

MRIA OCEAN ENERGY INDUSTRY FORUM



SNAPSHOT: OFFSHORE WIND IRELAND

BRIAN BRITTON, NOW IRELAND

12TH FEBRUARY 2016

STATUS OF OFFSHORE PROJECTS UNDER DEVELOPMENT IN IRISH WATERS

- **Oriel Windfarm (2021)**
*Consent for 55 turbines East of Dundalk Bay. 330MW. **CONSENTED & GRID OFFER***
- **Dublin Array (2022)**
Application for 145 turbines on the Bray and Kish Banks. 725MW.
- **Codling Wind Park (2021/2022)**
*Lease for 220 turbines on the Codling Bank. Application for a further 200 turbines. 1100MW. **CONSENTED & GRID CONTRACTED to WALES.***
- **SSE Renewables (TBC)**
*Lease for 200 turbines on the Arklow Bank. 525MW. **CONSENTED***
- **Irish Waters Total: 2680MW**



IRISH OFFSHORE WIND DEVELOPMENT IS INEVITABLE - WHEN?

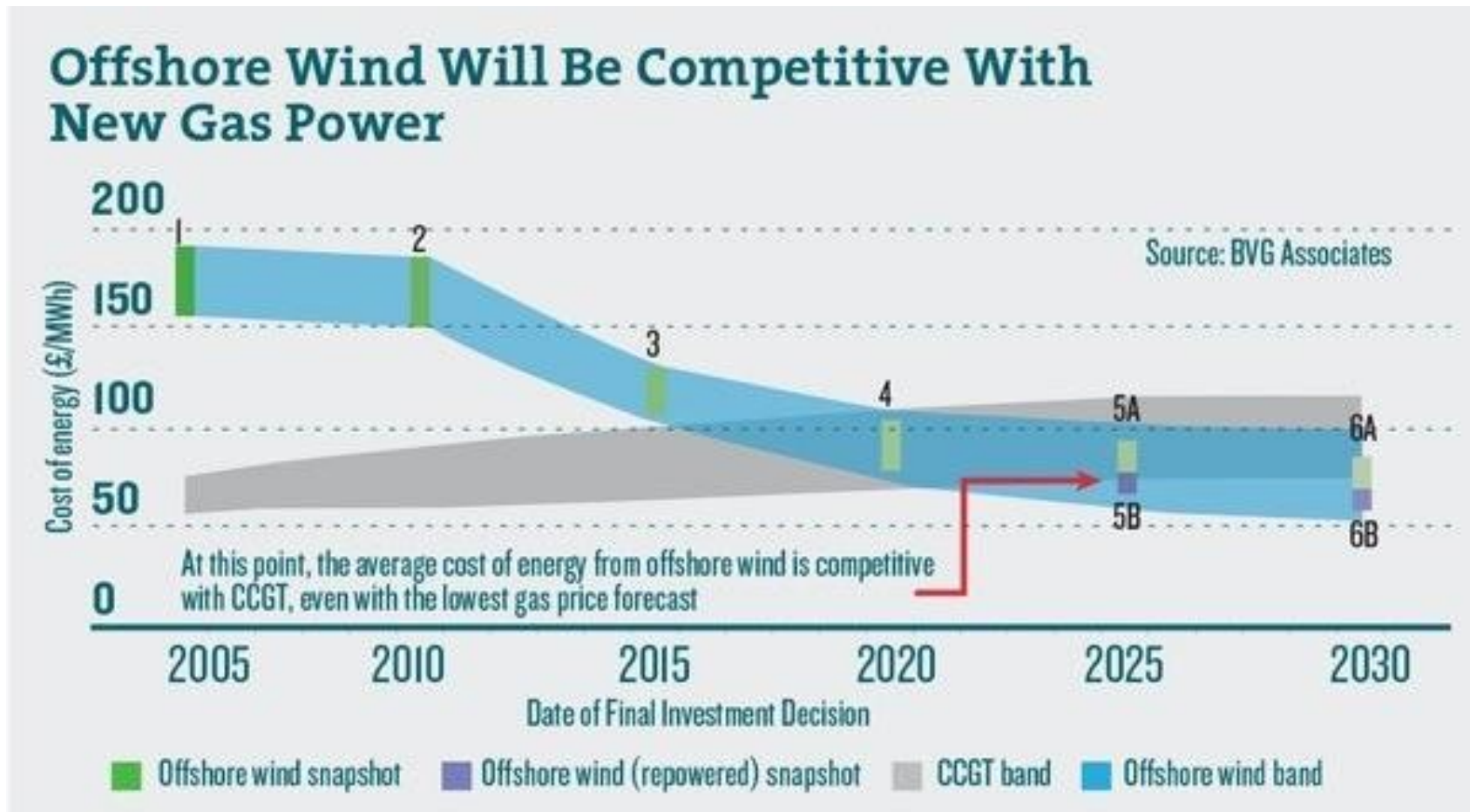
PHYSICAL FUNDAMENTALS

- **High Capacity Factor**
 - **Mid 40s**
- **Close to Shore**
 - **Low O&M**
- **Shallow Water**
 - **Up to 30m Water Depth**
- **Seabed Sediment Conditions**
 - **Glacial Till**
- **Low Tidal Streams**
 - **Shelter High Wave Loads**

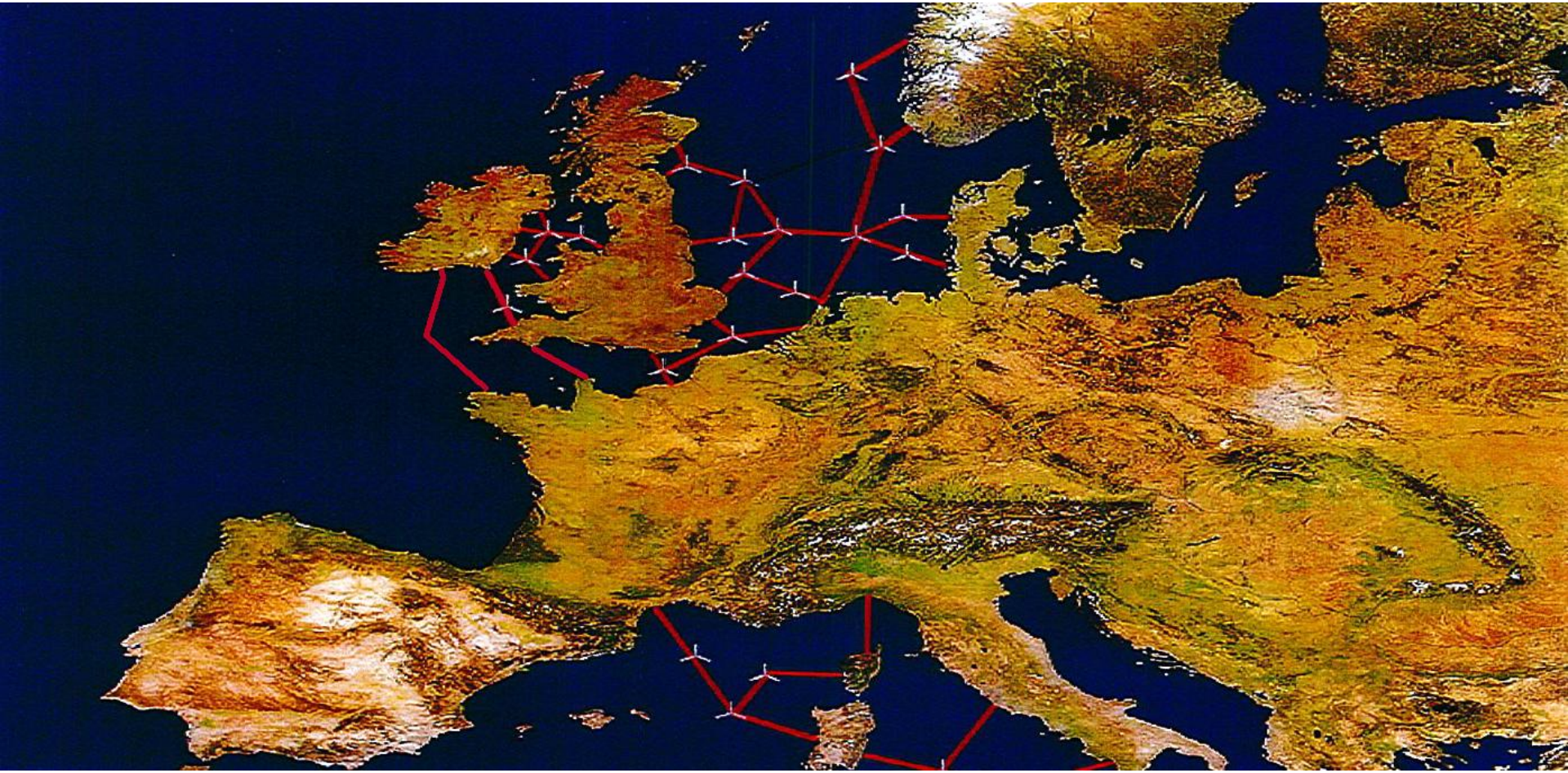
POLICY

- **OREDP/SEA Completed**
- **2.68MW Consented / Pending**
- **New Foreshore Act Imminent**
- **Close to UK Market / FUI**
- **EU Energy Union Priority**
- **EU Pressure on Ireland**

OFFSHORE WIND WILL BE COMPETITIVE WITH NEW GAS POWER



Ireland – UK – Europe – A Route to Export Markets



OFFSHORE WIND INITIATIVES

- 1. Ongoing lobby with EU Commission and Governments/Policy Makers in France, UK, Netherlands, Belgium and Ireland**
- 2. Ongoing Tier 1 and Industry liaison. Offshore Industry can shape the way the industry evolves in Ireland, as the new dynamic in the offshore market develops.**
- 3. Advising Irish Government and policymakers of the serious cost reduction program being implemented ref offshore wind through technology improvements. Target to be under 10c per KW/Hr by 2020**
- 4. MOU May 2015 between OWL and Gaelectric in relation to the North Irish Sea Array (the "NISA Project") seeking to spark Irish offshore through a Demonstration Project.**
- 5. NSCOGI(Northern Seas Countries offshore Grid Initiative) with NOW Ireland hosting event in Spring 2016 working in parallel with Netherlands hosting of the EU Presidency during first half of 2016.**
- 6. Greenlink and ISLES achieving PCI (Project of Common Interest).**
- 7. Coordination of those with offshore and grid interests in the Irish Sea moving forward (unlike Midlands onshore debacle).**
- 8. FISGA (France Irish Sea Green Array) proposal and actions.**

IRELAND'S SHORT TERM PROBLEM – OFFSHORE WIND OPPORTUNITY?

- **Higher renewables production from wind expected to be necessary due to:-**
 1. Ireland won't meet 2020 targets for heat and transport
 2. Economic improvement increasing need for higher renewables production. Forecasts were based on 1.7%. Currently it's 6.8% with expectation of over 7% per annum.
 3. Planning issues impacting onshore wind investment, i.e. Rates, Planning Guidelines, O Grianna, etc.
 4. Circa 1600MW of data centres looking to connect into Ireland.
- **EU pressure on Ireland in relation to methane gas emission issue, Ireland being worse culprit of 28 member states. Increased renewables development being proposed by EU as quid pro quo to Ireland to protect its agri food sector.**
- **EU getting tough on Member States who don't meet RE targets, heavy fines.**
- **RISK: If Ireland doesn't meet its 2020 targets, offshore wind gets hit with double whammy after export only decision January 2012 – not allowed to export**
- **Backstop for Government would be to fall back on Irish offshore wind and reverse 2012 decision.**
- **By 2017/2018 Irish offshore re-evaluation, takeout and realisation.**
 1. Post EU pressure when negotiating 2030 targets/agri emissions
 2. FDI pressure in considering Ireland as a renewable green country in which to invest/risk of missing 2020 targets
 3. Government will be forced into a re-evaluation of Irish offshore.
- **To everybody involved in Marine Renewables – Believe!**