

Wave Energy Road Mapping Workshop

Copthorne Hotel, Plymouth

Tuesday, 28th January 2020 – Wednesday, 29th January 2020

Welcome and Introduction

Professor Deborah Greaves OBE FICE MRINA

Director, Supergen ORE Hub

University of Plymouth

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- **Aims of the workshop:**
- Understanding of the current landscape, in particular the main challenges faced in marine wave energy research
- Exploring the potential opportunities for marine wave energy to help meet the Net Zero target
- Identifying how UKRI and EPSRC can contribute to improving the health of this discipline
- Identification of priority areas requiring development/support going forward
- What evidence is needed to make the case for wave energy investment
- Identification of what policy interventions are required to enable wave energy development
- What are the practical steps required to enable a step change in wave energy

Background

- On 20th August EPSRC hosted a one-day workshop in Swindon
- Representatives from academia, industry, policy and various councils in UKRI were in attendance.
 - Understanding of the landscape, in particular the main challenges faced in marine wave energy research
 - Exploring the potential and opportunities for marine wave energy to help meet the Net Zero target
 - Identifying how UKRI and EPSRC can contribute to improving the health of this discipline and priority areas going forward
 - Where are we now?
 - Why the have current and previous rounds of devices failed to reach market?
 - Industry readiness and challenges
 - USPs of Marine Wave

Where we are now?

- Role of wave energy in UK energy mix
 - 2050 targets; diversity; balancing
- Progress and current status of wave energy in the UK
 - Large scale demonstration achieved
 - Costs need to reduce
 - Convergence of designs lacking
 - Proportion of UK based developers reduced
- International position
 - EU, China and north America active in wave energy development

Road Mapping

- Recommendations for policy to drive the sector forward such as the introduction of a contract for difference
- Priority fundamental science and technology challenges
- The type of high TRL work required in terms of demonstration and deployment.

Agenda

Day One	
12:00 – 13:00	LUNCH
13:00 – 13:10	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Welcome and Introduction to the Workshop including aims and outputs </div> <div style="width: 45%;"> Prof. Deborah Greaves – Supergen ORE Hub Graham Foster – MPS </div> </div>
13:10 – 13:20	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> WEC developer’s experience </div> <div style="width: 45%;"> Bill Langley - Innogy Renewables </div> </div>
13:20 – 13:30	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Utility investment experience </div> <div style="width: 45%;"> Henry Jeffery – Supergen ORE Hub </div> </div>
13:30 – 13:40	GVA and Systems benefits
13:40 – 14:10	Q&A session
14:10 – 14:15	Technical Challenges: Introduction to Breakout Session 1 – Prof. Deborah Greaves
14:15 – 15:15	Break out discussions and plenary feedback
15:15 – 15:30	Tea/coffee
15:30 – 16:15	Panel Session – panel of speakers from both days
16:15 – 16:20	The future of wave energy: Introduction to Breakout Session 2 – Henry Jeffrey
16:20 – 17:30	Break out discussions and plenary feedback
19:00	DINNER – Buckland Suite, Copthorne Hotel

Day Two – Wednesday 29th January

09:00 – 09:05	Introduction to Day 2 Agenda	Prof. Deborah Greaves
09:05 – 09.20 09.20 – 09.35	Niche applications for wave energy Structured Innovation Strategy for Wave Energy	Christopher Pearson OGTC Elva Bannon WES
	New approaches: Introduction to Breakout Session 3 – Prof. Deborah Greaves	
09.35 – 10.35	Break out discussions and plenary feedback	
10.35 – 11.00	Tea/Coffee	
	Introduction to panel discussion	Henry Jeffrey
11.00 – 11.45	Panel discussion 2: Environmental Aspects	
	Introduction to Breakout Session 4 – Henry Jeffrey	
11.45 – 13:00	Break out discussions and plenary feedback	
13:00 – 14:00	LUNCH - 50 Degrees North Brassiere, Copthorne Hotel	
	Practical Steps: Introduction to Breakout Session 5 – Prof. Deborah Greaves	
14:00 – 15:30	Break out discussions – next steps and outputs	
15:30 - 16:00	Plenary feedback and CLOSE	