

Wind Logistics Group

Transport concept for big wind turbines

November 2019 – May 2020

Original project idea title: New shipping concept needed for large new offshore turbines like GE 12 MW

Summary of November 4, 2019 group discussions:

Funnel criteria	Reduce cost, international focus, increase efficiency, reduce risk
Desired outcome	Streamlined process, standard concept, and agreed guideline
Scope	Onshore and offshore wind
Supply chain	Factory to site included (rest not included)
Wind components	Blades/nacelle/hub/towers included Foundation/cables/substation excluded (not believed to change significantly)
Equipment	Lifting equipment and transport equipment included
Assets	Trailers, SPMTs, shortsea vessels, deep sea vessels included
Constraints identified	SPMT and trailer asset shortages Ports and equipment Limited vessel availability shortsea as well as long haul
Methodology	Initial understanding of what a wind turbine will look like 3-5 years later
Skills	The Wind Logistics Group cannot resolve this project idea alone and additional skills and competencies need to be infused (logistics companies, vessel operators, and others)
Things to watch out	Traditional “catch 22” of whether OEMs should issue “requirements specifications” versus providers should innovate: Idea is to get together...

Volunteers:

Speedboat captain	BBC Chartering (Mads Poulsen)
Speedboat crew members	Siemens Gamesa (TBD), NorSea Denmark (Hans Jepsen), LM Wind Power (Anne Håkansson), Head Energy (Anders Frederiksen), MHI Vestas (Lars Harrit), R&D (Søren Kellenberger), Energy Innovation Cluster (Christian Munk Jensen), DIS (TBD)

Notes prepared by Thomas Poulsen, November 14, 2019

Notes reviewed by Anne Håkansson, Mads Poulsen, and Anders Frederiksen, November 18-19, 2019