

Ocean Grazer solves the world's energy storage problem

Las Vegas, 5 January 2022 – At CES 2022, Ocean Grazer launches their CES Innovation Award winning solution Ocean Battery. With this system the Dutch Water Engineers will fundamentally change the sustainable energy landscape. No one has resolved the global energy storage problem in a scalable, reliable, and affordable the way – up till now! Ocean Grazer offers a brilliant yet simple solution, based on existing technology, enhancing marine life along the way. Introducing: the Dutch engineers who solved one of the biggest hurdles towards a sustainable future.

The Ocean Battery is an energy storage solution for offshore wind farms installed at the seabed at the source of power generation. It provides utilities storage capacity that is infinitely scalable to Giga Watt hours scale. It is efficient, has low maintenance costs and is designed with a sustainable planet in mind and enhances marine life.

High tech without rocket science

The Ocean Battery is the *iPhone van de e-industrie*: it is based on smart integration of proven high-tech solutions. The production of the Ocean Battery does not require any *rocket science* and the production can be scaled up today.

Intermittent power production

The transition towards renewable power generation is huge challenge. Power production soon will be dictated by the weather conditions and no longer will be available on demand. Peaks in renewable power production is resulting already in negative energy prices and potentially even blackouts. To ensure that the lights remain on large scale energy buffering is essential. The fast-growing offshore wind power production results in an exponential demand for large scale energy storage that soon exceeds 200 B\$. Ocean Grazer steps into this opportunity and delivers the solution the utility market is already waiting for a long time.

Great opportunity

The Ocean Battery is a Breakthrough solution based on proprietary Key Enabling Technology to solve the huge challenge of Balancing Supply & Demand for the global e-Power industry. The patented technology transforms this huge challenge into an unrivalled business opportunity. At the same time Ocean Battery resolves a societal challenge to provide access to renewable power generation without destabilizing the power grid and meet our climate goals. The Dutch Water engineers resolved this problem in a brilliant yet simple way with a tremendous amount of creativity, innovation power and Dutch entrepreneurship.

Worthy investments

One of the key success factors is that the Ocean Battery significantly reduces the CapEX of offshore power generation with a ROI of 8 – 10 years resulting in a very attractive NPV of such projects. The major offshore wind developers already have shown interest to partner up with Ocean Grazer and jointly develop offshore wind projects.

Meet Ocean Grazer

During CES Ocean Grazer welcomes utilities, investors and offshore wind developers to take our unique concept to the next level and jointly accelerate the energy transition. *The timing*

could not be better: the harbor in 2022 showed that the system meets its specifications and is very efficient. The first commercial demonstrators are currently under development where the ocean battery will stabilize the power system and provides blackstart power whenever a blackout occurs.

Growth Potential

The average development time of an offshore wind farm takes about 5 to 10 years. Without the implementation of an Ocean Battery, they will be dated before they are connected to the power grid. Scaling-up the offshore wind power generation from 60 GW today towards 1200 GW in 2050 is a huge challenge for the utility industry. The “Ocean Battery” transforms these challenges into opportunities. The angel investor has the shares their visionary and innovative mindset and welcomes the ambition of this startup. The market is ready for such a breakthrough as the Ocean Battery and so are the engineers.

About Ocean Grazer

Ocean Grazer is a spin-off of the University of Groningen, The Netherlands. These Dutch Water Engineers have solved the global energy storage problem and currently develop the first commercial demonstrator. The startup with unicorn potential is the *only* company that provides a *reliable, affordable and eco-friendly* energy storage system that provides a flexible and modular solution for *offshore* and inshore energy storage at Giga Watt hour scale.

Working principle

Ocean Battery is based on hydro dam technology that can be deployed at the source of power generation. Excess wind power is routed towards the Ocean Battery that pumps water from its underground reservoirs into the flexible bladders installed at the seabed. Whenever there is a demand for power water is routed through hydro turbines to generate electricity back into the underground reservoirs.

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Press kit

A press kit can be found <http://www.oceangrazer.com/ces/presskit>

Book a meeting during CES

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Visit us at CES

We are located at Eureka Park, booth 61928/22

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