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Dexa wave energy - providing a solution for cheap, reliable green electricity from ocean waves



Dexa Wave Energy aims to use an innovative, relatively simple and flexible technology, based on hinged pontoon design, to demonstrate wave energy as a cost-effective, competitive and alternative source of electrical power. The expected outcome of the project will be to bring this technology close to market, resulting in secure supply of a clean energy source, with low CO₂ emissions, and generating electricity at a competitive price in stronger wave climates.

It's a simple construction and consists of two rigid pontoons, hinged together in the center, which allows one pontoon to pivot in relation to the other. In between is placed a power takeoff system, based on hydraulic, a power transmission technology, based on standard components. The unique technical advantages to the DEXA converter are numerous.

Technical Specifications

Independent of tidal.

- Insensitive to floating debris in the ocean.
- Insensitive to marine growth.
- Excellent survival in severe storms.
- Very high corrosion resistance.
- Very low maintenance requirements.
- Long Service Life.
- Simple Installation.
- The power station can easily be moved to alternate positions.
- No hazardous areas or materials.
- No negative environment footprint.
- Low price.
- Good Stable electricity quality.
- Power on Demand technology.

Owing to the simple mechanical construction of the DEXA converter, as a structure of floating pontoons, the converter can be installed relatively simple, and fast. Only a tug boat, and float with a simple chain crane is required. No divers, ROV's, crane platforms etc. are required.

The DEXA can produce electricity at almost the same price level as Coal, Natural Gas, Onshore Wind turbine etc. This is realized by use of low cost materials with long life expectancy, and low maintenance requirement (mainly concrete).

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