

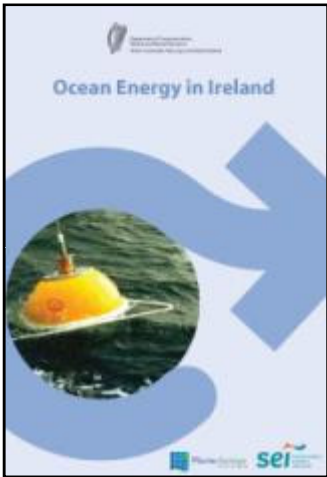
What's required to develop marine renewables in Ireland?

- Clear long-term strategy to develop the sector
- Clear licensing and consenting arrangements
- Economically viable and timely access to grid
- Commercially-proven technology
- Strong R&D and test facilities to support the sector
- Appropriate financial incentives to stimulate the market



Ireland's Ocean Energy Strategy

Support Pilot projects, new concepts



Full scale demonstrators

Small-scale arrays 10MW/20 devices

Commercial Arrays of 100s MW

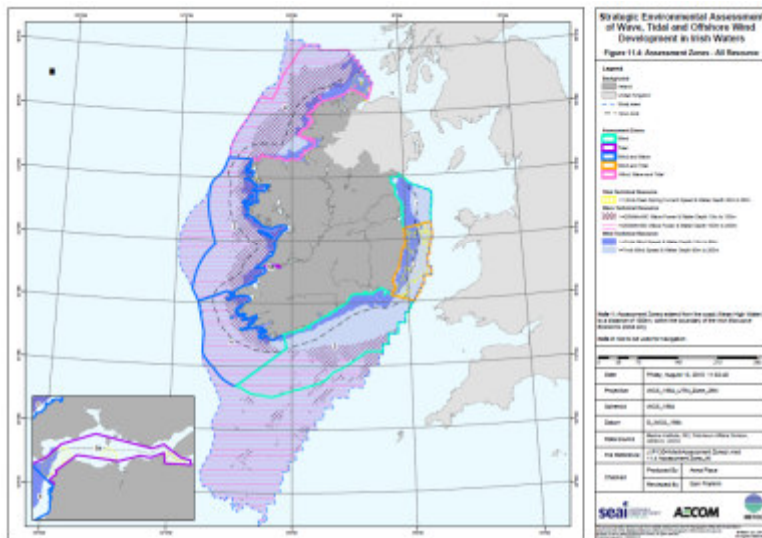


Government Target



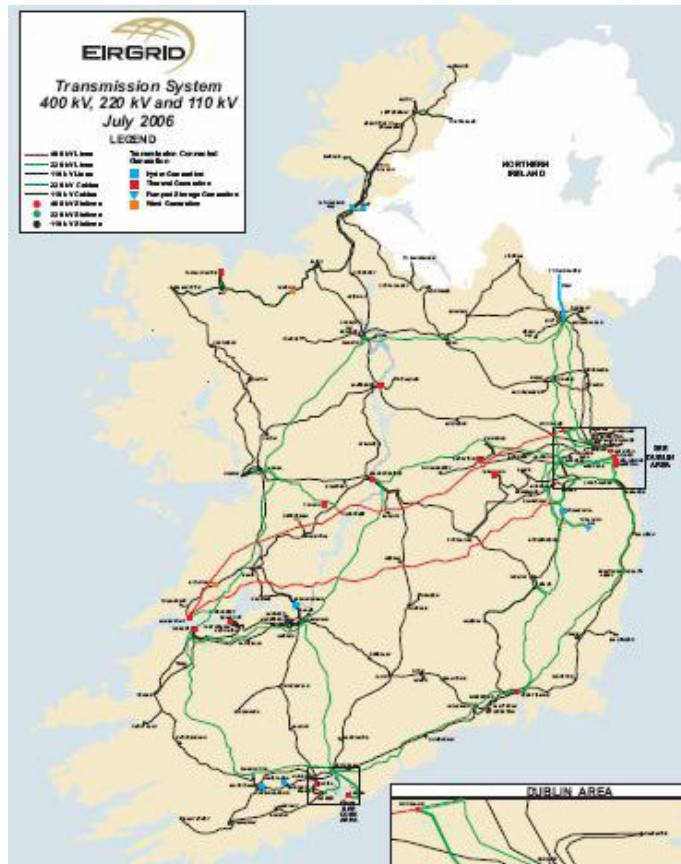
500MW installed

Licensing and Consenting



- Welcome work by DEHLG to implement new Foreshore Licensing Process
- Strategic Environmental Assessment and OREDP in consultation phase
- Need a Marine Leasing Round in Rol

Access to Grid



- Grid Access is a key issue for marine projects
- Notional allocation for 500MW of ocean energy under Grid25 however most of this capacity will be used by Gate3 projects
- Need 'plan-led' approach to facilitate access to grid for initial marine renewable projects
- Pre-feasibility grid study at Initial Development Zones to be undertaken by Eirgrid (supported by SEAI)

Commercialising the Technology

- Technology is developing
- Funding is a key challenge facing technology developers
- Need for technology companies to co-operate to create better technology
- Systems integrators/engineering companies are getting involved in order to provide technical and financial



Ireland's 1st Wave Farm by 2015



- Project to develop the first wave energy farm in Ireland with NER300 support
- Project could be one of the first wave farm array in the world in 2015
- Project consortium led by ESBI and includes four leading technology developers
- Extensive engagement on project – strong support from industry



Project Partners



Benefits to Ireland

- Deliver Phase 3 of Ocean Energy Strategy
- Leverage significant EU funding to match domestic funding
- Develop the supply-chain required to support the sector
- Pave the way for commercial scale development



Progress

- MOU signed with four leading wave developers
- Site selection completed
- Initial technical and economic evaluations completed
- Grid feasibility studies underway with ESB Networks



Summary

- Marine renewables are a significant opportunity for Ireland
- A plan led approach is needed to drive marine renewables over next 3-5 years
- Opportunity to develop the first wave energy project in Ireland
- ESBI commitment to WestWave project
- Strong support from technology developers and industry stakeholders
- Project will be a flag-ship project for Ireland in 2015