REPORT TO SHAREHOLDERS

QUARTER ENDED 31 DECEMBER 2022



BOARD OF DIRECTORS & CEO

Non-Executive Chairman Terry Stinson

Non-Executive Director Grant Mooney

Non-Executive Director Michael Fitzpatrick

Non-Executive Director Anthony Shields

Chief Executive Officer Jonathan Fievez

CONTACT DETAILS

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QUARTER HIGHLIGHTS

- EuropeWave Phase 2 Project (contract value €600k / A\$890k) progressing on schedule, advancing CETO commercialisation
- EuropeWave Phase 2 testing commencing soon power take-off (PTO) testing in Italy and wave tank testing in Spain
- EuropeWave participation validates CETO technical and commercial potential
- EuropeWave Phase 3, if selected, provides opportunity to deploy CETO at a world-renowned European site
- Collaboration with world-class partners continues Hewlett Packard Enterprise (HPE) (recent two year extension to collaboration agreement), Blue Economy CRC, Huon, Tassal, Hutchinson and more
- Carnegie's Product Validation Roadmap provides an accelerated route to commercialisation
- Growing uptake and international government support for wave energy to advance global net zero targets

Carnegie's CEO, Mr Jonathan Fiévez, commented on the Quarter:

"This marks the end of a pivotal year for Carnegie, with the team achieving step-change improvements in the performance of our CETO technology and validation of our commercial potential via selection in the EuropeWave programme and commencement of the MoorPower Scale Demonstrator Project. The team is working hard to deliver EuropeWave Phase 2 activities, with PTO and wave tank testing commencing soon in Spain. In parallel we are preparing for assembly and installation activities of the MoorPower Scaled Demonstrator during the upcoming quarter.

The Company looks forward to progressing our Product Validation Roadmap and commercial objectives in 2023. We have a world leading technology, enormous experience and the time is now to accelerate the uptake of this abundant renewable energy source."

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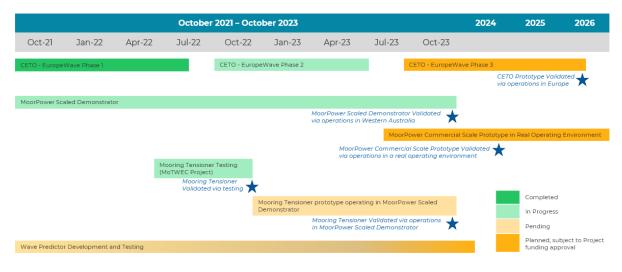


Who is Carnegie?

Carnegie develops ocean energy technologies to make the world more sustainable. The company provides commercially competitive technologies to enable the capture of wave energy to make electricity. Waves are an untapped energy source that is consistent, predictable, globally distributed and can be converted into clean, renewable electricity. The scale of the opportunity is significant, Ocean Energy Europe (OEE) forecasts significant growth for wave energy with a €653b market potential by 2050.

PRODUCTS

Carnegie successfully secured multiple funded programs over the past year. These projects facilitated the launch of the Product Validation Roadmap (figure below), which defines the activities to be progressed over the next 18+ months to validate Carnegie's products and their commercial readiness. The Roadmap will be the format used to provide regular updates to shareholders on progress against key milestones. The Roadmap builds on achievements of the previous Digital Development Pathway and is also fuelled by Carnegie's strategic partnerships.



CETO

CETO is Carnegie's core technology, a submerged buoy that sits a few metres below the ocean converting ocean waves into zero-emission electricity. Wave energy is following a similar trajectory to offshore wind and solar PV before early commercialisation, and Carnegie is working to reduce the cost of wave energy generation to facilitate its uptake and accelerate scale and customers globally.

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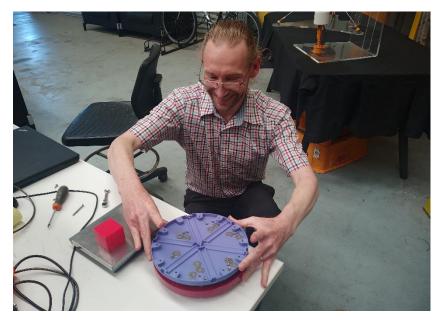


CETO Wave Energy Ireland's (CWEI) development and validation progress is encouraging and made through participation in the EuropeWave Pre-Commercial Procurement (PCP) programme, a €22.5m EU-funded advance wave programme to energy technologies for commercial uptake, running as a phased programme from 2021 to 2025.

Following the completion of Phase 1, valued at €291k (A\$463k), CETO Wave Energy Ireland was selected as 1 of 5 contractors to continue onto Phase 2, worth €600k (A\$890k), and running from September 2022 to June 2023. Phase 2 activities include Front End Engineering Design (FEED), power take-off (PTO) component testing, wave tank testing and related certification and commercialisation activities.



During the quarter, the CETO Wave Energy Ireland team commenced assembly of scaled CETO models, power take-offs and control equipment and preliminary dry testing in preparation for the upcoming Phase 2 wave tank testing campaign. The tank testing will commence in March at the Cantabria Coastal and Ocean Basin (CCOB) in Spain.



Engineer assembling and testing CETO prototype in advance of Phase 2 wave tank testing campaign in Spain

Through the recent 2-year collaboration agreement extension with HPE, the Reinforcement Learning based CETO controller will be tested during the Phase 2 tank testing campaign, to support validation of this innovative controller. Reinforcement learning is an area of artificial intelligence (AI) in which a



machine learning model is built with the ability to self-learn. This advanced controller has significant potential to improve the efficiency of the device and provide additional stability. Phase 2 testing will also validate the survivability of CETO in extreme conditions by testing novel survivability mechanisms.

The power take-off testing will also take place in Italy in early 2023 with support from CWEI's EuropeWave partner. VGA is providing support and access to new test rigs developed through the European funded IMPACT project and Hutchinson is undertaking some detailed belt testing and providing a belt for the full PTO test campaign.

After the completion of Phase 2, EuropeWave will select and award 3 of participants to deliver Phase 3 of the Programme. Selection for this phase will again be based on rigid, technical and commercial criteria. If selected, this final Phase would see the deployment of CETO at the open-water facilities of the Biscay Marine Energy Platform (BiMEP) in the Basque Country or the European Marine Energy Centre (EMEC) in Scotland. This is an exciting step in CETO's product validation roadmap and fully aligns with the Company's objectives to pave the way for a commercial CETO roll-out and attract future project partners.

Technology developers retain ownership of intellectual property rights (IPRs) generated during the EuropeWave Programme, and so the Company will be able to use the IP to exploit the full market potential of the CETO technology following the EuropeWave Programme.

MoorPower

Significant advancements, also made on the \$3.4m MoorPower Scaled Demonstrator Project, in collaboration with the Blue Economy Cooperative Research Centre (Blue Economy CRC). Carnegie's CETO-derived MoorPower technology is designed to deliver sustainable energy supply for vessels moored offshore, such as barges in the aquaculture sector, through wave energy, reducing reliance on diesel.

During the quarter, the Company acquired a barge to be utilised for the MoorPower Scaled Demonstrator. The barge is currently undergoing works to prepare it for installation of the MoorPower system.



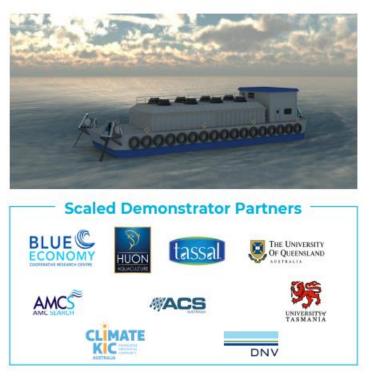
MoorPower Scaled Demonstrator Barge acquired and undergoing preparatory works at Carnegie's Research Facility



During the next quarter, procurement, assembly and manufacture will continue in preparation for onshore testing and on-the-water deployment expected around March 2023 at Carnegie's headquarters and research facility in North Fremantle, Western Australia. Aquaculture industry partners Huon Aquaculture and Tassal Group are supporting the project and could become the first adopters of the MoorPower™ commercial product.

Complimentary Products

The Blue Economy CRC supported Mooring Tensioner for Wave Energy Converters (MoTWEC) Project is developing a Mooring Tensioner that delivers passive tension for CETO and MoorPower products. Fatigue testing of



the Mooring Tensioner prototype is ongoing and will feed into followed by the design and integration of a prototype into the power take-off of MoorPower and EuropeWave CETO prototypes.

CORPORATE

Carnegie hosted an Investor Webinar for the Capital Markets community on Wednesday, 2 November 2022, to provide an update on the Company's strategy and recent progress. The webinar was well received, and a recording of the event can be accessed at the following link https://www.youtube.com/watch?v=Ead1p6PUbYU

Carnegie also held its Annual General Meeting (AGM) on Tuesday, 22 November 2022, and all resolutions were passed. At the AGM the Company's CEO, Jonathan Fiévez provided an updated presentation, and shareholders received a demonstration of the CETO and MoorPower products deployed through virtual reality.

Large Scale Generation Certificates (LGCs) generated through operation of the Garden Island Microgrid were sold in December at close to the recent peak market price, achieving \$194k in revenue from the sale.

EVENTS

Carnegie presented at several events during the Quarter, including at the International Conference on Ocean Energy (ICOE) in the Basque Country, Spain, in October. ICOE is the largest international conference on ocean energy, focused on the industrial development of renewable energy.

Carnegie's CEO and two European staff members attended the conference to present and connect with leaders in the ocean energy sector. The team was fortunate that two of Carnegie's Directors were

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already in Europe, so they were also able to attend the conference and join the CEO for additional meetings with partners around Europe and the UK.



Carnegie's CEO Jonathan Fiévez presented CETO during the EuropeWave Project Panel (left) and presented MoorPower to a European audience (right) at ICOE 2022

The Company also exhibited at the World Renewable Energy Congress (WREC) in Perth alongside the Blue Economy CRC to present the MoorPower Project. A tour of Carnegie's Headquarters and Research Facility in North Fremantle was conducted for selected WREC participants.



Carnegie, BMT and the Blue Economy CRC team at World Renewable Energy Congress exhibition (left) and WREC Participants touring Carnegie's research facility (right)

In October, Carnegie's Chief Technology Officer, Alexandre Pichard, also presented at the Edge: Engineering Ocean Solutions forum in Perth. Leading marine industry innovators came together at the event to discuss engineering solutions to ocean challenges and facilitate collaboration across Western Australia's blue economy.

FINANCIAL NOTES

The Company continues to manage shareholder funds providing a solid financial position to support and complete the projects currently underway.



At the end of the Quarter, Carnegie had approximately \$3.8m in cash reserves. The Company remains debt free and in a solid position financially.

Note 6 to Appendix 4C:

Payments to related parties of the entity and their associates were made during the Quarter. In total, approximately \$67k was paid to Directors and associates for salaries, superannuation and contracted services.

This announcement has been authorised by the Chairman and Company Secretary.

For more information

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ABOUT CARNEGIE & CETO WAVE ENERGY IRELAND

Carnegie Clean Energy (ASX: CCE) is a technology developer focused on delivering ocean energy technologies to make the world more sustainable. CETO Wave Energy Ireland is a wholly owned subsidiary of Carnegie Clean Energy. Carnegie is the owner and developer of the CETO[®] and MoorPower[®] technologies, which capture energy from ocean waves and convert it into electricity. Using the latest advances in artificial intelligence and electric machines, Carnegie can optimally control our technologies and generate electricity in the most efficient way possible. The Wave Predictor technology developed by Carnegie uses a proprietary machine learning algorithm to improve the performance of our wave technologies and has additional applications beyond the wave energy industry. The company has a long history in ocean energy with a track record of world leading developments.

https://www.carnegiece.com/

ABOUT EUROPEWAVE PRE-COMMERCIAL PROCUREMENT PROGRAMME



EuropeWave PCP is an innovative R&D programme for wave energy technology, which runs from 2022 to 2026. It will combine over €22.5m of national, regional and EU funding to drive a competitive Pre-Commercial Procurement (PCP) programme for wave energy.

Originally pioneered by the Wave Energy Scotland programme, the PCP model provides a structured approach, fostering greater openness, collaboration and sharing of risk between the public sector and technology developers. The programme will focus on the design, development, and demonstration of



cost-effective wave energy converter (WEC) systems for electrical power production that can survive in the harsh ocean environment.

Match-funded by the EU's Horizon 2020 programme, it is a collaboration between Wave Energy Scotland (WES), the Basque Energy Agency (EVE) and Ocean Energy Europe (OEE). This collaboration is closely aligned with the decarbonisation, industrial and competitiveness objectives of the European Green Deal, and is part of a range of actions being taken to meet the European Commission's targets of 100MW of ocean energy by 2025 and at least 1GW by 2030.

The 3 Phases of the Europe Wave PCP:

			Number of Contracts		Contract Maximum Value	
	Start date	End Date	Minimum	Anticipated	ex. VAT	inc. VAT
Phase 1 Concept Development	03 Jan 2022	29 July 2022	5	7	€ 291,667	€ 350,000
Phase 2 FEED and Modelling	26 Sept 2022	30 June 2023	4	5	€ 608,333	€ 730,000
Phase 3 Open- water deployment]	11 Sept 2023	29 May 2026	3	3	€ 3,750,000	€ 4,500,000
				Totals	€ 4,650,000	€ 5,580,000



This is part of the EuropeWave project that has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 883751.

https://www.europewave.eu/

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