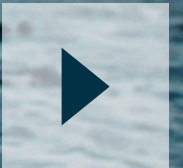
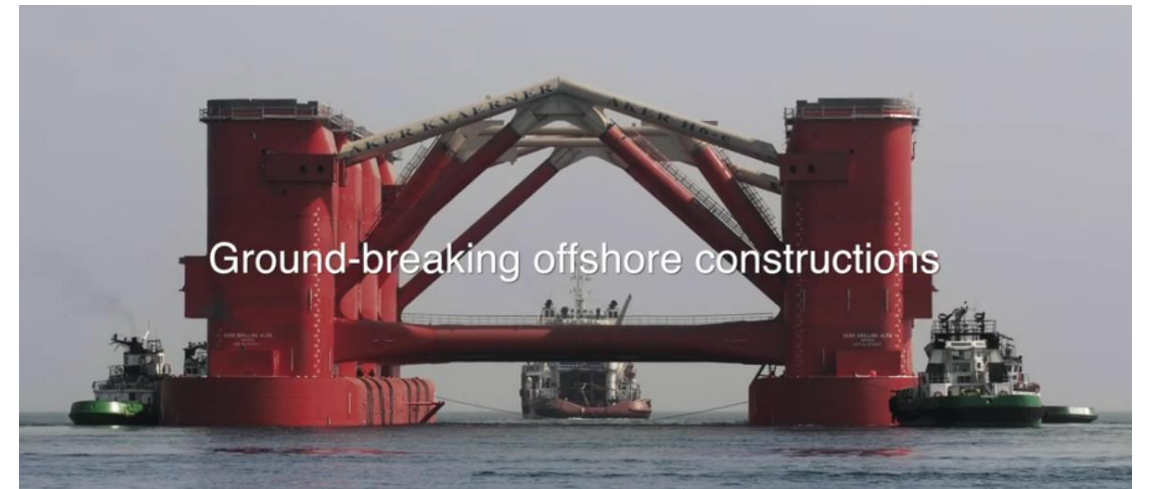


Offshore Wind

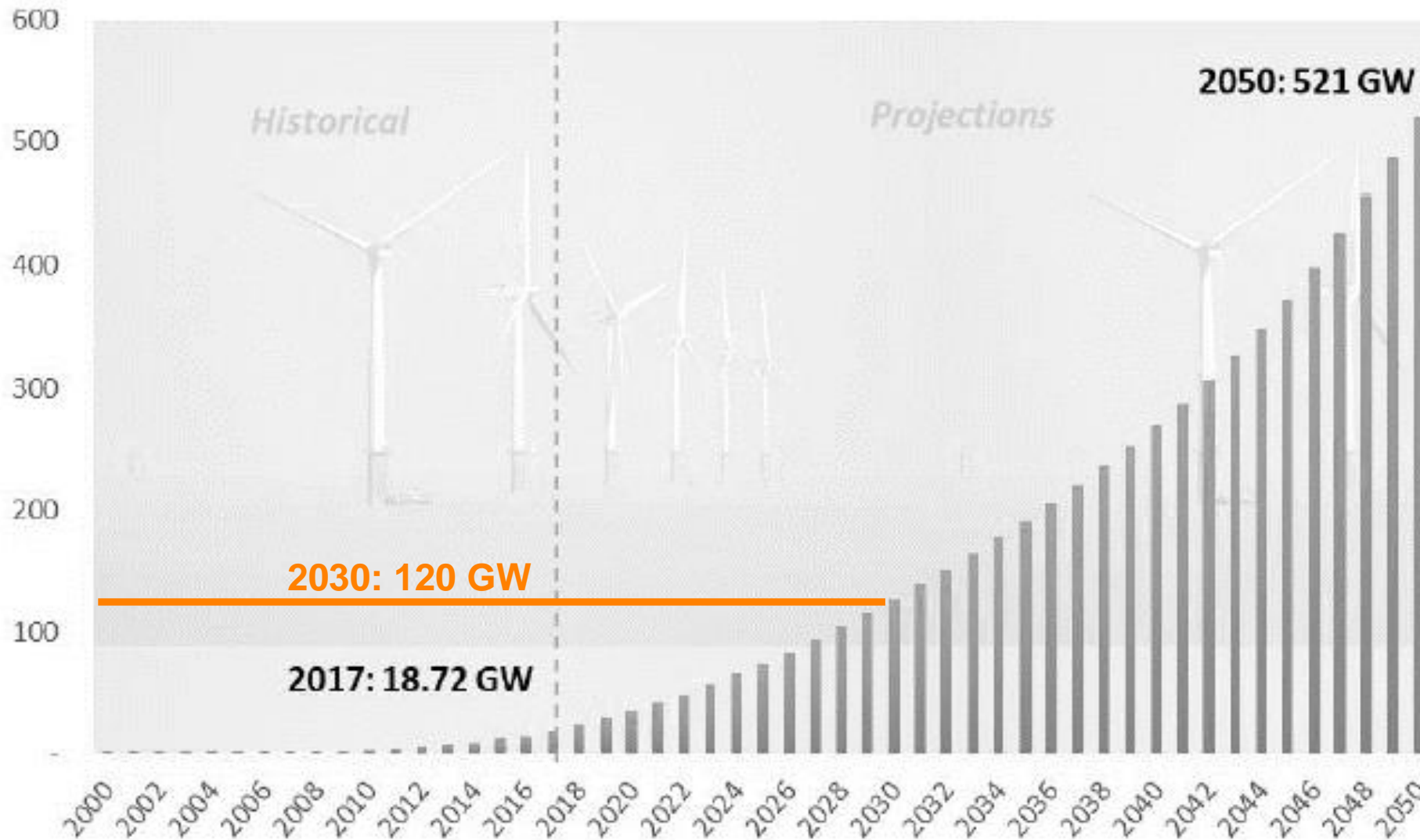
Astrid Skarheim Onsum,
Head of Offshore Wind, Aker Solutions



175 Years of Change

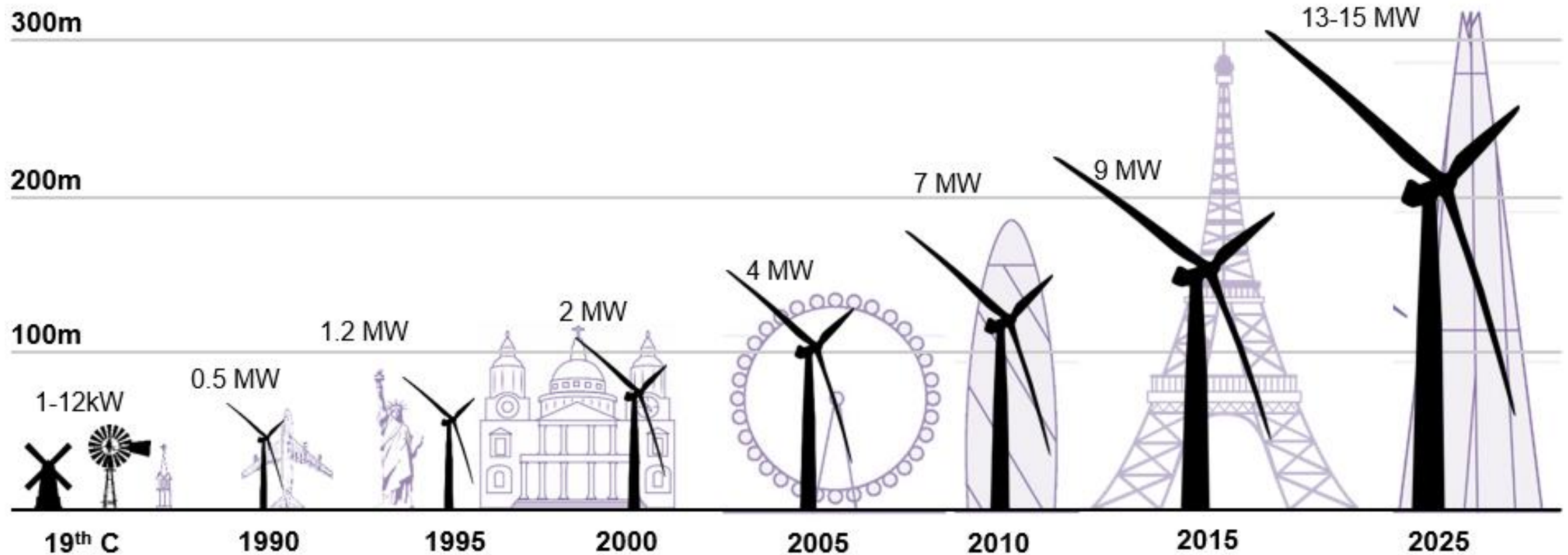


Projected Growth in Offshore Wind



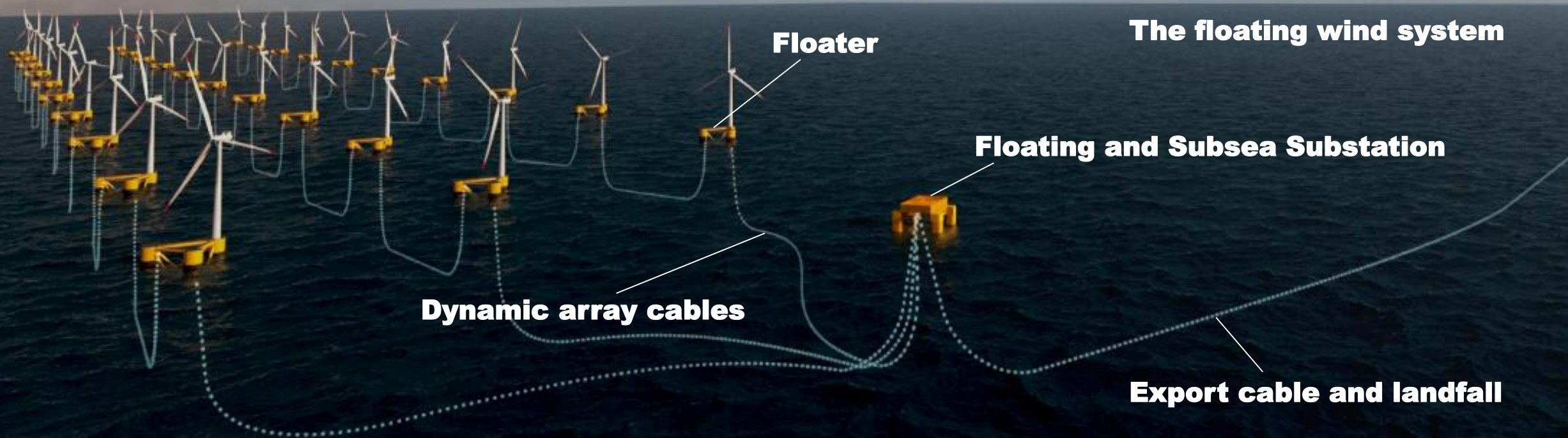
Source: www.IRENA.org

Economy of Scale is Increasing the Turbine Size



Sources: Various; Bloomberg New Energy Finance

Aker Solutions will be a **leading provider** of offshore wind energy solutions



Floating Wind vs. Large Scale Readiness – 12 myths

~~Weight of hulls too high~~

~~Lack Floating sub stations
and dynamic cables~~

~~Advanced tank test
facilities missing~~

~~Simpler installation needed~~

~~Lack of advanced
engineering tools~~

~~Do not understand wake
effects~~

~~Maintenance-at-port
missing~~

~~Lack of Advanced controls~~

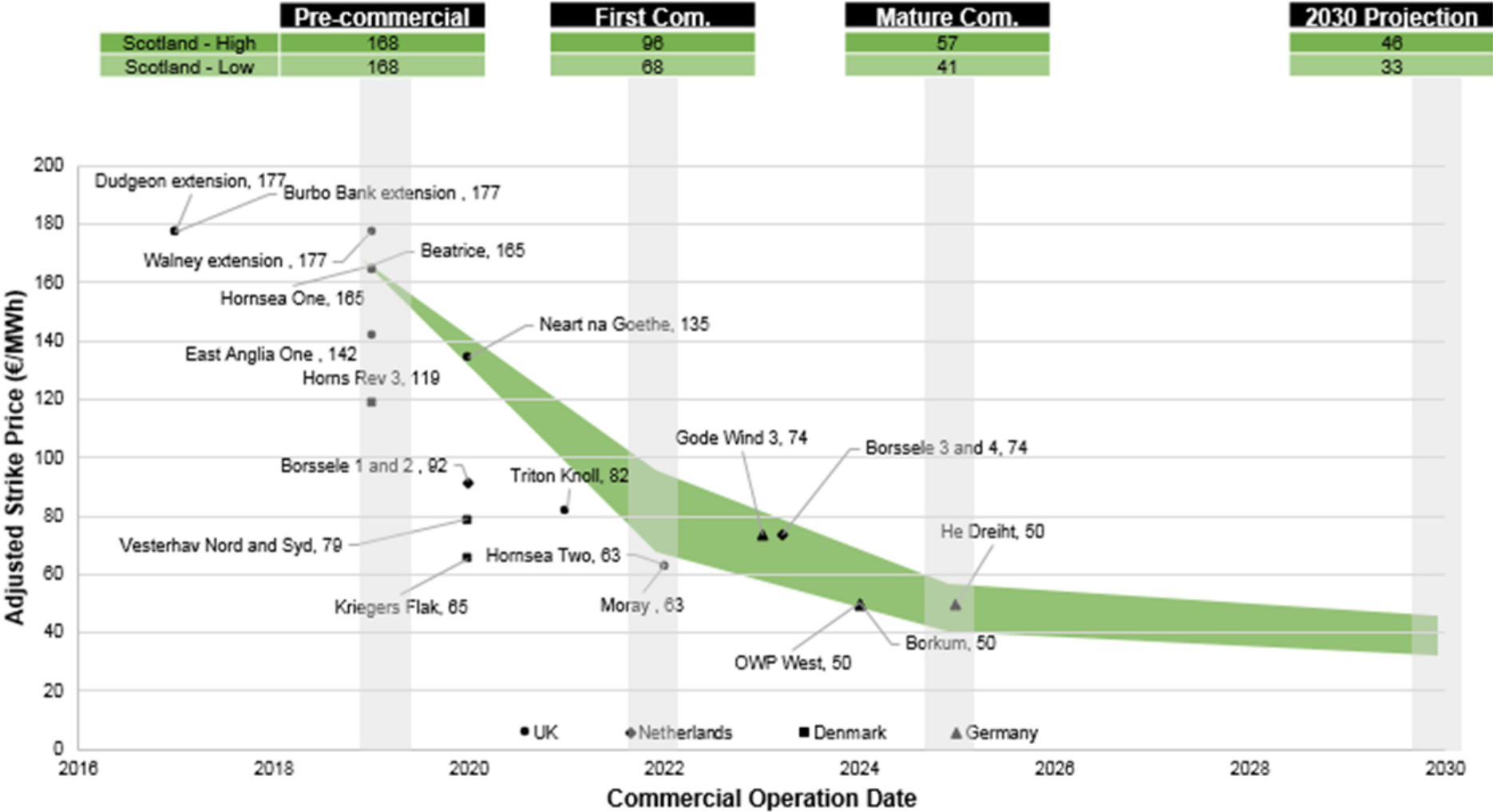
~~Need new industry
standards~~

~~Environment – impact not
documented~~

~~Costly mooring &
anchoring~~

Regulatory requirements
and supply chain missing

Offshore Wind – Falling Cost



Global Potential for Offshore Floating Wind



Redwood Coast Project, Humboldt Bay, California

- April 2018: The Redwood Coast Energy Authority (RCEA) selects consortium of Aker Solutions, Principle Power and EDPR Offshore to enter public-private partnership
- September 2018: Lease application for offshore wind development off coast of Humboldt county submitted to the Bureau of Ocean Energy Management
- 100-150 MW
- Located more than 30 kilometers off the coast of Eureka, CA
- Planned online in 2024



Summer 2018 & 2019

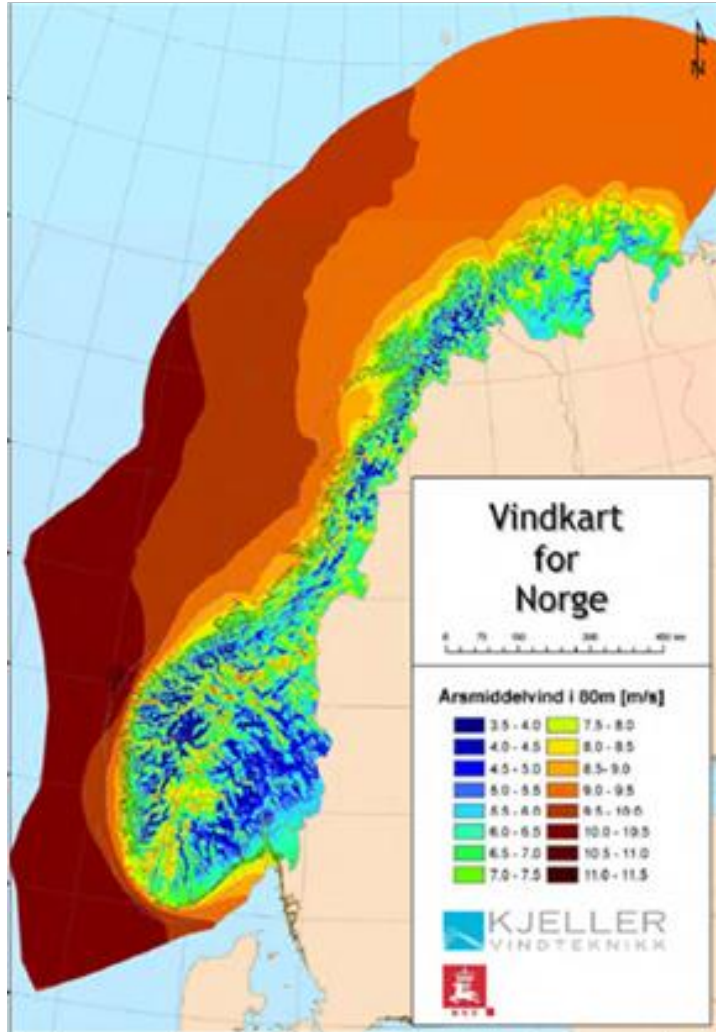


← Kincardine tow-out,
United Kingdom, 2018

WindFloat Atlantic,
3 x 9,5MW
Portugal, 2019 ↓



Norwegian Coast: World's Best Offshore Wind Conditions



Ambitious Neighbours

- UK

Announced **30 GW** of offshore wind by 2030

- Denmark

Announced **12.4 GW** of offshore wind by 2030

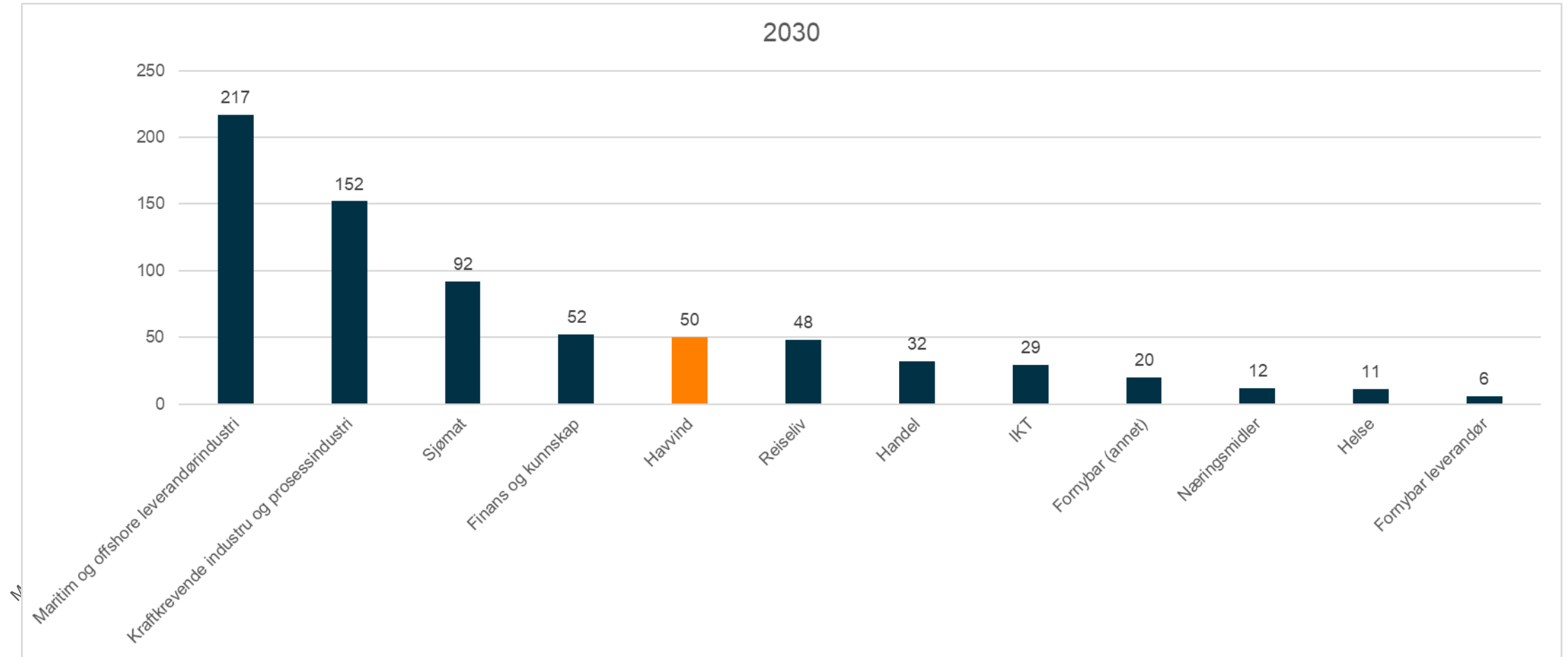
- Norway?



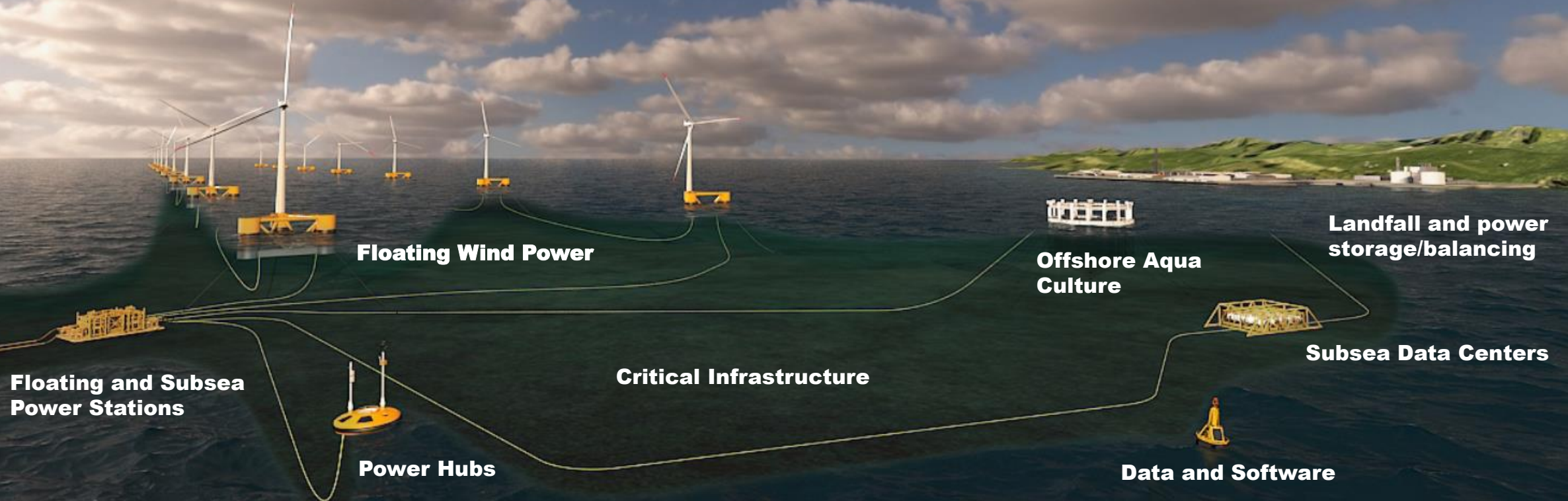
Havvind - en ny topp 5 eksportindustri?



Havvind - en ny topp 5 eksportindustri?



New Era of **Ocean Economy** Opportunities



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