

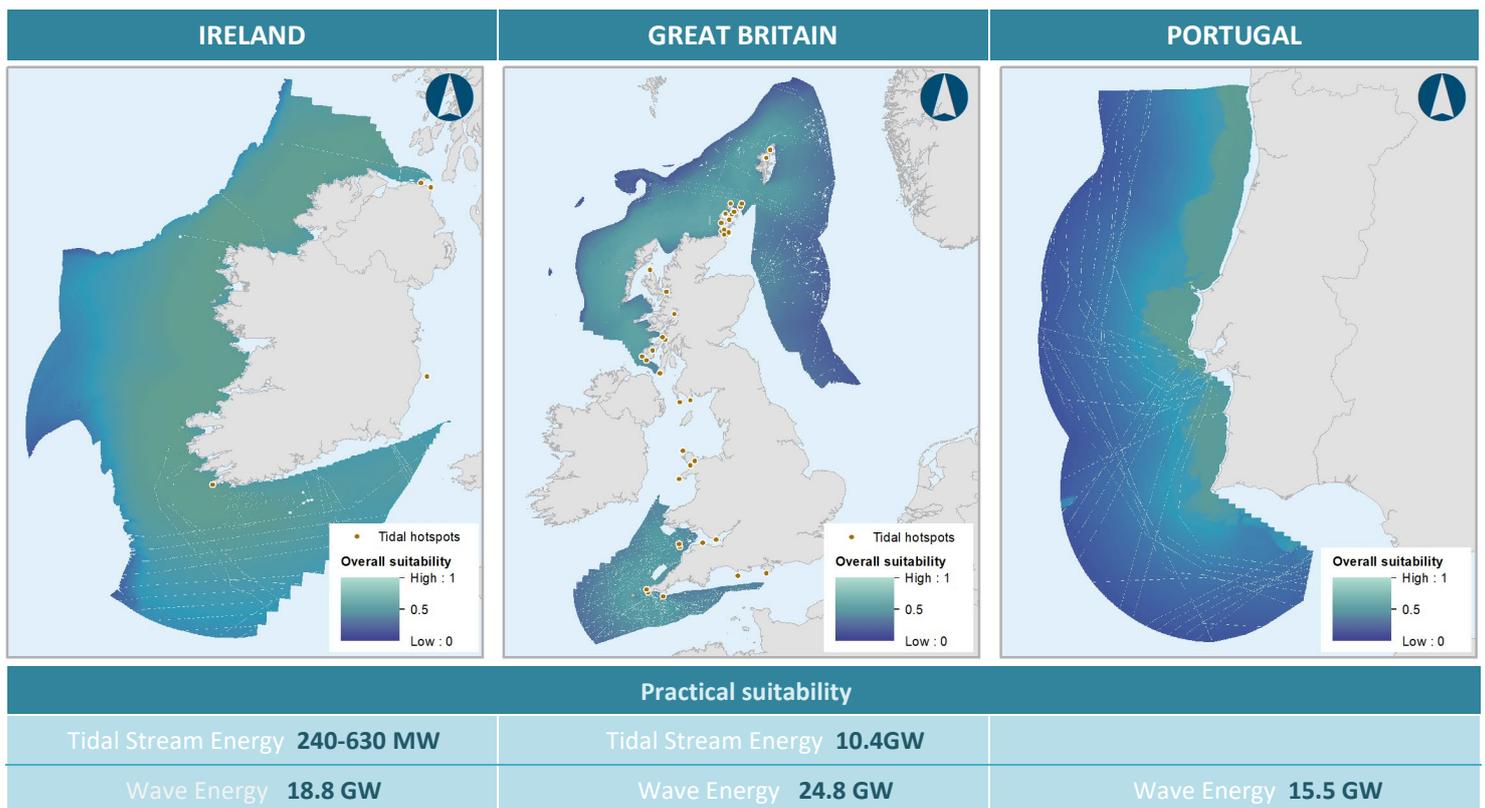


*Can ocean energy (wave and tidal) make an effective contribution to European energy systems and markets, with particular reference to where, what, when, how, and at what price?*

EVOLVE is a transnational partnership between research institutions, technology developers and industry organisations, funded by the OCEANERA-NET COFUND project, and dedicated to building an evidence base for ocean energy as part of a diverse energy system. The project has quantified the benefits associated with integrating ocean energy in low carbon energy systems across Europe.

### A REVIEW OF PRACTICAL DEPLOYMENT LOCATIONS FOR EUROPEAN OCEAN ENERGY PROJECTS

- The EVOLVE spatial modelling study focused on three regions: Great Britain, Ireland and Portugal, identifying close to 60GW of practically viable wave energy and 10GW of tidal stream energy. More specifically, results show resources of 34.8GW in Great Britain, 18.8GW in Ireland and 15.5GW in Portugal.
- Aquatera’s RADMApp GIS modelling tool was used to identify suitable areas for the deployment of wave and tidal stream devices, with scoring criteria applied over four layers: technical, cost, environmental and other sea users. The final results are based on a multiplicative combination strategy of these layers to produce an overall suitability score.
- For tidal stream energy devices, areas of suitability have been found at specific points around the British coastline and around Rathlin Island in Northern Ireland.
- For wave energy devices, results reveal that northern and western Scottish waters, southwest England and Wales, the west of Ireland and around Lisbon and the northwest of Portugal have the highest suitability.



More detailed technical notes available at <https://evolveenergy.eu/project-outputs>

