



Clean Energy Transition Partnership ETIP Ocean Round Table 4 March 2021

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History

OCEANERA-NET: 2013 to 2018

- Ireland, France, Netherlands, Portugal, Spain, Sweden, UK
- Flanders, Canary Islands, Basque Country, Cantabria, Asturias, Scotland
- mix of national programmes, economic development agencies, energy agencies

OCEANERA-NET COFUND: 2017 to 2022

- Ireland, Portugal, Spain, Sweden
- Basque Country, Brittany, Pays de la Loire, Scotland
- Drop off in interest at national level
- New regions

Scottish Enterprise Coordinator for both



OCEANERA-NET COFUND Calls

OCEANERA-NET:

First Joint Call 2013 – 6 projects; €4m

Second Joint Call 2015 – 7 projects; €4.1m

OCEANERA-NET COFUND:

Cofunded Joint Call 2017 - 9 projects; €7.7m

Second Joint Call 2019 – 5 projects selected; 3 approved - €3m

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 731200



Projects



- Wave energy devices – several, for different uses / conditions – some have been funded at different stages of development
- OTEC device – development of heat exchanger
- Integration with local energy systems
- Key components, sub-systems – turbine blades, blade pitch regulation
- Advanced materials - coatings
- Foundations, anchoring, mooring, cables
- Installation, monitoring, maintenance systems
- Tools, resources, models, platforms e.g. reliability, resource assessment, economic/markets



Things that have worked well

- Supported development of several promising WECs - continuity
- Technology developers working together and with supply chain
- Complementing larger H2020 demos by focusing on key components
- Test centres / research organisations working together and with SMEs on new tools, models, research e.g. reliability, resource assessment
- Outputs now being deployed in commercial projects
- Integration into local energy systems
- Projects that wouldn't have happened with just national funding
- Engaged SME community
- Regional dimension



Opportunities



- Scope to support array design, scaling up in future calls, as well as continued device development
- Cooperation with other offshore renewables
- Integration into energy systems
- Key role of ocean energy in balancing grid
- Niche markets
- Supply chain



Asked the audience.....

1. Ocean energy specific challenges
2. Offshore energy challenges – synergies with offshore wind, floating solar etc.
3. Integration in local / regional / wider energy systems
4. Cross cutting issues e.g. environmental impact, social acceptance, policy context

All were supported, even spread between 1,2 and 3