

A leading Danish innovative developer of pioneering lifting solutions for onshore and offshore wind turbine O&M seeks to join consortia under HORIZON-CL5-2026-02-D3-07 and D3-08.

## Summary

Profile type

**Technology offer**

Company's country

**Denmark**

POD reference

**TODK20250701006**

Profile status

**PUBLISHED**

Type of partnership

**Research and development  
cooperation agreement**

Targeted countries

• **World**

Contact Person

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Term of validity

**1 Jul 2025**

**1 Jul 2026**

Last update

**2 Jul 2025**

## General Information

### Short summary

Danish specialist in heavy-lifting technology for onshore and offshore wind turbine O&M offers technology to optimize operation / maintenance of wind energy systems. Innovative equipment tackles the most demanding lifting tasks offshore eliminating tow-to-port operations for floating turbines and obviating need for jack-up vessels on fixed-bottom sites reducing mobilization and crane time, cutting costs and CO<sub>2</sub> emissions. Seeks to join consortia under HORIZON-CL5-2026-02-D3-07 and D3-08

### Full description

A leading Danish innovative developer of pioneering lifting solutions for onshore and offshore wind O&M seeks to join consortia under HORIZON-CL5-2026-02-D3-07 and D3-08.

This innovative developer offers a first of its kind technical solution that enables a highly competitive Major Component Replacement (MCR) on floating offshore turbines and is equally effective on fixed-bottom installations. Using this technology the need for jack-up vessels will be reduced significantly for installation as well as for the highly expensive maintenance jobs related to heavy lift needed in this industry. Thus the innovation offered minimizes installation- and maintenance costs, it significantly reduces downtime for the turbine and as such provide better operational economy for the turbine owner, and furthermore reduces CO<sub>2</sub> emissions for the full project.

#### Value adding to projects:

- **System Integration:** Seamlessly link the lifting technology with other consortium innovations, leveraging our experience and know-how to adapt these technologies for real-world operation. **Real-world data:** Take advantage of existing prototype to showcase measurable gains in cost, uptime and emissions.
- **Real environmental data:** Use current innovative solution to conduct LCA studies to compare with traditional jack-up methods.
- **Reliability Insights:** Share operational and maintenance data to enhance condition-monitoring efforts.
- **Digitalization Support:** Plug into digital twins and predictive-analytics platforms for smarter O&M.
- **Autonomy & Robotics:** Collaborate on robotic-assisted or semi-automated maintenance workflows.
- **Environmental Monitoring:** Provide data on underwater noise, emissions and seabed impacts during MCR.
- **Supply-Chain Optimization:** Partner on lifecycle assessments and logistics studies for floating wind, leveraging transport-optimization expertise to streamline component movement and reduce costs. **Demo Infrastructure:** Grant access to offshore sites for pilot testing and validation.
- **Standards & Certification:** Contribute hands-on field experience and technical documentation.
- **Load-Study Expertise:** Apply existing deep knowledge of lifting and load analysis to enable other critical technologies.

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#### Advantages and innovations

##### Vessel-Independent Maintenance

This first-of-its-kind O&M solution removes reliance on jack-up vessels, significantly cutting operational costs and logistical complexity for both floating and fixed-bottom turbines.

##### Direct Downtime Reduction

By eliminating jack-up mobilization and demobilization phases, this in-situ MCR approach slashes the non-productive hours turbines spend offline.

##### OPEX Savings from Day One

Vessel-independent lifts and modular deployment drastically reduces charter, fuel and personnel costs compared to traditional heavy-lift campaigns.

##### Streamlined Logistics

Leveraging the companies' expertise in smart, containerized transport solutions to accelerate rig-up and rig-down, minimize weather-related delays, and reduce port-call expenses. Smoother project execution & more predictable O&M schedules.

##### Optimized Resource Allocation

Real-time data to avoid costly emergency call-outs.

##### Modular & Scalable Design

**Modular & Scalable Design:** A modular solution architecture with standardized units enables rapid mobilization, adaptable deployment across diverse farm configurations, and seamless integration with existing infrastructure, minimizing time-to-service and logistical complexity while boosting operational agility.

##### Enhanced Safety & Reliability

Remote-operated controls and rigorous load-study validation minimize human exposure and mitigate failure risks during offshore operations.

##### Digital-Ready Architecture

Built for seamless integration with digital twins, condition-monitoring platforms, and predictive analytics tools unlocking data-driven O&M optimization.

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#### Enabler for Advanced Technologies

A deep expertise in lifting operations, efficient transport solutions and load analysis will ensure a stable foundation for integrating robotics, autonomous repair units, and other next-generation O&M innovations.

#### Substantial Emissions Reductions

Eliminating need for heavy-lift vessels lower the lifecycle CO<sub>2</sub> emissions aggressively, supporting net-zero ambitions

Technical specification or expertise sought

#### Stage of development

**Available for demonstration**

#### IPR Status

**IPR granted**

#### IPR Notes

#### Sustainable Development goals

- **Goal 7: Affordable and Clean Energy**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 13: Climate Action**

## Partner Sought

#### Expected role of the partner

This Danish developer aims to join a consortia under HORIZON-CL5-2026-02-D3-07 and D3-08 and is looking for existing consortia or consortia under development preferably with a lead partner experienced in Horizon Europe projects.

#### Type of partnership

#### Type and size of the partner

## Research and development cooperation agreement

- Big company
- SME 11-49
- SME 50 - 249
- University
- R&D Institution
- SME <=10

## Dissemination

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### Technology keywords

- **02006004 - Installations related to construction (energy, lighting, ...)**
- **02009026 - Energy supply system**
- **02006006 - Construction engineering (design, simulation)**
- **02006002 - Construction methods and equipment**

### Targeted countries

- **World**

### Market keywords

- **06007001 - Other energy production**
- **06003003 - Wind energy**

### Sector groups involved

- **Renewable Energy**
- **Maritime Industries and Services**

## Media

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### Images



[ATOMS first generation2\\_0.jpeg](#)



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