

Thursday, 23 April 2020

Survey Campaign Completion Milestone Achieved for 3.0MW Lanzarote Wave Park Project

Bombora has completed a metocean survey off the northern coastline of the Spanish Canary Island of Lanzarote, an important milestone in the island's clean energy ambitions and progression of a 3.0MW wave park project. Data collected provides the crucial physical and environmental characteristics at the site to progress to the design and development phase. Bombora, together with strategic partner Enzen Spain, is part of a consortium responding to the decarbonisation strategy of the Cabildo de Lanzarote, the Spanish Canary Island's governing body.

The Cabildo de Lanzarote is committed to reducing the island's dependence on diesel-fuelled electricity generation whilst achieving minimal visual impact when adopting renewable energy sources.

Enzen Spain signed a four years collaboration agreement with the Cabildo of Lanzarote in 2018 and since then has worked together with the "Cabildo to meet and exceed the renewable energy penetration in the islands by promoting offshore renewable projects."

Bombora's patented mWave™ product, which sits invisibly beneath the ocean surface harnessing the power of waves passing above. Is an obvious technology partner to deliver this vision with its environmentally sensitive, grid connected wave energy project. The seabed at the site is ideal for mWave where the flat, rocky plateau provides an excellent foundation for the wave energy converter.

The first phase of the project will see 3.0MW of generating capacity installed in 2022. The project is currently progressing through the planning and consent stage.

Data was collected on the wave climate from the Acoustic Doppler Current Profiler (ADCP) recovered from the seabed following a 3-month monitoring period. Data from the survey will be assessed as part of a wave energy prediction to confirm the suitability of the site and calculate the annual energy production from mWave.

Following the successful survey campaign Bombora's Project Manager, Rory van Weerdenburg said:

“mWave provides an optimum solution to help Lanzarote and other Islands in the Canaries decarbonise its electricity supply as well as create a new industry for the local economy. I have met with a number of local suppliers and contractors who are keen to help support this innovative shift in the energy mix in the Archipelago”

Enzen Spain’s CEO Harish Gopal added:

“The Bombora solution is ideal as it meets two fundamental goals of the project to deliver power from sustainable, renewable sources and have minimal visual impact. Bringing new innovations to reality is a core part of Enzen’s DNA in delivering outcomes for our customers”

Bombora contracted local specialist company ECOS Canarias to complete the survey work. This was done using local vessels and personnel who gained knowledge and experience from the contract.

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Notes to editor:

About Bombora and mWave™

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- Bombora has developed a membrane style wave energy converter called ‘mWave™’. Located 10 meters beneath the ocean’s surface, similar to a fully submerged reef, it is invisible from the shoreline. As ocean waves pass over mWave, the membranes deflect pumping air through a turbine to generate electricity. Electricity is directly transferred to shore via a submerged cable.

PRESS RELEASE

For immediate release

- mWave is unique among wave energy converters as it simultaneously addresses the 'cost of energy' and 'ocean wave survivability' challenges.
 - Bombora is currently completing a 1.5MW mWave product validation project in Pembrokeshire, Wales with the support of a £10.3 million European Regional Development Fund (ERDF) grant through the Welsh Government.
 - Bombora is also working on a 3.0MW grid connected wave park project in La Santa, Lanzarote.
 - Bombora is progressing further opportunities in the Spanish Canary Islands, Japan, Ireland and Australia.
- www.bomborawave.com

About Enzen Spain:

Enzen is a global, professional, knowledge practice that focuses on gaining, refining and sharing expertise in the energy and utility sector. Providing strategic advisory and delivering of outcome-driven solutions to over 250+ leading businesses, governments, non-governmental organisations, and not-for-profits.

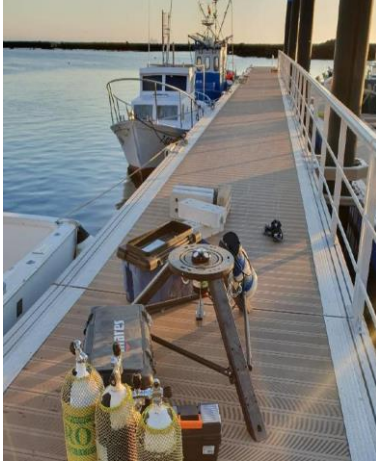
Enzen aspires to make energy and water accessible and affordable through sustainable to all through innovative models, technology and applications.

We work with customers across the value chain to deliver sustainable and lasting improvements to their efficiency and performance, increasing their value to their customers and owners.

The business, founded in 2006, has grown to over 4000 Knowledge Practitioners and developed across the globe. Enzen now has a presence in the UK, India, Australia, USA, Spain, Turkey, Middle-East, Africa and Kazakhstan, and working projects over 25 other countries.

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Images:



ADCP surveying equipment before deployment



La Santa, Lanzarote has abundant natural resource for the 3.0MW Wave Park