ASX Announcement

Friday 22 April, 2016

Carnegie Conducts Wave Tank Testing at the University of Plymouth's COAST Facility

Leading wave energy developer, ASX-listed Carnegie Wave Energy Limited (Carnegie) is pleased to announce that it is undertaking a comprehensive wave tank testing programme of its CETO 6 technology design at the University of Plymouth's unique Coastal, Ocean and Sediment (COAST) facility.

CWE UK Chief Executive Officer Tim Sawyer and Carnegie's Senior Hydrodynamics Engineer Dr Ashkan Rafiee were both on hand as comprehensive testing of the CETO 6 performance across a range of sea states took place.

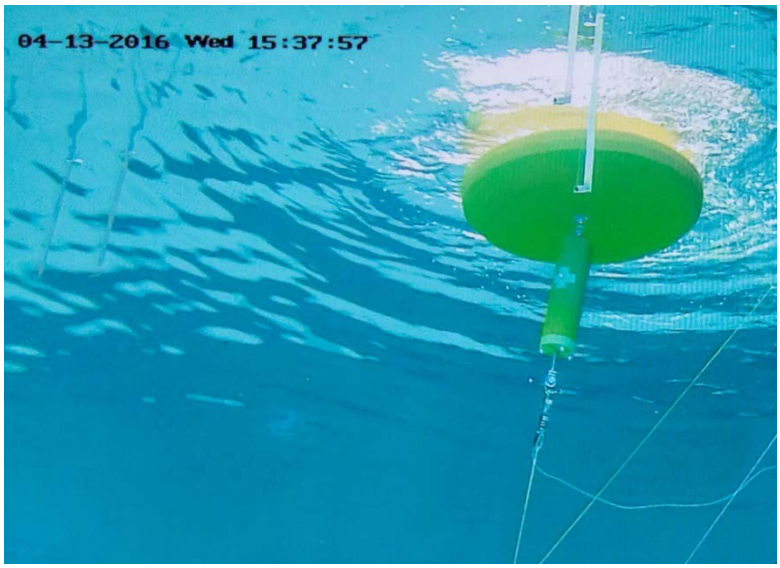
Mr Sawyer said the wave tank testing would build on Carnegie's internal modelling as well as previous wave tank testing and the successful in-ocean operation of the CETO 5 system in the now completed Perth Wave Energy Project.

"Over 340 separate tests will be carried out throughout the programme," Mr Sawyer said.

"These tests are aimed at evaluating and informing the design of our CETO 6 technology."

Specific outcomes include:

- Comprehensive measurement of CETO 6 performance across a range of operational and extreme sea states.
- Optimisation of Carnegie's preferred Power Take Off (PTO) system operation and control.
- Validation of Carnegie's in-house modelling suite.
- Detailed and validated load case for CETO system design.



CETO 6 model undergoing testing at the University of Plymouth's COAST Lab

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Mr Sawyer said wave tank testing allows Carnegie to quickly and cost effectively understand how the CETO device will interact with waves and other physical processes.

“What this does is optimise system design and performance ahead of larger scale testing in open water environments,” he said.

The commencement of this testing coincided with discussions with leading academic and industry experts aimed at exploring opportunities to support CETO wave development in the UK.

Carnegie also used this opportunity to hold a seminar hosted by the University of Plymouth and attended by members of the Partnership for Research in Marine Renewable Energy (PRIMaRE).

Presenters at the Seminar today Left to right: Professor Deborah Greaves, Professor in Ocean Engineering and Director of the Coast Laboratory. School of Marine Science and Engineering (Faculty of Science and Engineering), Mr Tim Sawyer, CWE UK's CEO, Stuart Herbert, Commercial Director, Wave Hub, Dr Daniel Conley, Associate Professor (Reader) in Coastal Dynamics Modelling (Wave Hub), School of Marine Science and Engineering (Faculty of Science and Engineering)

Attendees included representatives from the Universities of Plymouth, Exeter, Southampton, Bristol and Bath, The Marine Biological Association of the UK, Plymouth Marine Laboratory, South West Marine Energy Park and Wave Hub.

The seminar offered an opportunity to bring together industry and academia, share Carnegie’s development approach, and discuss opportunities for student development and collaboration.

Professor Deborah Greaves, Professor in Ocean Engineering and Director of the Coast Laboratory at the University of Plymouth said

"We are delighted to be hosting and working with Carnegie Wave Energy on such a comprehensive testing programme and to be discussing opportunities for further collaboration. Their visit has also enabled us to bring together industry representatives, academics and students for discussion and exploration of key issues in the sector.”

Mr Sawyer added that working with academia at specialist facilities such as COAST was an important part of Carnegie’s strategic approach to developing its CETO technology.

FACT FILE

Carnegie

Carnegie Wave Energy Limited is an Australian, ASX-listed (ASX: CWE) wave energy technology developer. Carnegie is the 100 per cent owner and developer of the CETO Wave Energy Technology intellectual property. Carnegie is focussed on commercial opportunities in key target markets including UK, Europe and remote islands.

CETO

The CETO system is different from other wave energy devices as it operates under water where it is safer from large storms and invisible from the shore. CETO technology characteristics include:

- Converts ocean wave energy into zero-emission electricity and desalinated water.
- Minimal environmental and visual impact as well as attracting marine life.
- Fully-submerged in deep water, away from breaking waves and beachgoers.

University of Plymouth COAST Facility

Housed in the new Marine Building at Plymouth University, the Coastal, Ocean And Sediment Transport (COAST) laboratory provides physical model testing with combined waves, currents and wind, offered at scales appropriate for device testing, array testing, environmental modelling and coastal engineering. This is a flexible facility with the capability to generate short and long-crested waves in combination with currents at any relative direction, sediment dynamics, tidal effects and wind.

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