



Windstaller Alliance, marked trends within Offshore Wind installation and maintenance

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 Aker Solutions

DEEPOCEAN

 SOLSTAD OFFSHORE

 Windstaller
Alliance

OUR AMBITION

Combine expertise from industry leaders to provide the world's most cost-efficient and complete product supply, fabrication and marine services offering within offshore renewables

Unlocking value for both operators and suppliers



Reduced
environmental
footprint



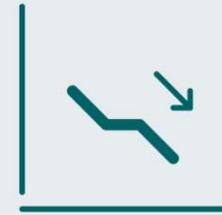
Reduced
interfaces



Reduced
client cost



Reduced
time



Reduced
risk

OUR COMPETENCE AND ASSETS



A seamless one-stop shop, offering tailored innovative technologies and specialised solutions for offshore renewables

Windstaller



Integrated one-stop shop
provider for offshore renewables



Flexible delivery and contracting model: adapted to clients' needs



Decades of **experience** and relationships



- Supporting renewable energy since 2009: Broad experience from wind farm installation, operations and maintenance
- Global presence with over 3600 employees and fleet of 90 vessels
- Vision to deliver industry-leading sustainable operations to the global offshore energy market



- 21-year track record, with extensive renewables experience
- Global presence with 900 onshore and offshore employees, incl. 300 engineers
- Dedicated assets for the renewables markets (trenchers, cable repair spread etc.)
- 50+ ROVs, in-house tool pool with 700+ tools



- Involved in renewables industries since early 1900s
- Global presence with 15 000 employees in 25 countries
- World class expertise within fabrication of substructures for wind turbines, including four state-of-the-art yards
- Broad product offering within subsea and topside equipment.



OUR OFFERING

One-stop-shop: offering tailored, innovative technologies and specialised solutions for offshore renewables

Contracting and delivery model to be adapted to client requirements



Engineering and execution

Engineering expertise and project management capabilities



Fabrication

World-class expertise within design and fabrication of floaters and jackets, and substantial track record in subcontracting



Offshore vessels

90 vessel fleet available to offshore renewables market



Subsea solutions

Specialized installation and service solutions for offshore renewable market targeting significant reduced installation time and cost

Life-of-field support, including project management capabilities from concept to operations

Preparations

- Engineering/studies
- Survey
- Inspection
- Site preparations

Fabrication

- Floaters
- Optimised mooring system
- Cable
- HVAC / HVDC platforms
- Underwater substations
- Jackets

Yard operations

- Site management
- Logistics
- Crane operations

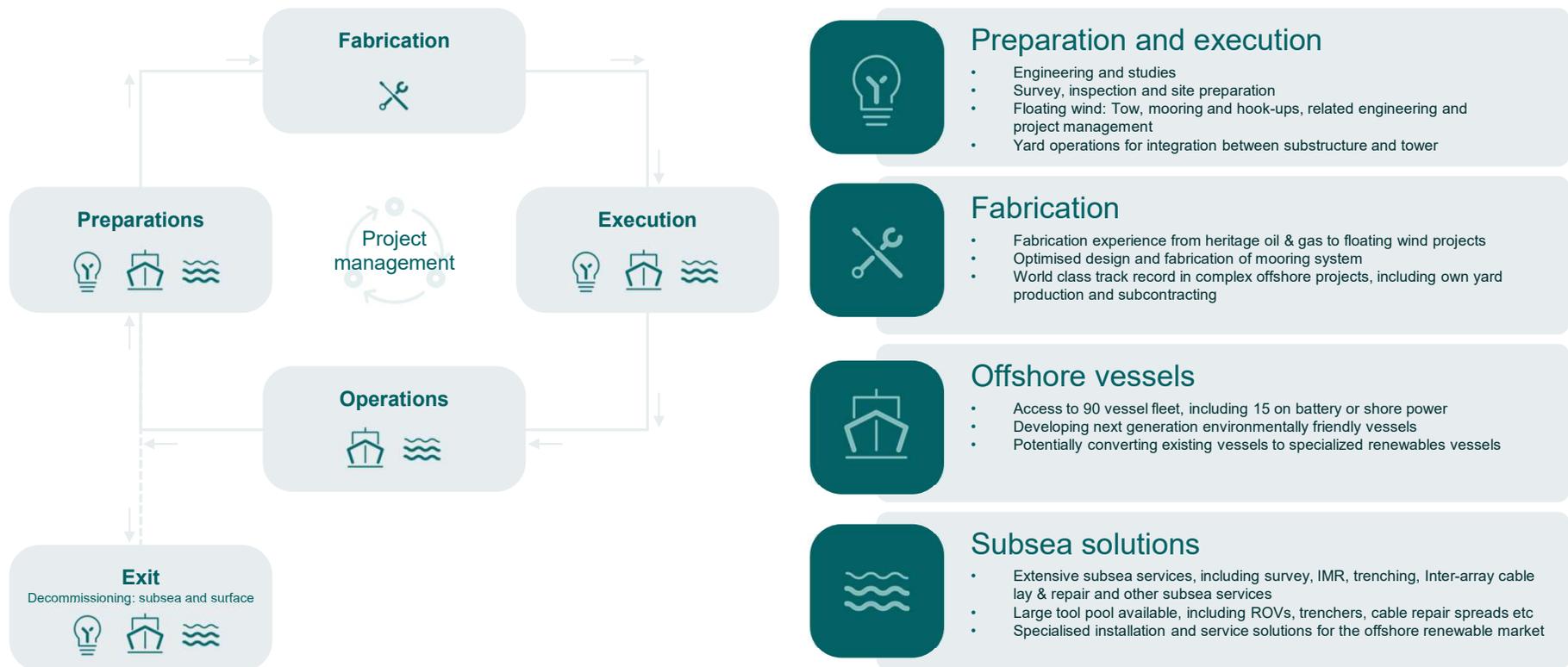
Execution

- Mooring system installation
- Towing
- Hook-up
- Inter-array cable lay
- Trenching
- Commissioning assistance

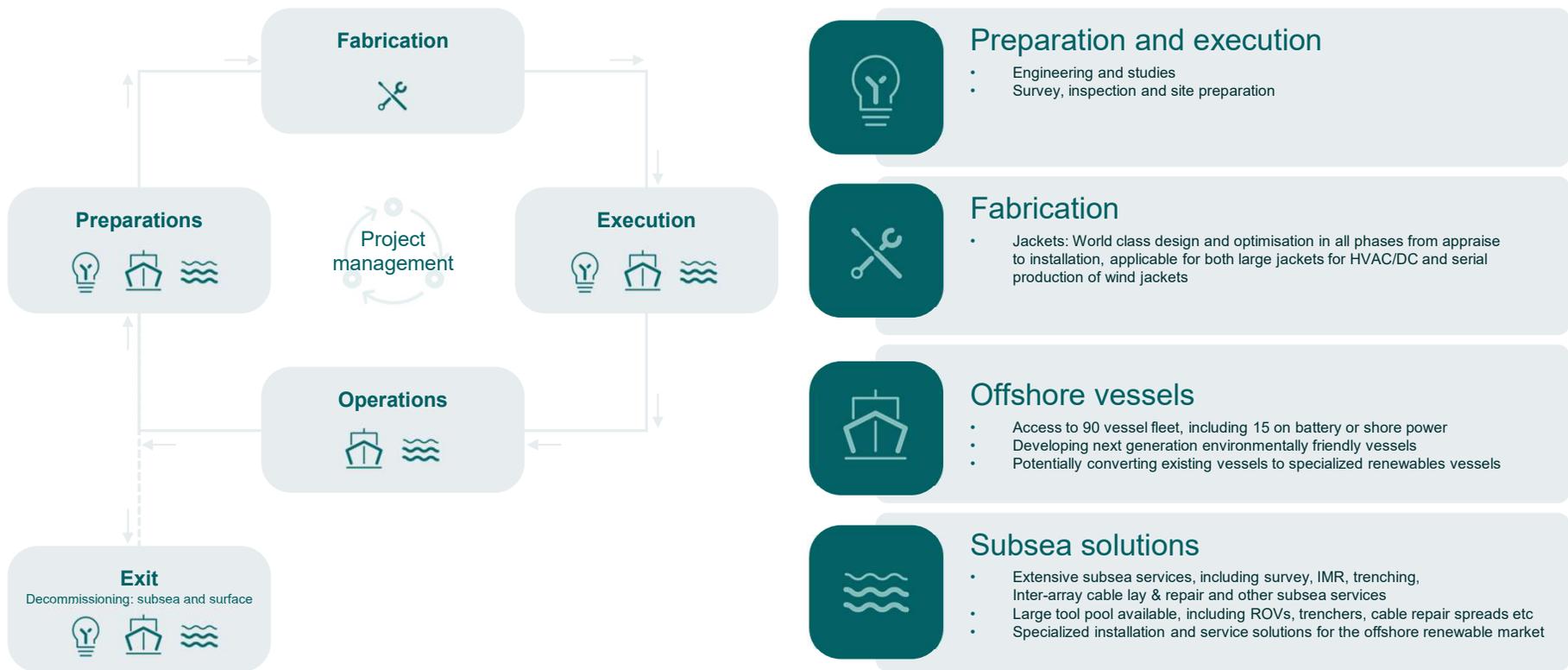
Operations

- IMR – inspection, maintenance & repair
- CSOVs – construction support and operations vessels
- W2W – walk-to-work services
- MMO – maintenance, modifications and operations

One-stop-shop offering with synergies across the value chain



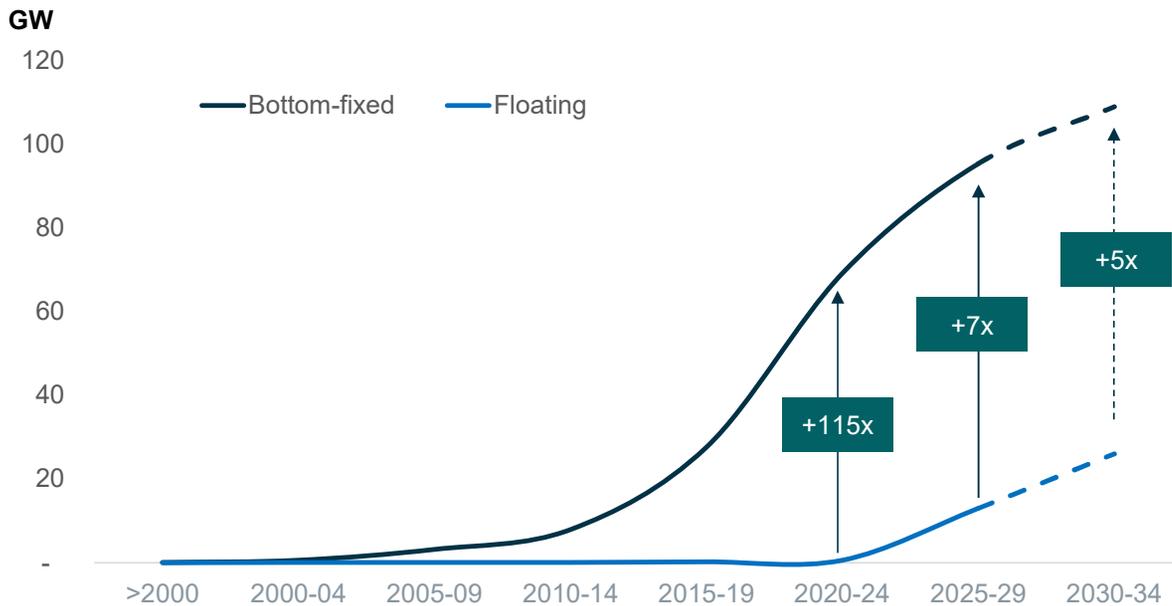
Substantial offering with synergies across the value chain



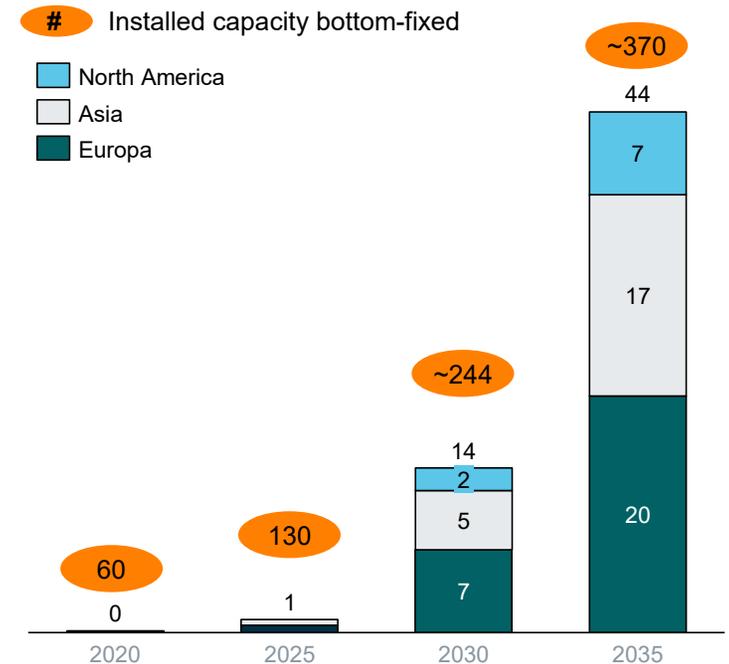
Offshore Wind – Bottom Fixed and Floating

Global offshore wind capacity additions by type and period

Only including publicly known projects from the 4C Offshore database



Floating Wind



Focus

Short term focus on bottom-fixed, while positioning for commercial-scale floating wind

Bottom-fixed will dominate in this decade, but positioning for floating starts now

REDUCED ENVIRONMENTAL FOOTPRINT

Windstaller is dedicated to reach zero emission installation target

Ambitious emission targets

~45%

~45% emission target by 2030 and net zero emission target by 2040

DEEPOCEAN

50%

Target 50% CO2 reduction by 2030 and become emission free in 2050


SOLSTAD OFFSHORE

50%

Target 50% reduction in absolute carbon emissions by 2030

 **AkerSolutions**

Supported by concrete actions



1/3 of DeepOcean fleet on hybrid power by 2022; considers pilot upgrade to hydrogen fuel cells



30% of 90-strong vessel fleet upgraded to hybrid solutions by 2025



Considering hydrogen fuel packages for vessels and the electrification of ROVs



First zero emission vessel designs ready for operation in 2024/25



15 Solstad vessels currently on battery or shore power



Ongoing projects with new zero emission technology for retrofit and new builds

SUMMARY: WINDSTALLER ALLIANCE AS INTEGRATED OFFSHORE WIND SERVICE PROVIDER

Combine expertise from multiple industry leaders to create a highly flexible one-stop-shop offering within offshore renewables

Unlocking value for both operators and suppliers



Reduced
environmental
footprint



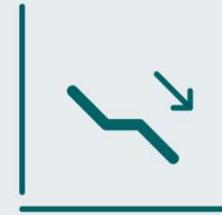
Reduced
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Reduced
risk

Greater life-of-field success

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