

## Ocean grazer offshore storage

The Ocean Battery is a scalable, modular solution for utility scale energy storage that is produced by renewable sources such as wind turbines and floating solar farms at sea. Ocean Battery is a pumped hydro system in a box that provides eco-friendly utility scale energy storage up to GWh scale. The mechanism is based on hydro dam technology, that has proven itself for over a century as highly reliable and efficient.

To store energy, the system pumps water from the rigid reservoirs into the flexible bladders on the seabed. Now the energy is stored as potential energy in the form of water under high pressure. When there is demand for power, water flows back from the flexible bladders to the low pressure rigid reservoirs. Driving multiple hydro turbines to generate electricity.

Producing renewable energy is crucial for a climate neutral economy. This energy transition requires a significant change in the energy system. More and more solar and wind turbine parks are being realized onshore and offshore to contribute to a sustainable society.

The planned global production of offshore wind, for the year 2050, exceeds 1150 gigawatts. Soon, weather conditions will dictate the timing of renewable energy production, causing large fluctuations.

To grow to a system where renewable energy is the norm, the biggest hurdle must be solved: energy storage. At Ocean Grazer, we tap into this huge potential of renewable energy by introducing the Ocean Battery. We are ready to meet future utility scale energy storage needs.

Ocean Power converts wave energy into electricity, using innovative floater blankets that are adaptable to each incoming wave that maximizes the power output.

Ocean Grazer is a Dutch start-up and a spinoff from the University of Groningen. Since 2014, the Ocean Battery has been in development at the University of Groningen. Over 100 students graduated so far have worked on relevant topics: developing predictive models, building experimental prototypes and more.

Since 2018 Ocean Grazer is turning knowledge and intellectual property into commercial products. The start-up located in Groningen, the Netherlands, is led by Frits Bliet (CEO) and Max Duursma (COO): two professionals with over 20 years of experience in the maritime and energy sector, and Marijn van Rooij (CTO), who has spent 5 years to research regarding the Ocean Battery concept. Currently, Ocean Grazer is focusing on bringing the innovative Ocean Battery to the market

At Ocean Grazer, we are convinced hybrid systems will play a key part in commercial, sustainable and clean energy production. This is why we believe that Ocean Grazer B.V. can create a healthy future, both ecologically and economically, offering many growth opportunities along the way.

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Ocean Grazer B.V. develops hybrid solutions for the offshore renewable energy sector. Our innovations focus on integrating multiple renewable sources together with on-site storage technology. The future is hybrid.

The Ocean Grazer is a conceptual energy collection platform, projected to house several renewable energy generation modules, including wave energy, solar energy and wind energy. The development of the Ocean Grazer platform has been carried out by the University of Groningen in the Netherlands, since 2014, and now by a spin-out company Ocean Grazer BV;

The concept of the platform is currently on its version 3.0; centering on the modular design as opposed to the massiveness of the platform, as in the previous concepts. The majority of the harvested energy for all concepts is to be delivered by a wave energy converter that uses the motion of ocean surface waves to generate electrical energy;

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