

TCP on Ocean Energy Systems (OES TCP)

The OES TCP connects organisations and individuals working in the ocean energy sector to accelerate the viability, uptake and acceptance of ocean energy systems in an environmentally acceptable manner. The work of the OES TCP covers all forms of energy generation in which sea water forms the motive power through its physical and chemical properties i.e. wave, tidal range, tidal and ocean currents, ocean thermal energy conversion and salinity gradients.

Main areas of work

- Assessment of environmental effects and monitoring efforts for ocean wave, tidal and current energy systems
- Cost of energy assessment for wave, tidal, and ocean thermal energy conversion (OTEC) at an international level
- Performance metrics international framework for ocean energy
- Wave and tidal current energy numerical modelling

Key activities and accomplishments (2017-2018)

- Development of an [international vision for ocean energy](#)
- Reliable and [credible levelised cost of energy assessment for ocean energy](#)
- State of science report on the interactions and effects of ocean energy devices on the marine environment
- Publicly available, searchable online database [TETHYS](#) on environmental effects of ocean energy
- Interactive worldwide web [GIS database](#) for ocean energy



MeyGen deployment (Source: SIMEC Atlantis Energy)



CorPower Ocean C3 deployment at EMEC (Source: CorPower Ocean)

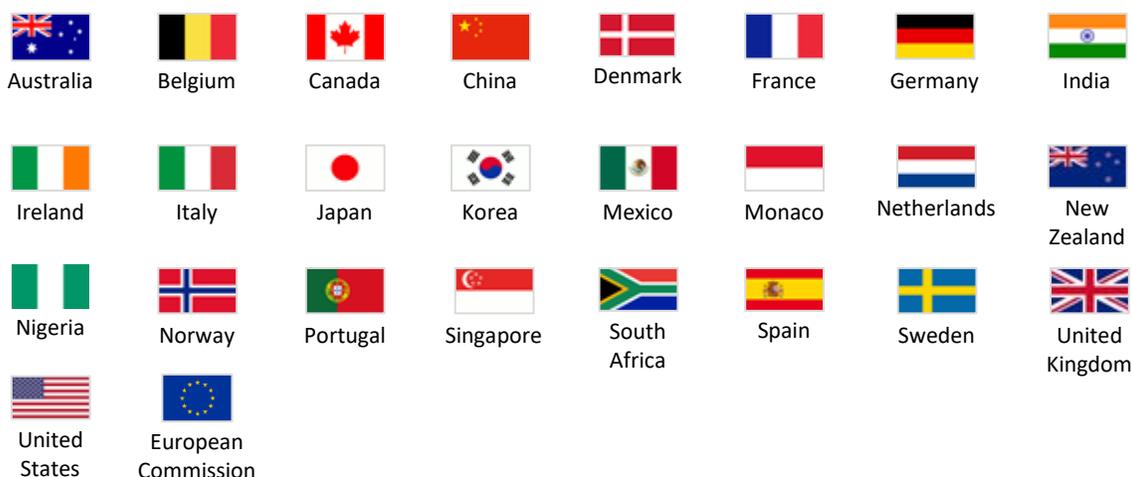
New priorities and projects (2019 – 2020)

- Assessment of environmental effects and monitoring efforts for wave, tidal and current energy systems
- Analysis and forecasts of the cost of ocean energy converters
- Assessment on jobs creation in ocean energy
- Ocean energy in insular conditions

Area of interest for multilateral collaboration

- Sponsorship of the International Network on Offshore Renewable Energy ([INORE](#))
- Collaboration with the TCP on Wind Energy
- Collaboration with the OECD on jobs assessment for ocean energy
- Collaboration with the International Conference on Ocean Energy ([ICOE](#))

Membership



Why should your organisation become a member of the OES TCP?

The OES TCP facilitates:

- access to advanced R&D teams in participating countries;
- development of a harmonised set of measures and protocols for the testing of prototypes;
- reduction of national costs by collaborating internationally;
- creation of valuable international contacts between government, industry and science.

Through regular meetings, each member provides a well established platform where high-profile ocean energy issues can be addressed by experts and officials close to government policy making in each member country.

TCP Chair: Henry Jeffrey, United Kingdom (henry.jeffrey@ed.ac.uk)

TCP primary contact: Ana Brito-Melo (ana@wavec.org)

IEA contact: Hideki Kamitataru (hideki.kamitataru@iea.org)



www.ocean-energy-systems.org