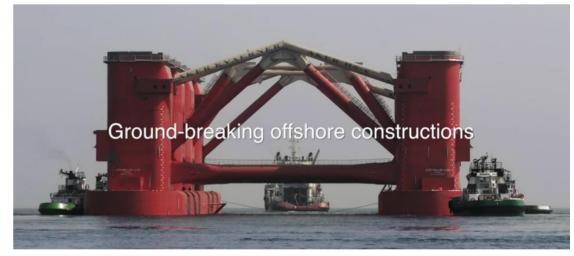


# 175 Years of Change





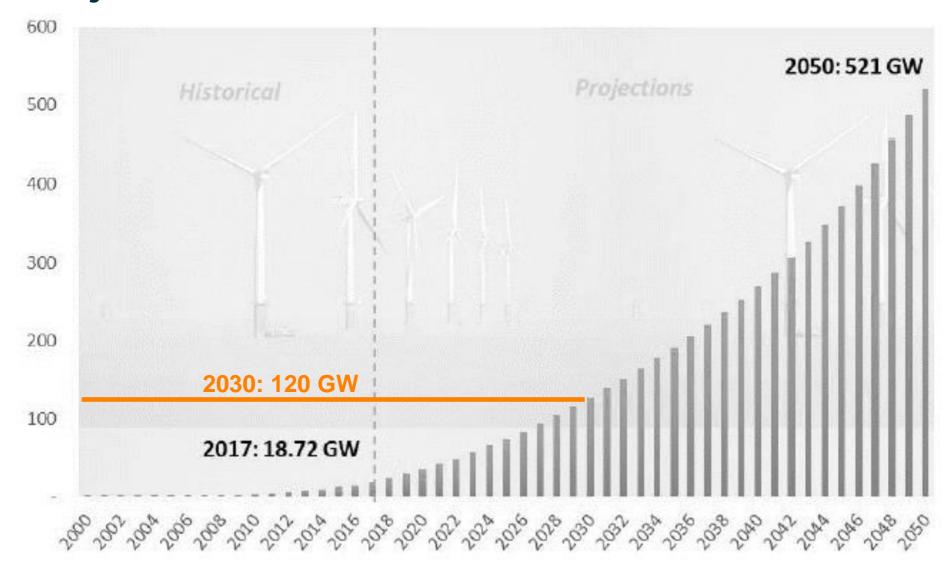






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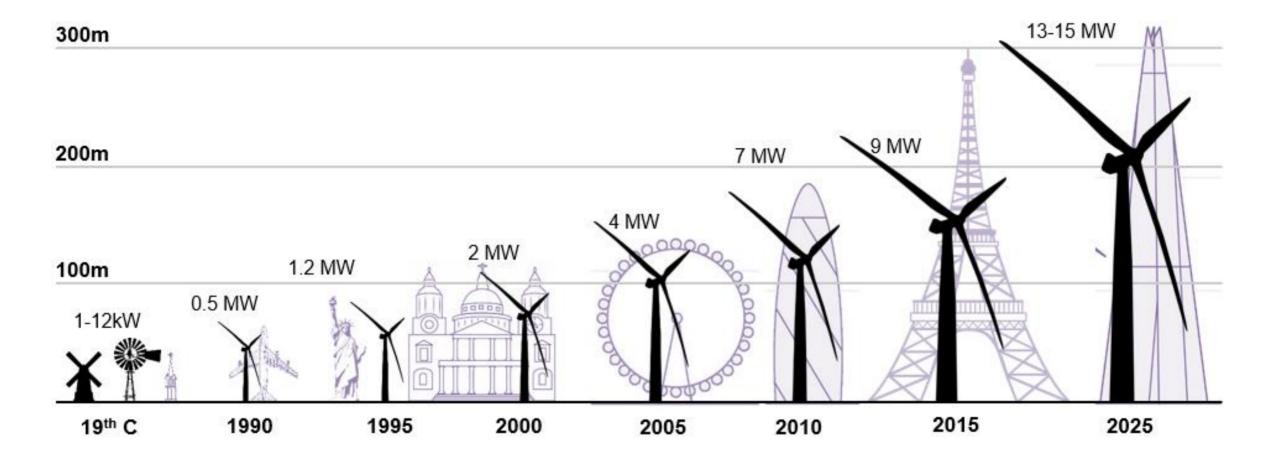
# **Projected Growth in Offshore Wind**



Source: www.IRENA.org

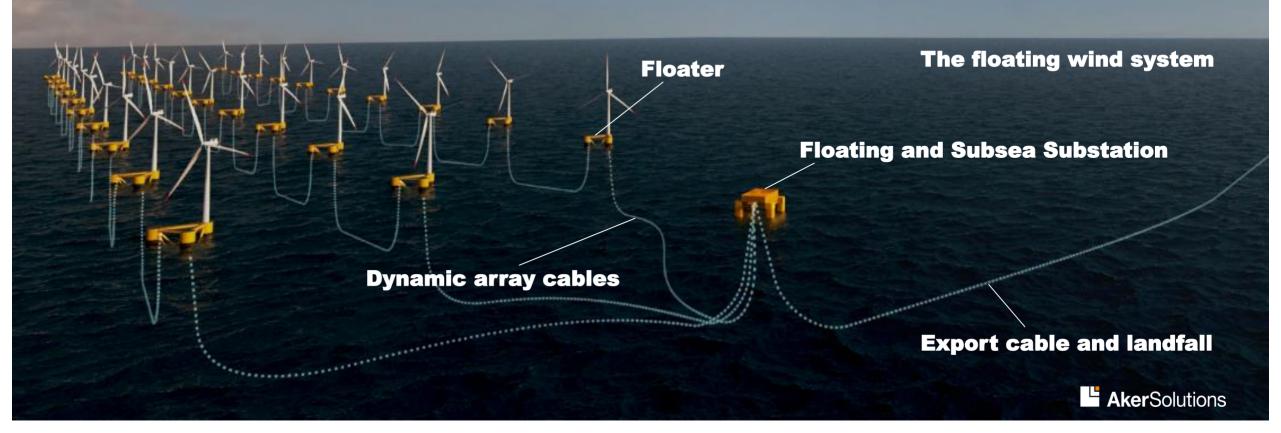


# **Economy of Scale is Increasing the Turbine Size**



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** 

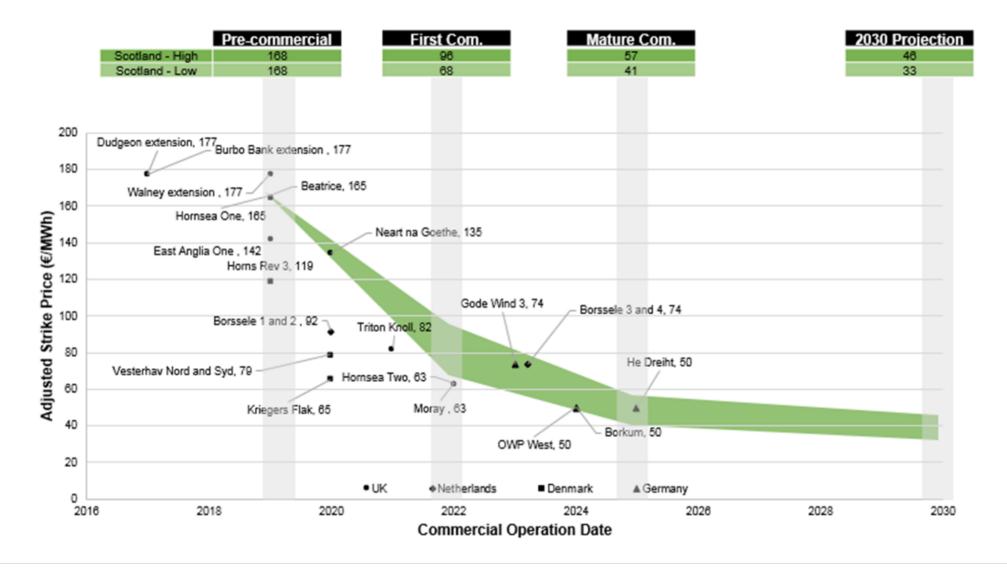
Need new industry standards

Environment - impact not documented

Costly mooring & anchoring

Regulatory requirements and supply chain missing

# **Offshore Wind – Falling Cost**





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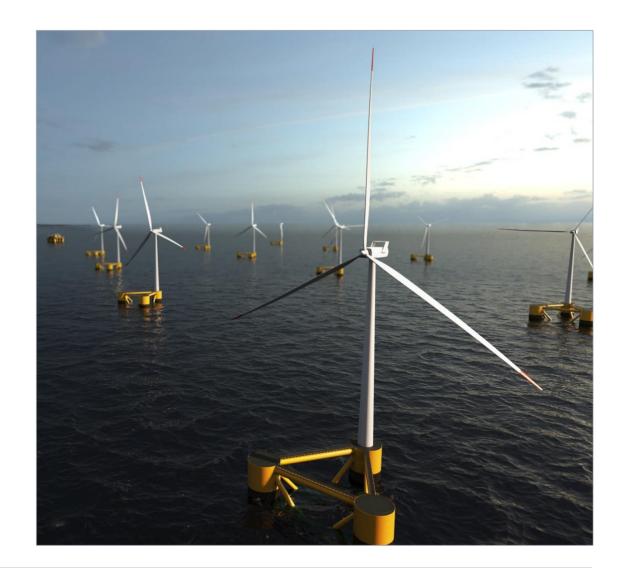
# **Global Potential for Offshore Floating Wind**





# 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 ↓

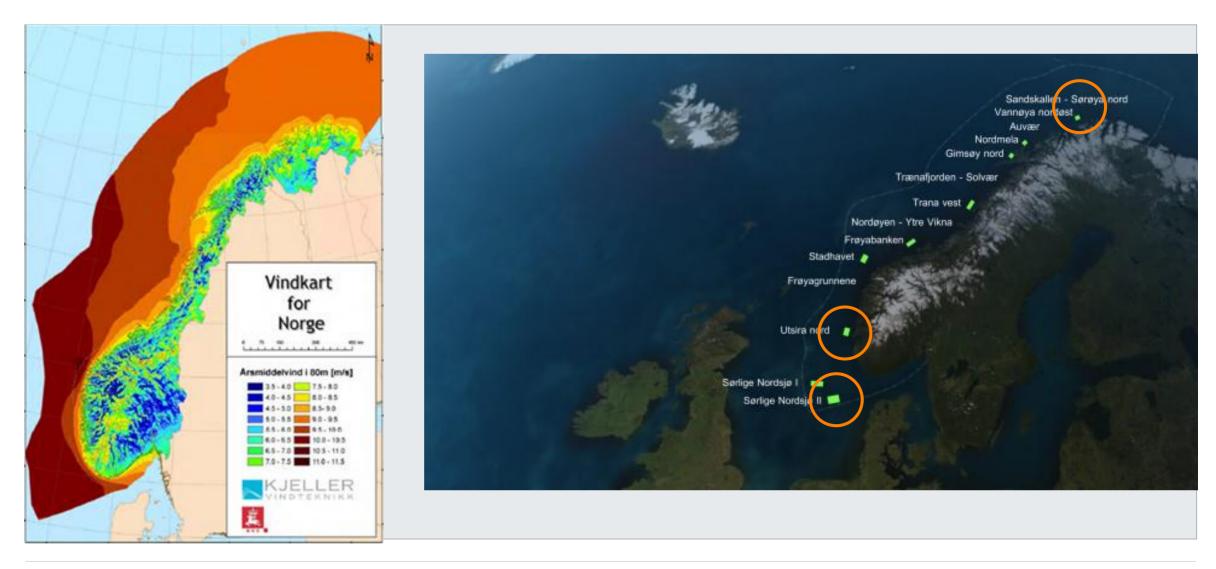


14 August 2019 | Slide 10



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# Norwegian Coast: World's Best Offshore Wind Conditions





# **Ambitious Neighbours**

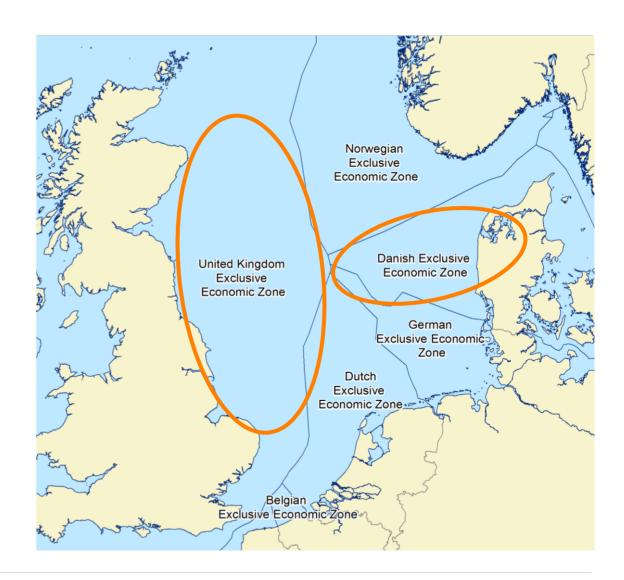
UK

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

Denmark

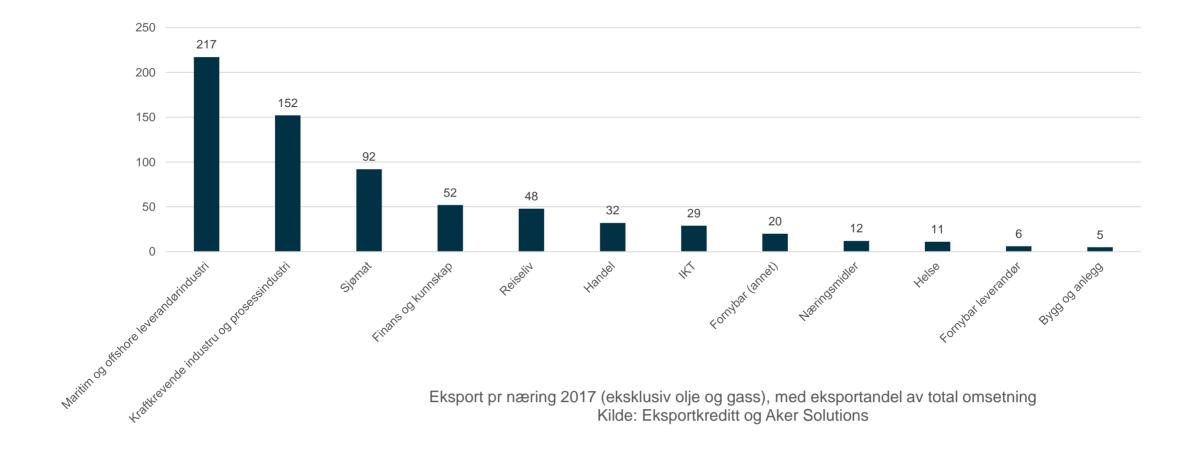
Announced **12.4 GW** of offshore wind by 2030

Norway?



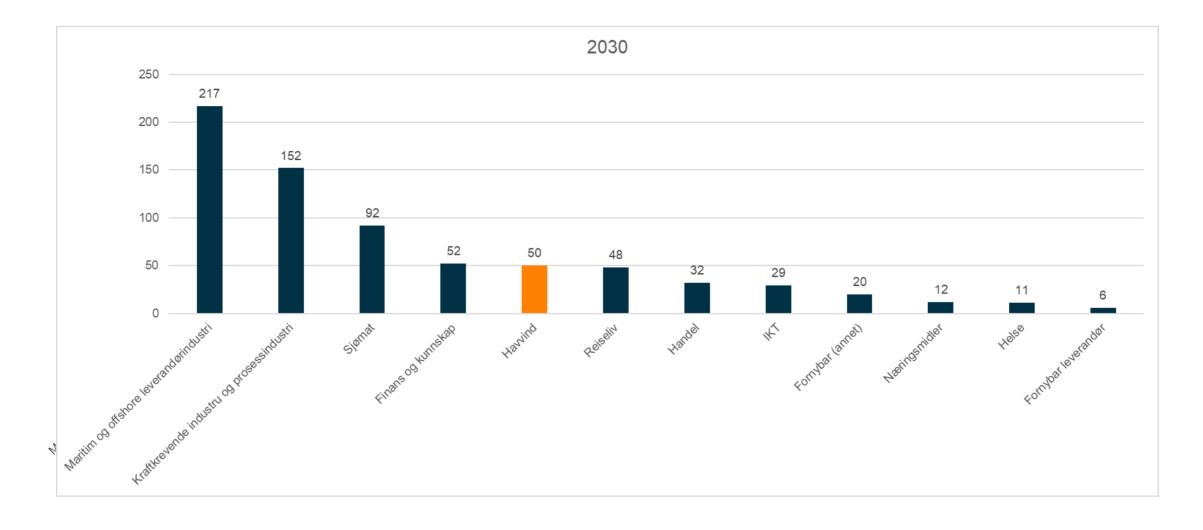


# Havvind - en ny topp 5 eksportindustri?





# Havvind - en ny topp 5 eksportindustri?







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