

Q&A from In-Stream Tidal Webinar, 9 October 2014

Questions

- Q** Tom Clark: Will these slides be made available please?
- Q** Farbod Khoshnoud: Hello, are the slides available online? I missed the earlier slides.
- A** Yes, the slides, pitches and a recording of the webinar will be made available on our website. We will circulate the relevant links to all registrants in due course.
- Q** Roger Grosvenor: Is any aspect of testing of scale models in water flumes (or similar) able to be included? Seem as if it has to be full-scale commercial deployments
- A** We are looking for site deployment (ie in-ocean) as part of the project. This does not exclude scale or tank testing in addition as part of a staged process if desired but the project must include deployment to sea.
- Q** Ray Chegwin - National Physical Laboratory 2: Will contact details for attendees be made available?
- A** Yes where we are able to share these.
- Q** Charlie Sleep: Can your project be applicable to Tidal head rather than tidal flow projects?
- A** No. This call is specifically aimed at in-stream tidal energy.
- Q** Simon Cheeseman: I'm sure it is in the participant criteria, but what is the project timeline boundaries and hence funding boundaries. How long can a project last and what is the earliest that funding can be drawn down.
- A** Projects can last up to 36 months. We anticipate that projects will be starting in late spring/early summer 2015.
- Q** Ocean Sonics: Is IRaP or AIF funding on top of OERA funding?
- A** Yes. However IRaP and AIF funding need to be sought independently and selection for funding as part of this call does not guarantee funding from other programmes. Part of the reason for a long lead-in time for the call is to allow Canadian organisations to align funding bids.
- Q** Susanne Craig: There was no mention in the eligibility document of the mandatory in water aspect of any sensing systems. Can you clarify please? i.e. are even above-water systems ineligible?
- A** Projects must include deployment of the sensor system in the water and in a sea or ocean environment.
- Q** Matthew Finn (EMEC): There was mention of parallel funding options in Canada. Could you highlight any similar options from the UK side?
- A** Parallel funding in Canada is possible because OERA funding is not considered to be public money. In the UK, while obtaining other public

funding for the project is possible it would reduce the level of grant from Innovate UK as we are bound by EU state aid laws.

Networking discussion and comments

Roger Grosvenor: For us, the increased datasets would aid the design of condition monitoring and prognostics systems,... and to validate mathematical modelling for realistic flow conditions

Roger Grosvenor: BIG apologies, will have to go soon! Have enjoyed & found informative. Am happy for my contact details to be shared....and/or search for CMERG at Cardiff University. cheers!

Tom Clark: Donna, you mentioned 'reference data'. What sort of data do you mean?

Donna Dykeman (Granta Design): Thank you for your question Tom. Please be in touch if you would like more information or to discuss a collaboration.

Alex Hay: Is the water in the FloWave facility fresh or saline?

Stuart Brown: @Alex: The water in the tank is fresh. Saline would give us too much of a corrosion issue given the variety of metals in the submerged equipment. An adjustment for density difference can be made during the processing, but my technical colleagues could comment on that offline.

Farbod Khoshnoud: I would like to know if there is anybody/company who might be interested in 'Self-powered Sensors'. This is a collaborative research/work with Brunel University of the University of British Columbia.

Ray Chegwin - National Physical Laboratory 2: Farbod. NPL has a team with expertise in Functional / smart materials used in such sensors. We can discuss out of meeting if interested

Farbod Khoshnoud: Dear Ray, this is my email and contact information: E-mail Farbod.Khoshnoud@brunel.ac.uk; <http://people.brunel.ac.uk/~mestffk/>

Ray Chegwin - National Physical Laboratory 2: Thanks Farbod. Email: ray.chegwin@npl.co.uk

Matthew Finn (EMEC): EMEC sites setup for field tests with a number of parallel data streams and baseline info. So please do get in touch to discuss your field work requirements

Ray Chegwin - National Physical Laboratory 2: Mark. NPL is UK's national measurement institute with expertise in underwater noise modelling & measurements. We'd welcome a discussion?

Ocean Sonics: Hi Ray - NPL have one of our instruments now.

Stuart Brown: @Mark: Might be an opportunity to use your instruments in FloWave - specifically to test the ability of your instrument to pick up mammal noises against the background noise - our current generation system probably sounds quite a lot like a tidal turbine in operation.

Ocean Sonics: Stuart - Yes. let's discuss it offline.

Tom Clark: Hi Eric, we've talked briefly before but should have more of a chat. We have a software framework and IP allowing us to classify flow according to Coherent Structural Content, use that for simulation, and then integrate that into real time control - we're already doing the first two using your AD2CP! Let's talk more offline :)

Brian Sellar: Hi, For Clarification: ReDAPT Project - ETI £13M 2011-2014. Alstom, University of Edinburgh, DNV, EMEC, EDF, EON. Unprecedented field and machine synched data around the Alstom 1MW. University of Edinburgh designed, integrated, installed and customised sensor arrays including Nortek sensors. Instrumentation array collecting data in real time right now including the focused beam (convergent) system. Looking to Collaborate. Brian.Sellar@ed.ac.uk for more info. Thanks!

Eric Siegel - Nortek: Thanks for the clarification on REDAPT. Certainly lots of people doing a lot of good work... hard for me to keep track of.

Jean-Francois Bousquet: If you want more information in our lab expertise, you can email me at jbousquet@dal.ca