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Morag Watson Director of Policy Scottish Renewables









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Ivan McKee MSP Minister for Business, Trade, Tourism and Enterprise









The turning tide – bridging the divide between potential and powerhouse









Caitlin Byers

Development Manager (Integration & Transition), Crown Estate Scotland

Richard Arnold

Policy Director, UK Marine Energy Council

Henry Jeffrey

Head of Policy and Innovation Group, Institute for Energy Systems, The University of Edinburgh

Tim Hurst

Managing Director, Wave Energy Scotland



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Fireside chat









Claire Mack Chief Executive Scottish Renewables









Andrew Smith

Partner
Greenbackers Investment Capital

Alasdair Campbell

Investment Executive, Asset Management InfraRed Capital Partners Limited



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Leaders debate: between the devil and the deep blue sea. Making Scotland's marine energy ambitions a reality









Elain MacRae

Head of Energy Strategy
Highlands and Islands Enterprise









Andrew Scott Chief Executive Officer Orbital Marine Power



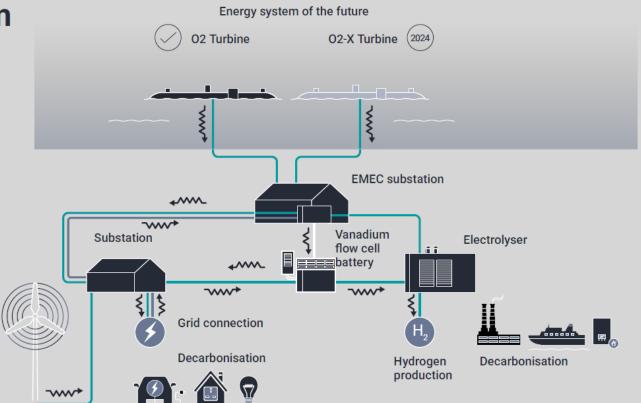
O R B I T A L MARINE POWER

ANDREW SCOTT

CHIEF EXECUTIVE OFFICER



Energy system of the future











Gavin McPherson Head of Policy & Research Nova Innovation











Cameron McNatt Managing Director Mocean Energy Ltd





Our wave energy developments

Cameron McNatt

Managing Director Mocean Energy cameron.mcnatt@mocean.energy

Prepared for Scottish Renewables Marine Conference 2022

25 May 2022

www.mocean.energy



Who are Mocean Energy?



Mocean was founded in 2015

Offices in Edinburgh, Aberdeen & Orkney, Scotland.

£8.2m invested in technology development

Team of 17 industry leaders, covering 8 nationalities,

- Trust
- Expertise
- Awesomeness
- Morals

We envision a world where:

People live in harmony with the ocean and each other through sustainable energy



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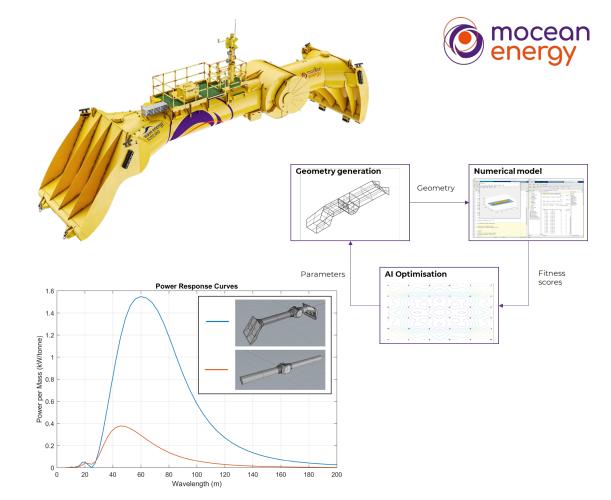
Technology

Innovations:

- Novel geometry patented
- Software optimisation
- Direct drive generator

Benefits:

- Performance
- Survivability
- Reliability
- Maintainability
- Not depth limited



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Blue X testing









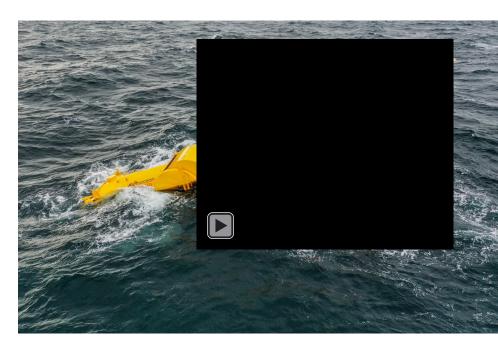
Tested our Blue X device from June - November, 2021

At European Marine Energy Centre's Scapa Flow test site in Orkney.

Supported by WES and Ocean DEMO

This testing provided invaluable lessons learned:

- Power production: up to 5 kW sustained power and 30 kW instantaneous peak power.
- Communications: 99.99% comms system uptime
- Survivability: diving through waves to shed loads, equipment autonomously entering survival mode
- Reliability: no major equipment failures.
- Operations and maintenance: installation, removal, access as sea, quick-turn-around maintenance.



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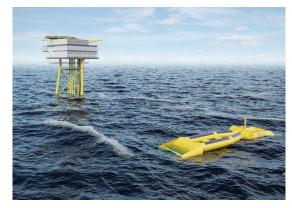
Technology Roadmap



Our design process, learning by doing, and early revenues accelerates the development of larger scale technologies.



Small scale: 10's kW, *Blue Star*Subsea tiebacks, residential robotics, marine domain awareness.



Mid scale: 100's kW, Blue Horizon

Small platforms, aquaculture, islands, remote communities, vessel charging.



Combined wind-wave farms, large offshore platforms, islands.

Renewables for subsea power



In 2022, in Orkney, we are testing a system:

- Mocean Energy: Blue X
- Verlume: subsea batteries
- Transmark Subsea: autonomous underwater vehicle
- Baker Hughes: subsea control system

Funded by:

- Net-zero Technology Centre
- £600k from Industry Harbour Energy, Serica Energy

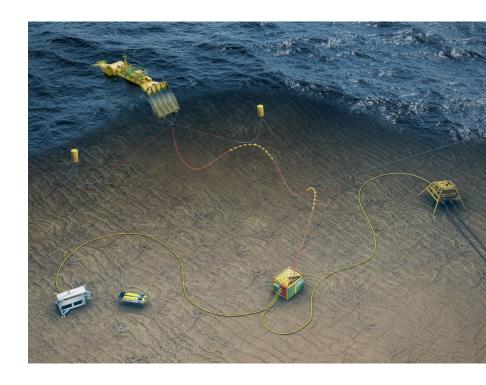












EuropeWave Phase 1



Mocean were awarded a Phase 1 contract in the EuropeWave programme where we are developing a 250 kW WFC – Blue Horizon 250

Key features:

Power: 250 kW

Mass: 350 tonnnes

· Length: 50 m

PTO: direct-drive electrical

















People living in harmony with the ocean and each other through sustainable energy

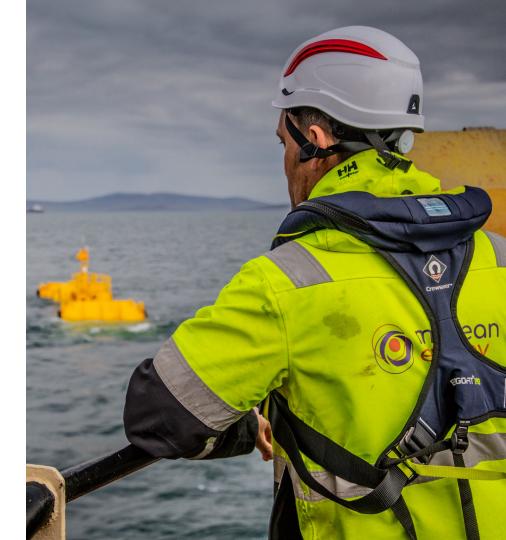
Cameron McNatt

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Prepared for Scottish Renewables Marine Conference 2022

25 May 2022

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Sean Parsons Director of External Affairs SIMEC Atlantis









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Chief Executive Officer, Orbital Marine Power

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Cameron McNatt

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Sean Parsons

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