



ORJIP Ocean Energy

Programme Update

15 September 2015

Sponsors



Secretariat





ORJIP background

- Offshore Renewables Joint Industry Programme (ORJIP) is a UK-wide collaborative programme of **environmental research** with the aim of **reducing consenting risks** for offshore wind and marine energy projects.
- ORJIP **Offshore Wind already established** and managed by Carbon Trust.
- **ORJIP Ocean Energy was formed in March 2015** following a significant amount of work that demonstrated that a similar programme was needed for covering wave, tidal stream and tidal range.
- The programme brings together industry, regulators, Statutory Nature Conservation Bodies, academia and other key stakeholders (including funders) to **work together on key environmental and consenting issues** that the respective **wave and tidal sectors** are facing.

ORJIP Ocean Energy

- The programme sponsors are:



- The programme sponsors have commissioned a Secretariat to manage the programme. For the initial 15 month pilot phase the Secretariat is being run jointly by:



- The Secretariat will seek to stimulate the **identification and collaborative commissioning of the priority research projects** by **identifying project leaders and funders** from within the network of members. The Secretariat will be the main point of contact for ORJIP Ocean Energy and be managed by a Steering Group.



Structure & Funding

- The ORJIP Ocean Energy **structure and funding is different** to that for ORJIP Offshore Wind in that the **intention is for the projects to be publically funded where possible**, given that **wave and tidal developers are currently not in a position to contribute significant funds.**
- The developers may **contribute through the use of project sites and staff resource**, etc.

Progress

- **Steering Group** convened and Network formed
- **Call for evidence** carried out with the Network to inform the Forward Look
- First Steering Group meeting in June 2015
- **Website live** – www.orjip.org.uk
- Mailing list established
- First version of **Forward Look** complete and high **priority strategic research projects identified**

Prioritisation process

- Areas of known and demonstrated negative impacts, where they exist, have been identified – so they can be avoided or mitigated as much as possible
- Topics where there are significant opportunities for benefit have been highlighted – to ensure these benefits are better exploited
- Sources of possible significant risk have also been considered – seeking to demonstrate the real level of risk posed
- Any remaining areas of uncertainty or gaps in knowledge and understanding are also a key focus
- Consequently the identified key issues are all considered as consenting risks but not necessarily actual impact problems they may be opportunities or distractions as well

High priorities

- Underwater collision risk (mammals) – risk and uncertainty
 - Near field monitoring of behaviour
 - Research into the likelihood, probability and consequences of collision
 - Development of instruments and methodologies for monitoring
- Underwater noise – risk and uncertainty
 - Development of noise propagation models
- Displacement of wildlife - uncertainty
 - Development of an agreed approach to assessment

High priorities

- Regulatory issues – risk, uncertainty and dissemination
 - Review of the Potential Biological Removal (PBR) approach to regulation
 - Development of methods/approaches to managing risk
 - Agreed methods/processes for developing Project Environmental Management Plans (PEMPs) for demo and commercial scale projects
- Shipping and navigation – avoidance and mitigation
 - Further development of approaches to assessing potential impacts on shipping and navigation
- Socio-economics -optimisation
 - Further understanding of the potential opportunities and impacts of marine energy development in rural communities

ORJIP Ocean Energy projects

- General
 - **Monitoring** to help better understand wildlife behaviour around machines and arrays (including development of instruments)
 - Further development of **mitigation** measures
 - Further research into potential **population level effects**
 - **Review and dissemination** of environmental monitoring results

Next Steps

- Liaise with Network participants to **identify organisations/consortia** interested in progressing high priority strategic projects
- Identify potential **support mechanisms** for each project liaise with potential funding organisations
- **Establish strong links** with other research programmes and initiatives
- **Promote the objectives** of the Forward Look
- **Maintain research database** of 'key findings' and 'gap analysis'
- **Disseminate information** regarding research status, possible funding opportunities and new research to the Network via the Mailing List

OVERVIEW

- ORJIP is a UK-wide collaborative programme of environmental research with the aim of reducing consenting risks for wave, tidal stream and tidal range projects.
- Focussed on physical, ecological, sea-user and socio-economic issues
- It recognises the distinctive and different priorities in the wave and tidal sectors and between different types of technologies – not one fits all
- It does not have an established funding pot – therefore it is seeking to help steer leveraged funding from other sources
- It seeks to be an evidence based process recognising what we know and well as what we don't know
- The priorities that have been established cover impacts, benefits, risks, uncertainties, gaps and dissemination
- ORJIP Ocean Energy will be sharing its findings and will be co-ordinating its activities with other international initiatives

Further info

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