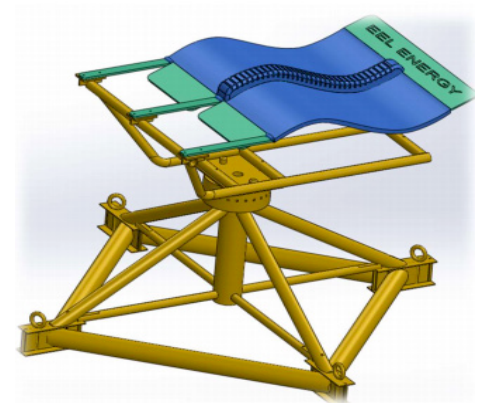


HEADQUARTER
France

ACTIVITY REGIONS
Western Europe

7 AFFORDABLE AND CLEAN ENERGY

- HARDWARE**
- SOFTWARE**
- SERVICE**



KEY FEATURES FOR A POSITIVE IMPACT ON QUALITY OF LIFE



- This technology uses MarineTidal currents as a resource which means it is:
- Renewable
 - CO2 and waste free
 - Predictable
 - No visual, nor noise pollution
- What differentiates it from other hydroelectric systems is its:
- Accessibility: Thanks to its large harvesting surface, EEL machine is starting at low-speed current (about 1m/s) (construction is therefore easier)
 - A simple & robust concept: Natural pivotal and low weight for the machine, making logistics & maintenance easier.

PROFITABILITY



- High density of units per area in harvest farm.
- Reduced dimension compared to captured power
- Installation near coasts possible, reducing transmission costs
- Low start up velocity (0.4 m/s) which means incredibly more application locations compared to classical hydroelectric systems that require fast marine currents
- A unique technology protected with 5 patents

MATURITY STAGE

EEL Energy has 3 prototypes, and raised 3.7M Euro of equity funding in 2016

