

OEF - Technology Stream

Rémi Gruet

Policy & Operations Director

Ocean Energy Europe



Technology Workstream / TP Ocean

Chair - Fiona Buckley – GDF SUEZ

Co-chair – Ken Street – Alstom

Co-chair – Kai Koelmel – Siemens

Secretary General – Rémi Gruet – Ocean Energy Europe

Working Groups

1. Measurements, data, modelling, assessments (standards, data sharing, cost modelling, resource...)
 - Chair - Bjoern Elsaesser
 - Co-chair - DNV GL Ed Mackay
2. Logistics, installations, O&M, moorings, foundations
 - Chair - Christophe Cognard – DCNS
 - Co-Chair - Gareth Davis - Aquatera

Working Groups

3. Prime-mover/devices - design, blades, materials, structural integrity, efficiency, performance improvement, reliability, survivability
 - Chair - Andrew Scott – Pelamis
 - Co-Chair - Peter Fraenkel – Fraenkel Wright

4. Components, sub-systems – PTO, array, connectors, electrical equipment, reliability, survivability, performance improvement
 - Chair - Andrew McDonald – ORE Catapult
 - Co-Chair - Mikael Sidenmark – Ocean Harvesting

WG	Rank	Topics	What are the issues? Why do we need to work on it?	Objectives - What to do what to achieve
4		Ancillary services	need for increased consideration of ancillary services by project developers?	fault-ride-through network balancing use equipment to the benefit of the grid even not generating
4		multiple connection of several turbines subsea	technology must be developed	enable non-radial array connection avoid "ugly wind-like monopiles"
4		standardisation/qualification of components	testing needed before full-size	reduced LCOE
4		Power take off Power control/ smoothing	efficiency of PTO reliability of PTO	meet the grid quality requirements, move from peak power to continuous delivery
4		Grid integration	lack of connection to best resources	Better use of existing grid Get to the best resource/open up connection possibilities Combining energy generation technologies

Next steps – next meeting

- Next meeting
 - 1st week September
 - Hosted by PLOCAN
- Working group mission prior to meeting
 - Addition of potential new topics if appropriate
 - Ranking of topics by priority (criteria to be sent by the Steering Committee)
 - First analysis of each topic's research needs
 - Contacts with topically relevant third parties

To Do list for Executive Committee

- Minutes of meeting
 - List of topics per Working Group
 - Information on TP Ocean
- Criteria for ranking of topics
- Information on online communication/work
- Additional relevant literature to TP Ocean work
 - SI Ocean reports
 - TP Wind, TP Solar... Strategic Research Agendas
 - SET-Plan Integrated Roadmap ocean submission