



# International Forum on Research & Development on MRE Environmental Effects

Inaugural Webinars April 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup> 2020

**Andrea Copping**  
Pacific Northwest National Laboratory

**Jennifer Fox**  
Aquatera



# OES-Environmental & ORJIP OE

- Ocean Energy Systems – Environmental
  - 15 OES nations committed to understanding environmental effects of MRE
  - Led by US: (Dept. of Energy, BOEM, NOAA)
  - 4 years phases, implemented by PNNL
  - Culminates in State of Science report: 2020 SoS due out in May
- ORJIP Ocean Energy
  - UK-wide collaborative programme
  - Secretariat: Aquatera, Marine Space & EMEC
  - Forward Look 2020



# Purpose of the International Forum

- Showcase up to date understanding of environmental effects R&D internationally
- Demonstrate advances in monitoring techniques and technologies through research studies and around existing MRE projects
- Provide access to the researchers and monitoring leads who are at the front of knowledge acquisition on potential effects
- Understand the questions, needs, and interests of the regulatory, development, and research communities around MRE effects

## Three days of webinars:

- April 21<sup>st</sup> – Updates on monitoring & research around turbines
- April 22<sup>nd</sup> – Integrated monitoring platforms for MRE devices
- April 23<sup>rd</sup> – Updates on monitoring and research around wave devices

# Updates on Monitoring & Research around Turbines

1. MeyGen
  - Doug Gillespie, Sea Mammal Research Unit
2. Nova Innovation
  - Kate Smith
3. Sustainable Marine Energy
  - Craig Chandler
4. Sabella
  - Diane Dhomé
5. Minesto
  - Gemma Veneruso, Bangor University

# Design and implementation of integrated monitoring platforms for monitoring around MRE devices

1. Adaptable Monitoring Platform
  - James Joslin, University of Washington
2. FLOWBEC
  - Benjamin Williamson & Beth Scott, University of Aberdeen
3. Plug and Play Platform
  - Gordon Hastie, Sea Mammal Research Unit
4. FAST Platform
  - Dan Hasselman, Fundy Ocean Research Center for Energy

# Updates on Monitoring and Research around Wave Energy

1. Background on wave energy research and monitoring
  - Jennifer Fox, Kate Smith, Aquatera & Andrea Copping, PNNL
2. SEAWave
  - Luke Holmes & Emma Sheehan, University of Plymouth
  - Anthony Bicknell & Matthew Witt, University of Exeter
3. WESE
  - Juan Bald, AZTI Tecnalia
  - Teresa Simas, WaveEc- Offshore Renewables
4. Lysekil
  - Anke Bender, Uppsala University



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- We hope to hold another forum in 2-6 months, depending on interest
- Please provide input on topics of interest, suggested speakers
- Add to chat box now
- Send input to:  
Dori Overhus ([dorian.overhus@pnnl.gov](mailto:dorian.overhus@pnnl.gov))

And please join us on webinars the next two days:

- **April 22<sup>nd</sup>** – Design and application of integrated monitoring platforms for monitoring around MRE devices
- **April 23<sup>rd</sup>** – Updates on monitoring & research around wave devices