

Job Opportunity and the Supply Chain Perspective



Presentation to EUFORES

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The EU Economy





Deployment of Offshore Turbines



TOTAL CUMULATIVE OFFSHORE TURBINES, WIND FARMS AND MW INSTALLED BY END 2012

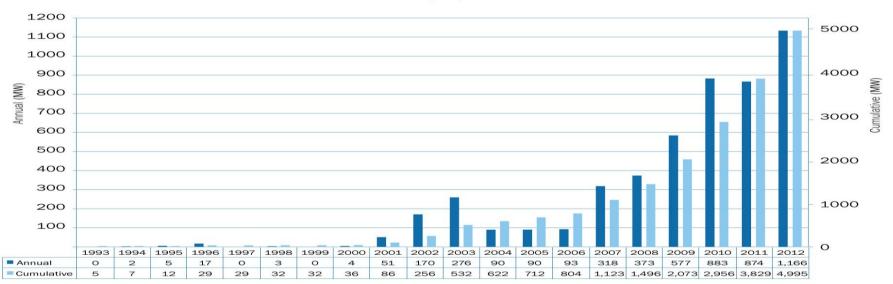
Country	UK	DK	BE	DE	NL	SE	FI	IE	NO	PT	Total
No. of farms	20	12	2	6	4	6	2	1	1	1	55
No. of turbines	870	416	91	68	124	75	9	7	1	1	1,662
Capacity installed (MW)	2,947.9	921	379.5	280.3	246.8	163.7	26.3	25.2	2.3	2	4,995

Source: EWEA

We Have Lift Off!



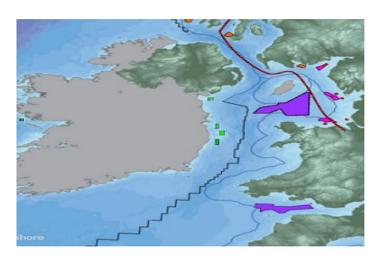




Source: EWEA

Export Opportunity - Supply Chain €60bn





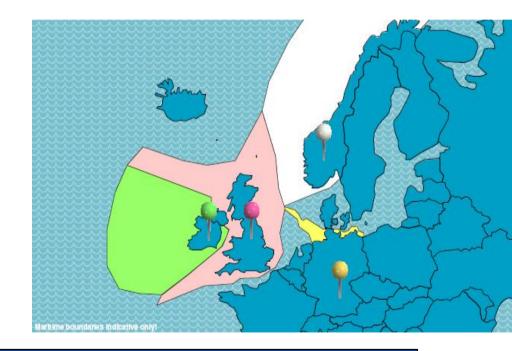
The biggest supply chain market for offshore wind in the world is on our backdoor in the Irish Sea Zone, a supply chain opportunity of over €60bn.

	Location/Name	Status	Capacity MW's	No. of Turbines	Developer
Rot	und 1		660	•	
1	North Hoyle	Operating (Dec 2003)	60	30	RWE-npower renewables
2	Barrow	Operating (Sept 2006)	90	30	Centrica/DONG Energy
3	Rhyl Flats	Operating (Dec 2009)	90	25	RWE-npower renewables
4	Burbo Bank	Operational (Oct 2007)	90	25	DONG Energy
5	Ormonde	Approved	150	30	Vattenfall
6	Robin Rigg	Under Construction	180	60	E.ON UK Renewables
Rot	and 2	<u>'</u>	1620		
7	Walney	Construction 2010-2012	370	102	DONG Energy
8	Gwynt y Mor	Approved	750	250	RWE-npower renewables
9	West Duddon	Approved	500	139	ScottishPower / DONG Energy
Rοι	ınd 1&2 Extensions	•	984	•	
10	Burbo Bank	Pre application investigations	234	65	DONG Energy
11	Walney	Pre application investigations	750	150	DONG Energy
Rot	and 3		5500		
12	Irish Sea Zone	Pre application investigations	4000	800	Centrica/RES Group
13	Bristol Channel	Pre application investigations	1500	300	RWE-Npower Renewables
Νe	stern Scottish Territoria	al Waters	3138		
14	Solway Firth	Pre application investigations	300	60	E.ON Renewables UK
15	Wigtown Bay	Pre application investigations	280	56	Dong Wind (UK) Ltd
16	Kintyre	Pre application investigations	378	76	SSE Renewables
17	Islay	Pre application investigations	680	136	SSE Renewables
18	Argyll Array	Pre application investigations	1500	300	Scottish Power Renewables
NI T	Territorial Waters 600 to	900 MW expected to be developed	on completion of	SEA	
19	TBC	TBC	750	150	TBC
ris	h Territorial Waters		2680		
20	Oriel Windfarm	Approval Pending - Gate 3	330	55	Oriel Windfarm
21	Dublin Array	Application submitted - Gate 3	725	175	Saorgus Energy
22	Codling Wind Park 1	Approved - non Gate 3	1100	220	Fred Olsen /Treasury Holding
23	Arklow Bank	Approved - non Gate 3	525	200	SSE Renewables
ur	ther Irish sea Capacity		4000	800	TBC
	h Sea totals		19,368 MW	4200 turbines	Circa €60bn



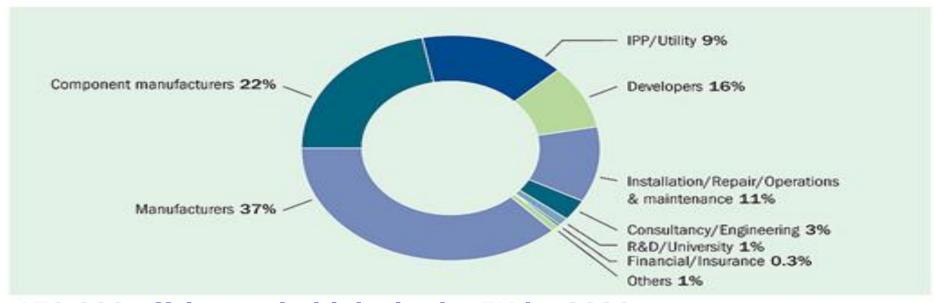
Offshore Resources in Irish Waters

- Ireland potentially has the best offshore wind resource in the world.
- Ireland has 10 times its land mass in territorial waters.
- 2680 MW in planning. A further 5000 MW feasible within Irish Sea Zone, including 600MW in Northern Irish Waters
- The potential in Atlantic Waters off the South and West is unlimited when turbine technology develops, i.e. Floating turbines, co-location.



Job Opportunities – EWEA Predictions





170,000 offshore wind jobs in the EU by 2020 300,000 offshore wind jobs in the EU by 2030

Elements of the Supply Chain













Belfast Port







The Challenges Ahead

- Certainty, Certainty, Certainty
- Bringing down the cost of the supply chain
- Implications of back loading of development







The (r) Evolution of European Energy





Co – operation is Key





Delivering on our Opportunity

- Working together A Win Win.
- Look beyond our shores for the opportunity which exists
- Ensure our European and National policies support our industry objectives.
- Be the leaders of the change Europe wants and needs







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