























Installed CapacityPlanned CapacityInitial DevelopmentMarketDenmark426 MW415 MW2001-20032009-2Germany6 MW1,076 MW2008-20092009-2The Netherlands13.4 MW228 MW2004-20052010+The UK304 MW2,471 MW2003-20072008-2• Each POWER country is at a different stage in offshore wind develop	P-O-W-E-R Finding Window Wind Serry Harter
Denmark         426 MW         415 MW         2001-2003         2009-2           Germany         6 MW         1,076 MW         2008-2009         2009-2           The Netherlands         13.4 MW         228 MW         2004-2005         2010+           The UK         304 MW         2,471 MW         2003-2007         2008-2           • Each POWER country is at a different stage in offshore wind develop         Power and the stage in offshore wind develop         Power and the stage in offshore wind develop	t Growth
Germany         6 MW         1,076 MW         2008-2009         2009-2           The Netherlands         13.4 MW         228 MW         2004-2005         2010+           The UK         304 MW         2,471 MW         2003-2007         2008-2           • Each POWER country is at a different stage in offshore wind develop	2010+
The Netherlands         13.4 MW         228 MW         2004-2005         2010+           The UK         304 MW         2,471 MW         2003-2007         2008-2           • Each POWER country is at a different stage in offshore wind develop	2010+
The UK         304 MW         2,471 MW         2003-2007         2008-2           • Each POWER country is at a different stage in offshore wind develop	
• Each POWER country is at a different stage in offshore wind develop	2010+
<ul> <li>First activity: DK &gt; NL &gt; UK &gt; DE</li> <li>Current capacity: DK &gt; UK &gt; NL &gt; DE</li> <li>2010 capacity: UK &gt; DE ≥ DK &gt; NL</li> </ul>	oment





















Pushing Offshor	e Wind E	Energy	Regions	(POWE	R)			
Attributes	Emshaven (NL)	Emden (DE)	Wilhelmshave n (DE)	Brake (DE)	Bremerhave n (DE)	Cuxhaven (DE)	Bruns- büttel (DE)	Esbjerg (DK)
Water depth at the quayside and the connection to sea - 5-10m (at low water)								
In case of locks, dimensions (width between fenders) 25-40m	n/a			n/a		n/a	n/a	n/a
Available dedicated berth >300 m				Dedicate d to general cargo			Dedicated to general cargo	
Operation area at quayside available for assembling/ handling:				·				
•turbines & transformers								
•foundations monopile								
•cables								
Own heavy lift crane and ground equipment	Spe	ecial solutions	necessary, rental	equipment is	available, but de	pends on mark	et constraints	ं
Available port operator with offshore focus								
Management and staff with wind energy experience								-



nogional o	Regional Strengths & Weaknesses						
Country & Region	Key Strengths	Key Weaknesses					
Denmark	Turbine manufacturing     Established wind supply chain     Early experience in offshore wind     O&G skills/experience     Key industry players	Few suitable ports     Lack of offshore projects planned     Long-term prospects uncertain					
Germany Schleswg-Holstein & Bremen/Niedersachen	Turbine manufacturing     Established wind supply chain     Good long-term market prospects	No projects yet     Offshore Germany technologically     difficult     Highly dependent on next-generation     turbines     Lacks offshore 'leaders'					
<b>Fhe Netherlands</b> Kop van Noord-Holland	Good ports     Manufacturing capability of support structures and turbine components     O&G skills/experience	Uncertain market conditions					
The United Kingdom East of England	High growth market     Long-term market prospects     O&G skills/experience     Proven O&M capability     Support mechanisms in place	Very limited manufacturing     Use of ports depends on upgrades     Poor local infrastructure					









