



A profitable technology for renewable power generation
at large scale by using ocean currents

BME



A different approach to generate energy

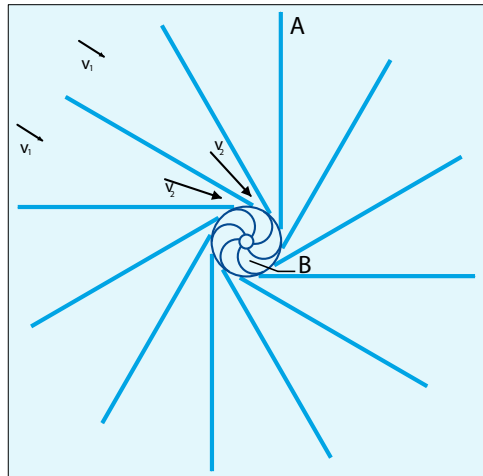
<http://bluemotionenergy.com/en/>

For centuries the Dutch have been plagued by flooding, throughout history the Dutch have been in a constant battle against the sea. In the 9th century the history of Dutch water management started. Throughout all these centuries the Dutch have gained a reputation as a country that won the war against water, rescuing large parts of land from the grasp of the sea.

The current Dutch thought however is to convert their battle against the sea into working and living together with the sea. This changed vision demands for the further development of a different kind of knowledge.

Blue Motion Energy

Blue Motion Energy is a new Dutch based company that has taken on the challenge to come up with an innovative system to generate energy from currents that are under the influence of ebb and flood.



During the day the current turns around two times 360 degrees. In some area's the average flow velocity is too low to gain energy with a rotor on a profitable way.

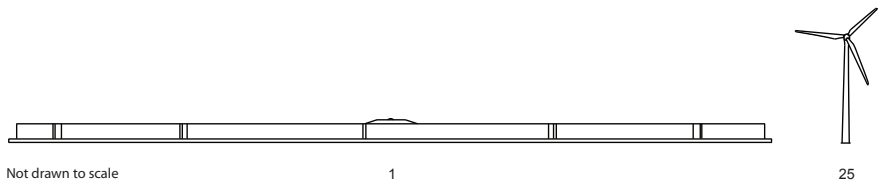
The Blue Motion Energy marine turbine however uses a patented system of seawalls (A) placed radial around the vertically mounted rotor (B), this way it is possible to funnel the current and significantly increase the flow velocity independent of the direction of the current.

This way the Blue Motion technology can increase the efficiency of the marine turbine system to 70 percent and generate 20 MW average and 60 MW maximum.

The marine turbines will be placed at approximately a distance of 20 km from the coast.

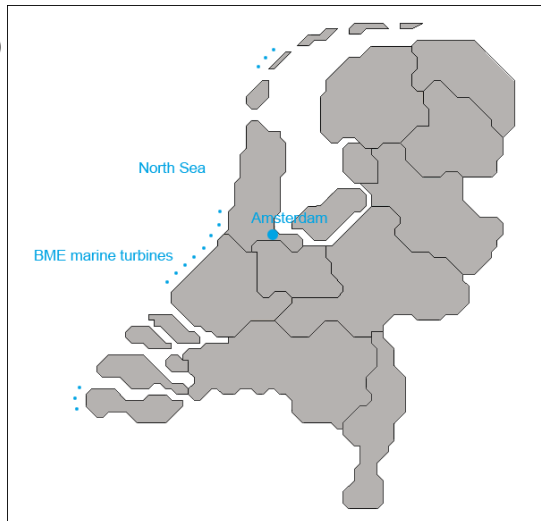
If the plants will be built further from the coast it is possible to built much larger power plants. At larger sea depth much larger rotors can be applied. This ability can rise up to 1000 MW.

The BME marine turbines provide a capacity equal to 25 large windmills. The investment in a marine turbine is significantly lower than the investment for 25 windmills. A single marine turbine also takes up less space than 25 windmills and will not polute the horizon.



Marine turbine dimensions are:
(depending of the flow velocity)
Main platform: 250m x 250m
Seawalls: 100m x 1,5m
Rotor: \varnothing 30m

More plants forming a string along the coastline provide a continuous flow of energy. Naturally the string follows the direction of the current.



The world is increasingly looking to the ocean as a power source and with this innovative system we come closer to realizing this opportunity.

Would you like to become our partner?

For more information feel free to contact one of our representatives:

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