



Tidal Research – Unlocking Solutions through International Collaborations

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OERA Overview

Established in 2006 with provincial seed money

Three focus areas

- Offshore geoscience and environmental research
- Marine renewable energy
- Marine sound

Members - all NS research intensive universities and NS Gov.

Governed by Board of Directors

Staff of 5

What OERA Does



Tidal Energy Research Program

- Number of projects – 53
- Total research expenditures (MRE) - \$3.6 million
- Timeframe: 2007-2014

Areas of Study:

Acoustic
Tracking /
Monitoring

Sediment
Dynamics

Animal
Behaviour

Near and Far
Field Effects

Strategic
Environmental
Assessments

Socio-economic
impacts

Resource & Site
Characterization

Why Collaborate with Innovate UK?

- Share a common interest in developing tidal resources
- Face many of the same challenges
 - Environmental impacts
 - High energy sites
 - Technical – turbines, deployment, electrical connections, operations, etc.
 - Competitiveness – need for cost reduction
 - Developing an industry – from single turbines to arrays
- Considerable research expertise in both jurisdictions
 - Avoid duplication of efforts
 - Access to new knowledge and experience
- Leveraging further funding
- Opportunity to open up new markets

TSB/OERA/DOE Memorandum of Understanding

Signed on March 3rd, 2014

Framework for bilateral collaboration in tidal research between Canada and the United Kingdom

Purpose is to identify and support applied research projects through competitive calls

Goal to support the acceleration of the tidal energy sector in both jurisdictions.

Overall Call Objectives – Canadian Perspective

Call Focus - Environmental monitoring, sensing, and instrumentation technologies for application and deployment in high flow marine environments

Call Objectives

- Bring technology innovation to the sector...
 - ✓ to acquire better data
 - ✓ To reduce risk, uncertainty and costs
- Bring together Canadian and British expertise and experience resulting in benefits and opportunities for both countries

Project Consortia and Funding Model

- Minimum one Canadian business and one UK business;
- Research organizations from Canada and/or UK eligible as partners in consortia
- Project Lead must be a business, Canada or UK
- Well balanced consortiums whereby no single organization or country can be >75% of total project costs
- SMEs up to 60% funding
- LEs up to 50% funding
- Research Organizations and Not for profits as a partner, eligible for up to 100% of their costs
- Canadian consortia expected to seek leveraged funds
- Deployment requirement in Fundy waters and/or UK waters (as approved by Innovate UK)

Closing Thoughts

To date registrations total

- Canada - 16
- UK - 44

Over 60 participants in brokering session in early October

Indication that interest is strong and that some interesting projects will emerge by Nov. 28th EOI closing date.

Encourage companies and researchers to continue making connections and explore possibilities

Thank you

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