

Introduce Delegation

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Energy Delegation leader

"Energy Decisions, with focus on Renewables and Offshore Wind"
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Our mission to Japan

Objective

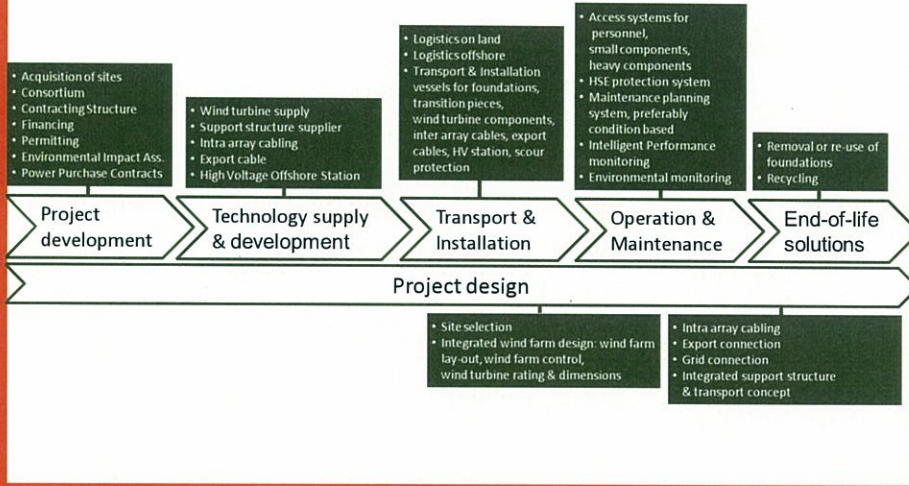
- Identify cooperation opportunities in energy with focus on offshore wind
- Share European / Dutch experience

Mission focal area

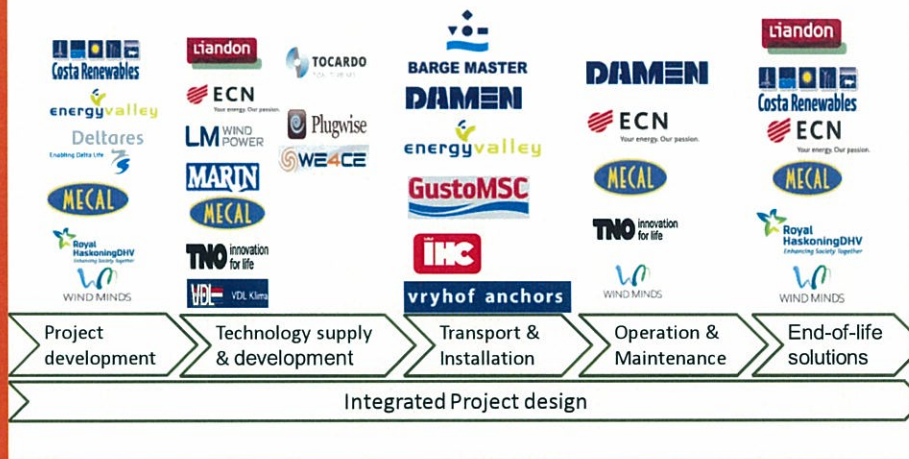
- Offshore wind power technology; all aspects from project development to end of life solutions



Our delegation



Our delegation



Why Netherlands Knowledge and Expertise in Offshore?

The Netherlands has a long history in protecting the land from the sea:

- to keep people safe
- but also for transportation / logistics / new land creation

We have sharpened these skills:

- Offshore Oil and Gas, leader in design / engineering / installation / O&M
- Coastal Engineering and Marine technology, leader in design / engineering / construction
- Offshore Wind Energy; the Netherlands at the cutting edge of design / engineering / installation / O&M



Dutch industry is involved in virtually all European offshore wind farms so far

	Operational	Capacity [MW]	Design and Engineering	Foundations	Turbines + design	Installation	Maintenance	Development & Management	Other
Kentish Flats	2005	90							
OWEZ	2006	108							
Barrow	2006	90							
Lillgrund	2007	110							
Burbo Bank	2007	90							
Prinses Amalia	2008	120							
Inner Dowsing	2009	97							
Lynn	2009	97							
Rhyl Flats	2009	90							
Horns Rev II	2009	209							
Robin Rigg	2009	180							
Gunfleet Sands	2009	173							
Alpha Ventus	2010	60							
Belwind I	2010	165							
Rødsand II	2010	207							



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	Operational	Capacity [MW]	Design & Engineering	Foundation	Turbines + design	Installation	Maintenance	Development & Management	Other
BARD 1		2010	400						
Thanet		2010	300						
Walney I		2010	184						
Greater Gabbard		2010	504						
EnBW Baltic I		2010	630						
Ormonde		2011	150						
Sheringham Shoal		2011	317						
Walney II		2011	184						
London Array		2011	1885						
Thornton Bank II		2012	48						
Anholt		2013	111						
Thornton Bank III		2013	400						
Lincs		2013	270						
Borkum West II		2014	200						



To conclude

- The Netherlands has a strong track record in offshore wind power engineering based on actual experience. Using this experience in conceiving new projects is an important cost saving factor.
- Identifying potential synergies between Japan and The Netherlands could lead to further cost reductions in offshore wind energy.
- Cooperation between Japan and the Netherlands will strengthen the economy in both countries

Thank you very much!

