

The ORECCA European Offshore Renewable Energy Roadmap

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Structure of Presentation

- Purpose of Roadmaps
- Ocean and Wind Energy Existing Roadmaps
- → ORECCA Roadmap
 - Vision & Scope
 - Structure & Methodology
 - Roadmap Strands
- Summary and Questions



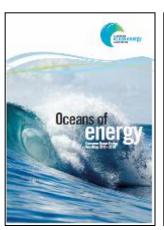
Purpose of Roadmaps



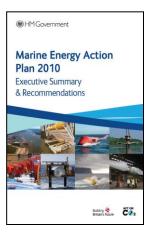
- Long term strategic planning tool
- An effective tool to underpin the identification of policies and measures
- Focus R&D and business investments to accelerate technology development

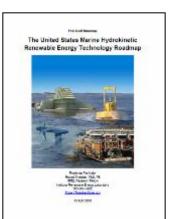
Ocean Energy Roadmaps

- EU-OEA Oceans of Energy
- UKERC Marine Renewable Energy Technology Roadmap
- FREDS MEG Marine Energy Roadmap (Scotland)
- DECC Marine Action Plan (UK)
- Marine Hydrokinetic Renewable Energy Technology Roadmap (USA)





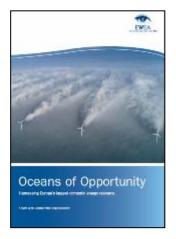




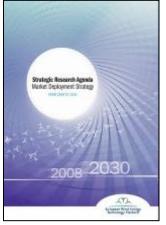


Wind Energy Roadmaps

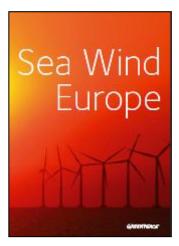
- **EWEA Oceans of Opportunity**
- TP Wind SRA/MDS
- European Wind Initiative Roadmap











Combined Offshore Renewable Energy Roadmaps?

There are none!!

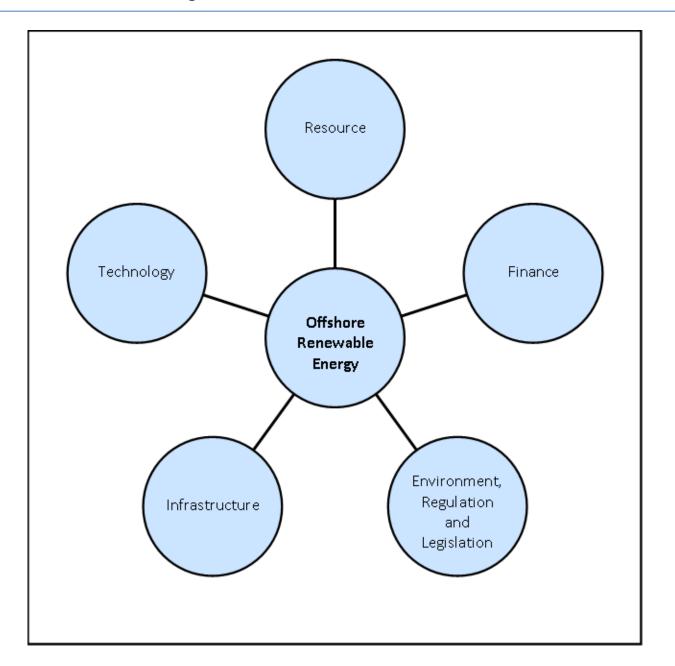
Vision of ORECCA Roadmap

The ORECCA European Offshore Renewable Energy Roadmap aims to support the strategic development of the EU offshore renewable energy sector so that it become a competitive energy source with increased commercial deployments across Europe.

- Scope: Offshore wind, wave and tidal current
- Audience: Finance, SupplyChain, Policy Makers...

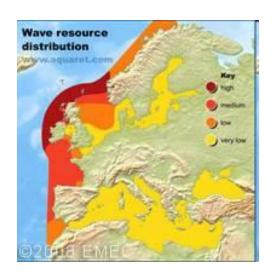


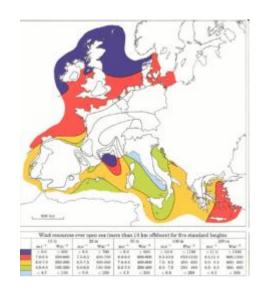
Roadmap Structure and Method



Resource Strand

- → Offshore renewable resource estimates (EU)
- Maps of individual resources and combined resources
 - Including some infrastructure
- Identification of key areas with combined resources







Finance Strand

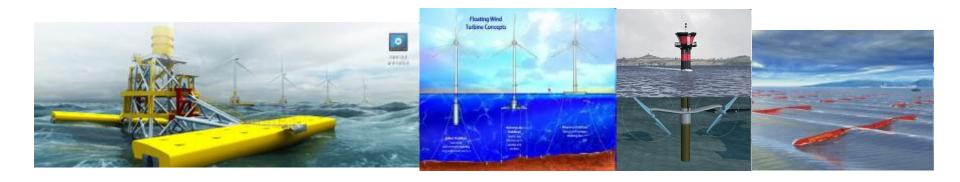
- Funding requirements
- TEXISTING FINANCING and funding support
- Investment opportunities in member countries
- Identification of finance gaps and needs (for technologies and countries)



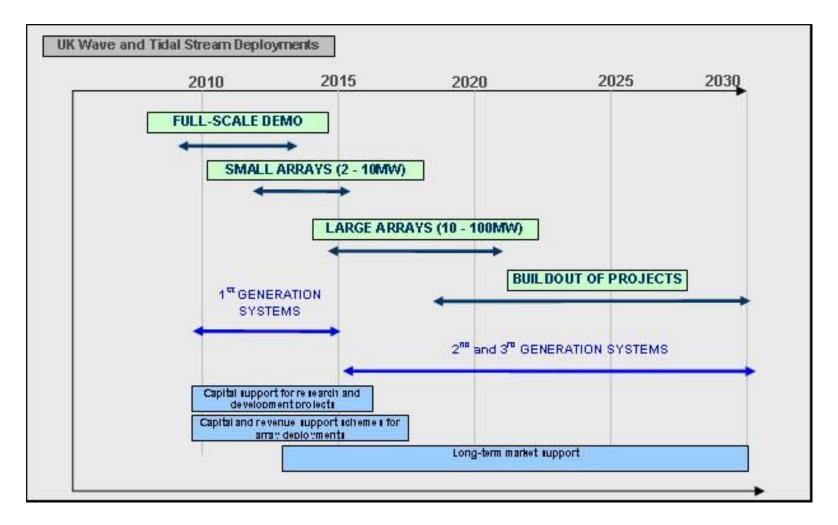


Technology Strand

- Technical state of the art of offshore renewable energy devices
 - Individual
 - Combined
 - Enabling Technologies
- Innovations and synergies in the technologies
- Prioritisation mapping of critical needs for technology development



Example: Deployment Timelines



→ UK Marine Energy Deployment Plan to 2030 (Source: DECC, 2010)

Infrastructure Strand

- Key Infrastructure requirements for offshore renewables
- Y Synergies and commonalities in infrastructure requirements for wind, wave and tidal energy
- Prioritisation of key infrastructure needs



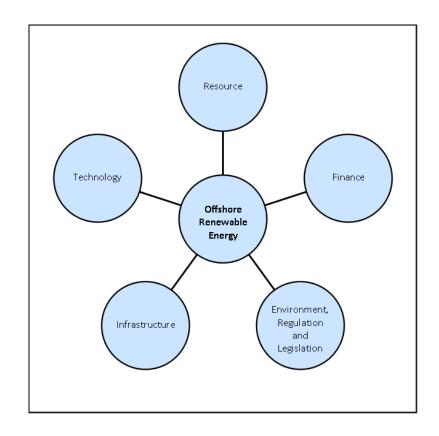
Environment, Regulation and Legislation Strand

- Key environmental issues arising from offshore renewable energy deployment
- Commonalities between key environmental impacts and possible mitigation measures used across EU
- Key regulations (existing and needed)
- Key legislation (existing and needed)



Summary

- Pan-European, Pan-Technology Offshore Renewable Energy Roadmap
- Roadmap builds on five key strands
- Developed based on inputs from ORECCA work packages as well as connections with MARINA and other relevant initiatives.



Thank you!

Thanks for listening Any questions?



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