



Learning from the Experts Webinar Series

Logistics of Offshore Wind Operations and Maintenance



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June 3, 2026

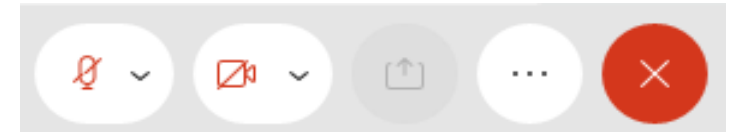
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- > If technical problems arise, please contact Adam.Hauck@nyserda.ny.gov



You'll see  when your microphone is muted

Learning from the Experts

This webinar series is hosted by NYSERDA's offshore wind team and features experts in offshore wind technologies, development practices, and related research.

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Logistics of Offshore Wind Operations & Maintenance

NYSERDA Learning from the
Experts Webinar June 3, 2026



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Agenda



- Welcome 3
- Safety Moment 7
- Overview of Operations and Maintenance (O&M) 9
- Coordination and Governance of O&M 19
- O&M Activities and Project Lifecycle 23
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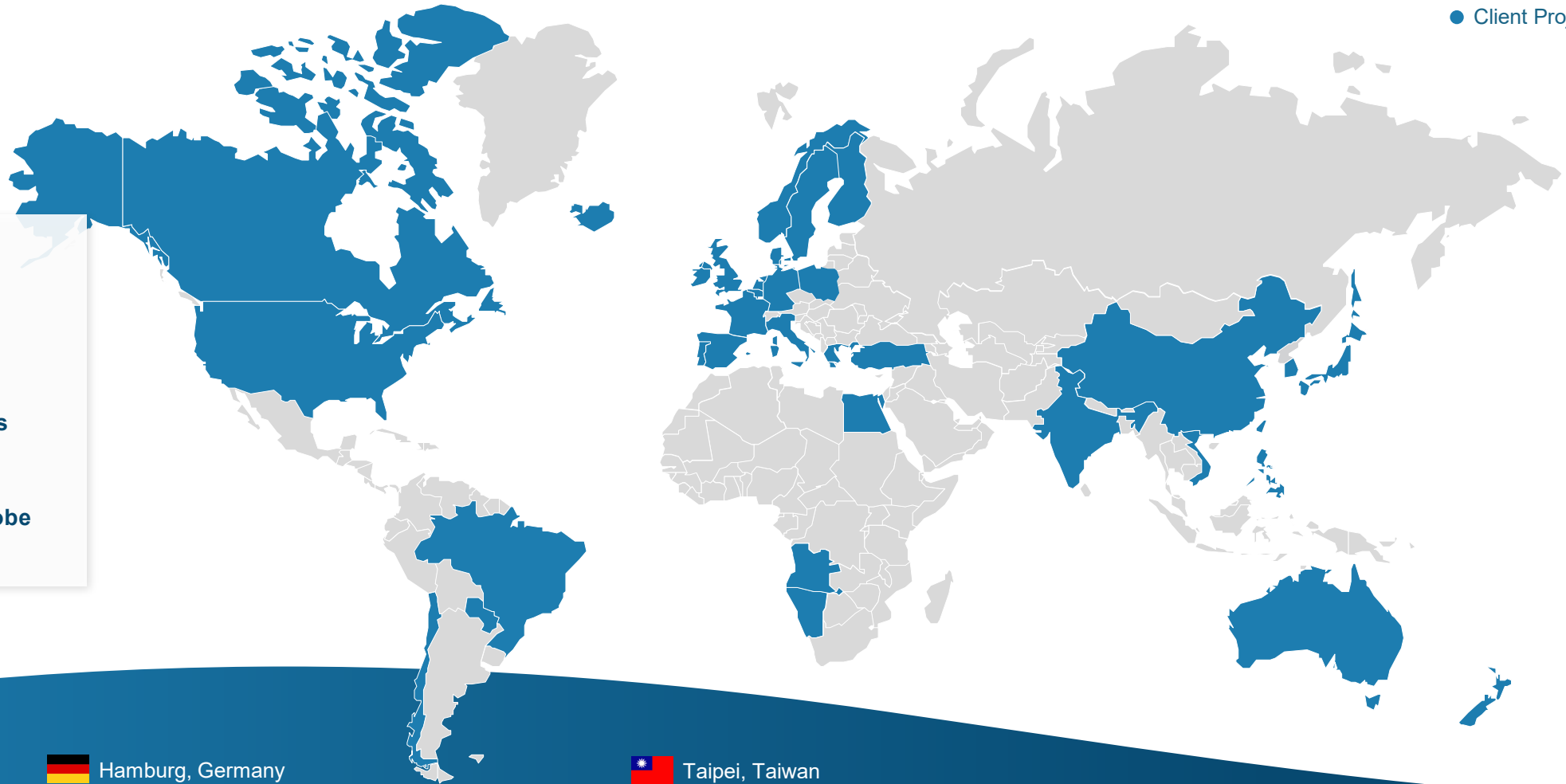
Office Locations & Client Project Regions

A global presence with local support for your project portfolio



● Client Projects

+2.6 GW operated & in backlog
+50 GW project experience
+250 Client projects serviced
+200 Employees across the globe



Offices

 Hamburg, Germany

 Taipei, Taiwan

 Aarhus, Denmark

 Boston, MA, USA


 Zaragoza, Spain

 Changhua, Taiwan

 Alberta, Canada

 Copenhagen, Denmark

 Austin, TX, USA

 Seoul, Korea

 Edinburgh, Scotland, UK

 London, England, UK

 Melbourne, Australia

Core Services

Mobilizing expert teams to deliver best-in-class services



Asset & Operations Management

Full end-to-end services to optimize operations of your renewable energy assets. Our holistic approach takes care of your project across technical, commercial and financial areas



Generation Consulting

Advisory across the renewable energy generation asset life cycle. Our expert team provides consulting and knowledge to help your project in every project phase



Technical & Transaction Due Diligence

Advisory across the renewable energy project lifecycle, supporting investors and asset owners with independent technical and transaction expertise



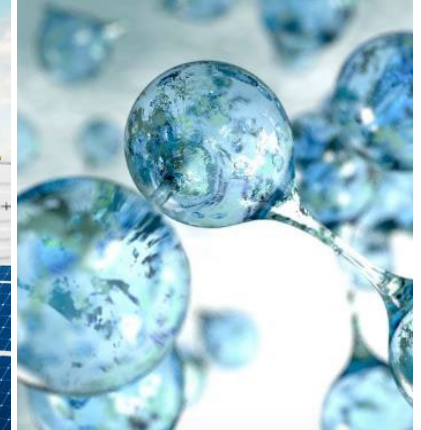
Technology & Intelligence

Bespoke intelligence offering and analytics for the renewable energy development and asset management industry



Battery Storage Consulting

Intelligent battery storage expert offering technical, operational and commercial solutions for hybrid energy systems



Power-to-X Consulting

Advisory across renewable energy processing (PtX). Our expert team provides consulting and knowledge to help your project in every project phase

Key Achievements

At a glance...



World's Largest Independent Operator of Offshore Wind

- +15Y operator agreements for 1500 MW offshore wind projects
- Approved bankable by 24 international banks and 6 ECAs (Export Credit Agencies)
- Mobilization ongoing towards 50 FTE team in APAC



1GW Onshore Wind Under Management

- Asset management and operator agreements for 3 onshore wind projects for combined 1.3 GW
- Additional pipeline of 3.3 GW of projects
- Approved bankable by Lenders and Tax Equity Investors
- Scalable delivery model to new projects and markets



One-Stop-Shop Asset and Operations Management Advisory

- +20 offshore wind projects – utilise us for O&M Preparation (strategy, life-cycle costing, procurement, mobilization)
- One-stop-shop services from early O&M concept development to operations readiness through to hand-over
- Practice groups covering technical, operational, and commercial disciplines



Power-to-X and Energy System Integration

- Financial mgnt. for multi-GW Power-to-X project portfolio
- Owners Engineers & Pre-FEED packages for 10+ Hydrogen, Ammonia, Methanol and green fertilizer projects
- Partnership with BWSC for Operations of electrolyzers
- Org. design, governance and PMO for multiple early phase development projects



Advanced Digital Solutions and Cyber Security

- Inhouse-established data infrastructure enabling performance reporting and diagnostics for 4 GW of renewable generation assets
- Delivery of cyber security policies for OT assets and SCADA design requirements for portfolio of projects
- First-of-kind advanced layout modelling on LCOE

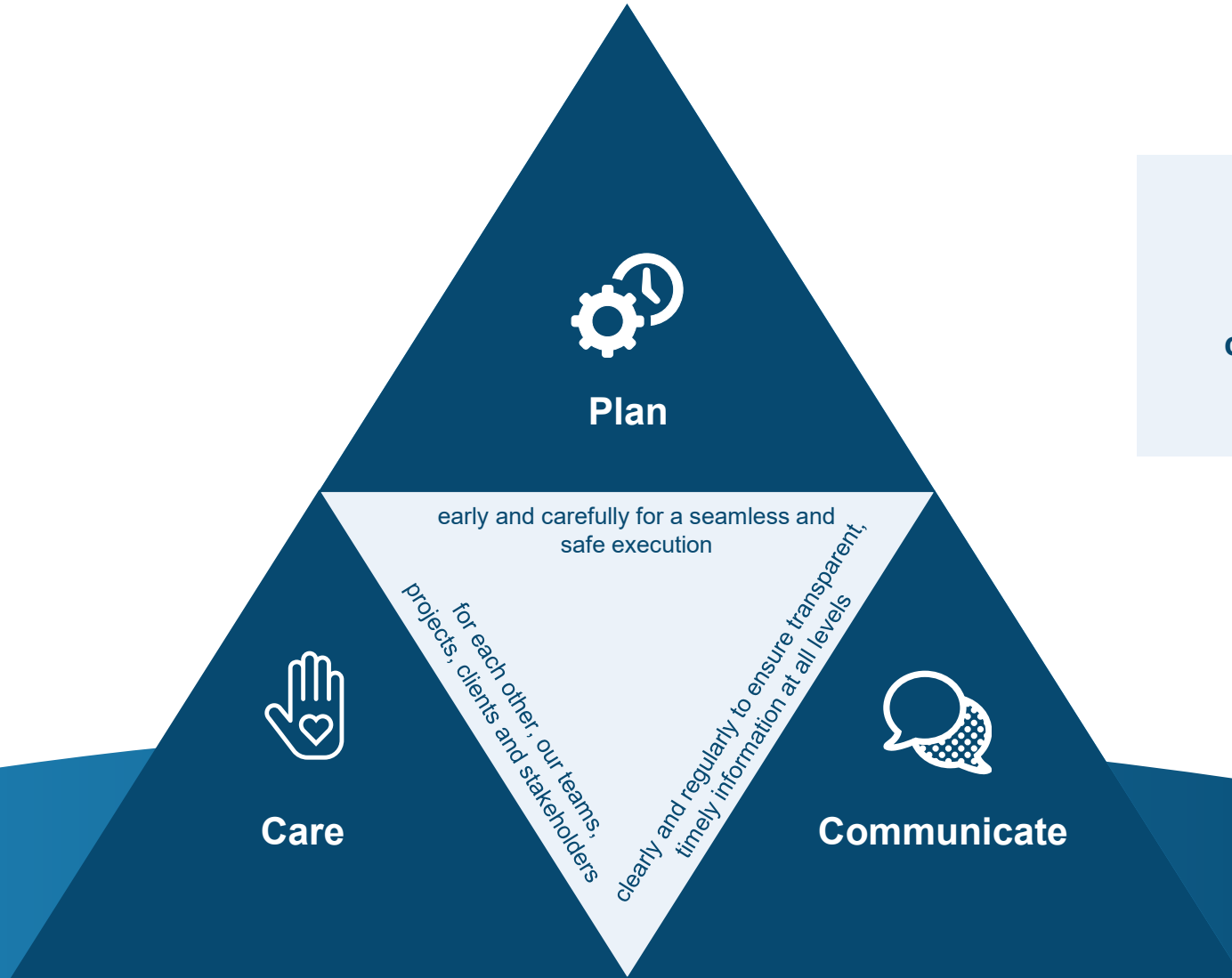
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Safety Moment — Planning, Communication, and Awareness

Offshore wind operations depend on safe, coordinated decision-making



Safe operations are achieved through **planning, clear communication, and a culture where everyone feels responsible for safety.**

Give recognition for safety

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Acronyms

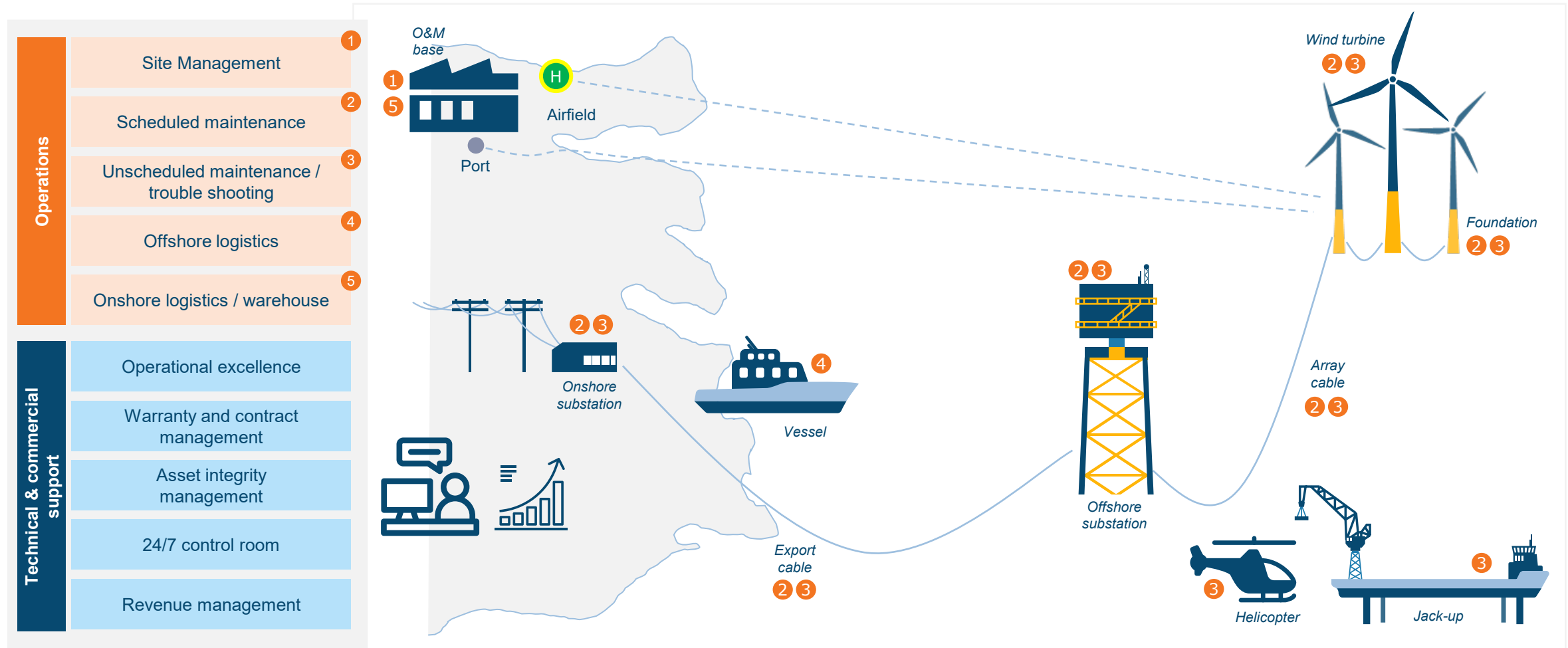


These acronyms are most useful for today. For more acronyms, please refer to [Windipedia](#)

AW	Availability Warranty	OEM	Original Equipment Manufacturer
BoP	Balance of Plant	OMA	Operations Management Agreement
CAPEX	Capital Expenditure	OnSS	Onshore Substation
COD	Commercial Operations Date	OPEX	Operating Expenditure
CTV	Crew Transfer Vessel	OSS	Electrical Service Platform / Offshore Substation
DNP	Defect Notification Period	OWF	Offshore Wind Farm
EoW	End of Warranty	PMO	Project Management Office
EPC	Engineering, Procurement & Construction	PSA	Preferred Supplier Agreement
FOU	Foundation	SAP	Senior Authorized Personnel
HoT	Heads of Terms	SMA	Service and Maintenance Agreement
HSE	Health, Safety, Environment	SOV	Service Operation Vessel
HV	High-Voltage	TP	Transition Piece
IAC	Inter-Array Cable	TSA	Turbine Supply Agreement
MDR	Master Document Register	TSO	Transmission System Operator
O&M	Operations & Maintenance	WTG	Wind Turbine Generator

Operations and Maintenance of Offshore Wind Farms

O&M in the entire operational context



The objective of an operating organization is to achieve high asset performance at low cost in a safe manner.

- ✓ Ensured asset integrity
- ✓ Targeted preventive maintenance and monitoring
- ✓ Quick reaction to unscheduled maintenance
- ✓ Cost efficient solutions

Operations and Maintenance



O&M is critical to delivering safe, efficient, and cost-effective operations over the lifetime of an offshore wind project

Operations and Maintenance (O&M) refers to the activities required to operate and maintain a wind farm during its operational phase

The objective is to ensure:

- Safe operations
- Reliable energy production
- Long-term asset performance

Operations facility is the base or headquarters from which operations and maintenance activities for a renewable energy project are coordinated typically including office space, warehouse and for offshore projects harbor facilities

Visual Examples
Next Slide



Illustration of O&M Facilities

Visual examples of O&M facilities from operational renewable energy sites



Examples from O&M facilities

Reception



Meeting room



Control room



Office space



Changing rooms



Canteen



Illustration of O&M Facilities

Representative warehouse facility photos supporting renewable energy O&M



Examples from O&M facilities

- Warehouse coordinators office



- Workshop area inside warehouse



- Access to warehouse



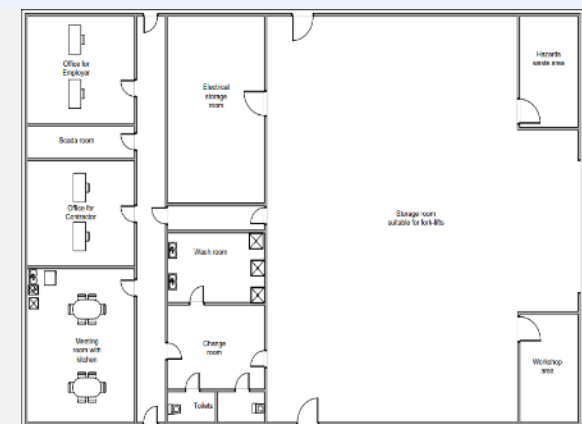
- Hazardous materials room



- Storage area



- Example of warehouse layout



Inspirational Images of Quayside / Pontoon

Images showcasing quayside and pontoon infrastructure supporting logistics and O&M



Quayside

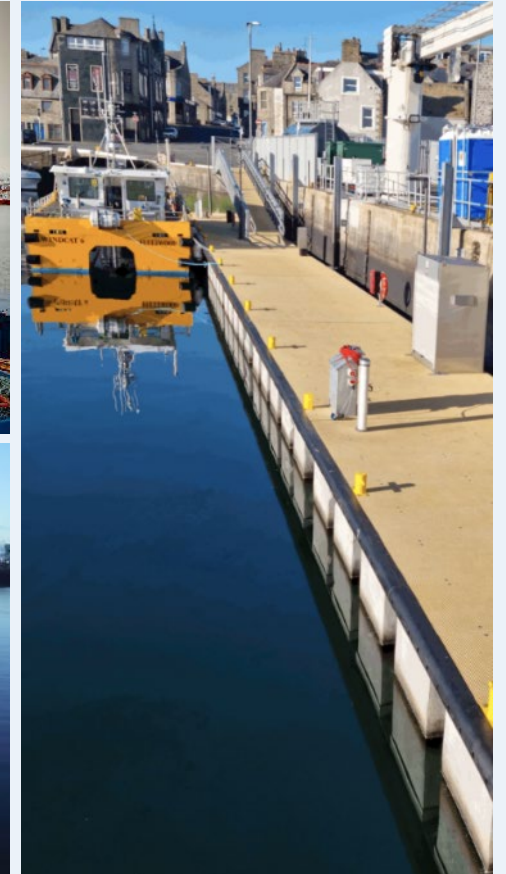
CTV



SOV



Pontoon



Typical Crew Logistics Concepts



There are 3 main logistical concepts to transfer technicians and tools/equipment from shore to an offshore windfarm

SOV Service Operation Vessel



- Large vessel for transport and accommodation of technicians
- Minor parts /warehouse storage on vessel
- Used as a base for service technicians to stay in the WF for a longer period
- A daughter craft or CTV used to supplement the SOV, to increase flexibility at site
- Access via gangway transfer

CTV Crew Transfer Vessel



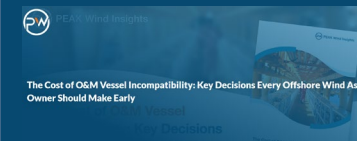
- Small vessel for daily transfer of technicians, their tools and minor parts to and from an offshore wind turbine or substation
- CTVs are small and high-speed solutions but limited by sea conditions
- Large equipment can be transferred on the foredeck
- Boat landing with ladder climb

Helicopter



- Used for fast and reliable crew transfer of technicians, trouble shooting, or medical rescue to and from a WTG or substation
- Not limited by sea conditions
- Mostly used in the daytime with visibility and distance restrictions
- Hoist of technicians to WTG or helideck on offshore substation

To Explore the Topic Further



[The Cost of O&M Vessel Incompatibility: Key Decisions Every Offshore Wind Asset Owner Should Make Early](#)

Specialized Logistics used in Operations

During O&M operations, certain scenarios require alternative logistics solutions beyond the standard setup



Tugboat



- Support maneuvering and transport within offshore wind farms
- Tow vessels, assist emergency response, and provide security support
- Transport materials and support installation and decommissioning activities
- Provide critical backup support despite limited accessibility

ROV Remotely Operated Vehicles



- Remotely operated, tool-equipped subsea vehicles controlled from a surface vessel
- Inspect and maintain foundations, cables, and subsea structures
- Collect environmental and asset performance data
- Typically used alongside human divers
- Cost-effective in harsh conditions; divers provide flexibility but have limitations

Cable laying Vessel



- Specialized vessel for laying, repairing, and maintaining subsea cables
- Equipped with dynamic positioning systems for stability during cable laying, even in rough sea conditions
- Performs surveying, trenching, and installation tasks
- Type of cable laying vessel chosen based on windfarm size, depth, cable type, and weather conditions

Illustrations of Crew and Special Logistic Concepts

Visual examples of logistics operations supporting O&M activities



Examples of Crew and Special Logistics

- SOV



- CTV



- Helicopter



- Cable Laying



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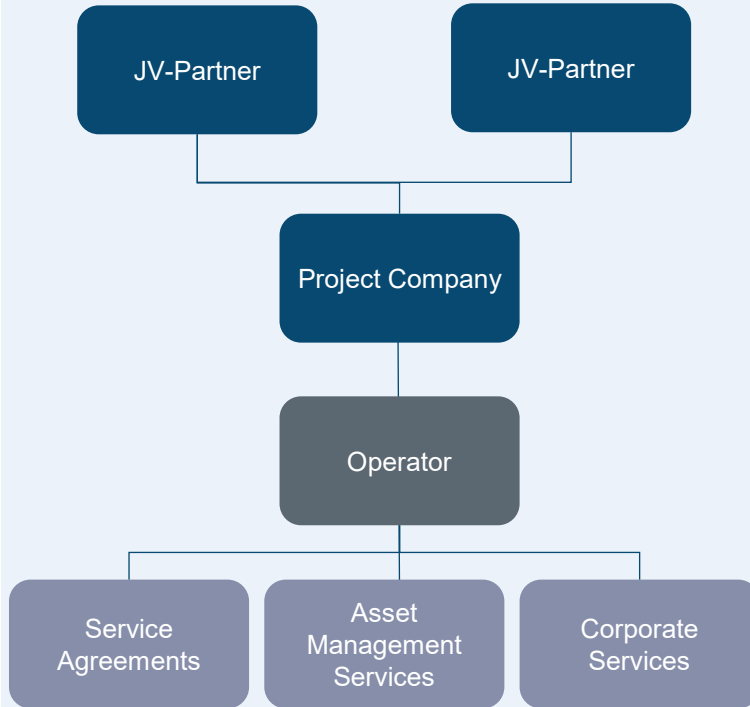
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Exemplary Operator Models

Different Possibilities to set up a project Co

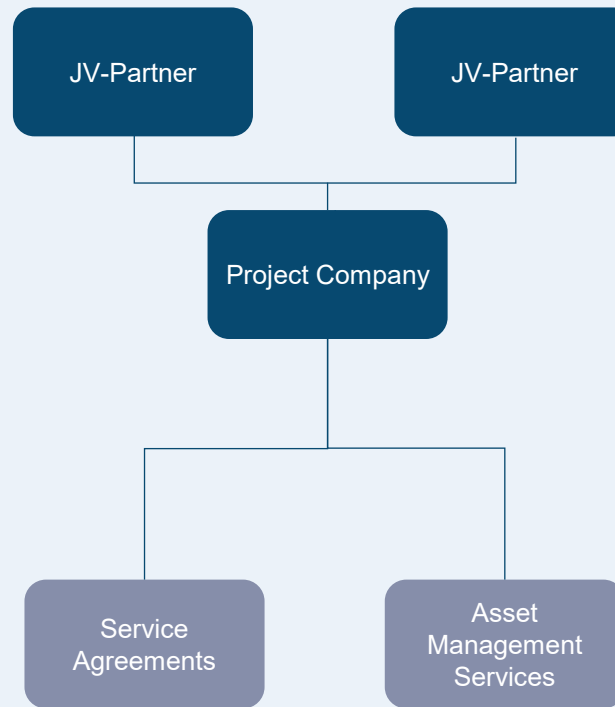


All Services Outside Project Co



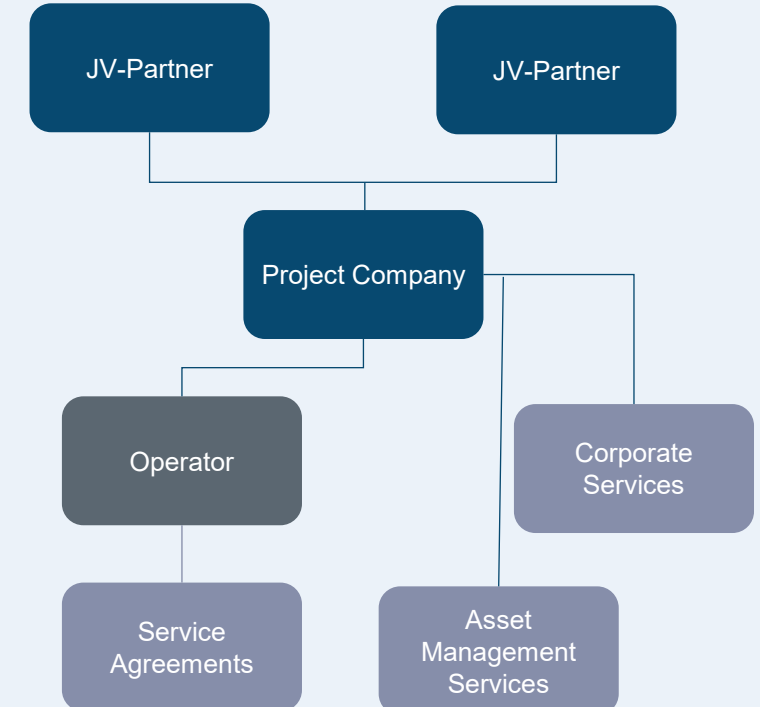
Corporate & Operations Services are outsourced with a lean Project Co that requires limited activities

Fully Active Project Co



Corporate & Operations Services are fully driven out of the Project Co

Partial Scope with Project Co



To Explore the Topic Further



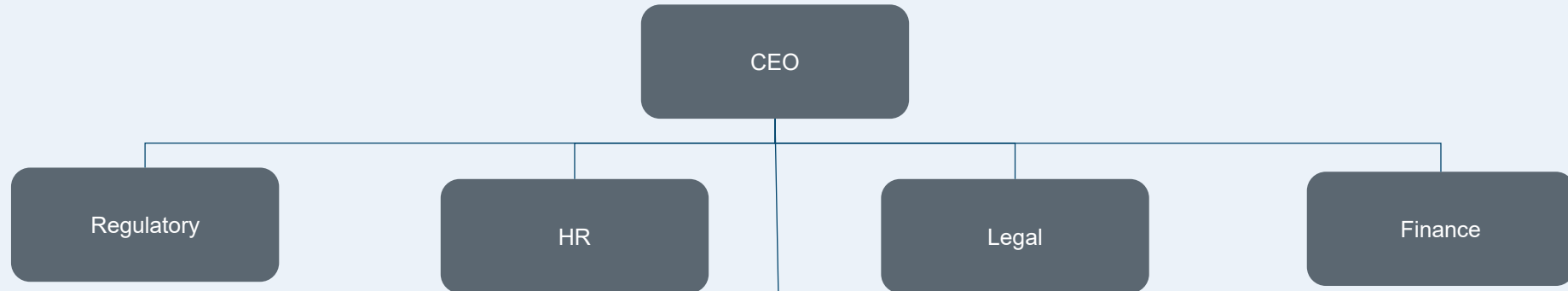
[Structuring Operations Model and Operator Agreement in Wind Projects: Governance, Risk Allocation, and Market Alignment](#)

Exemplary High Level Operator Organization

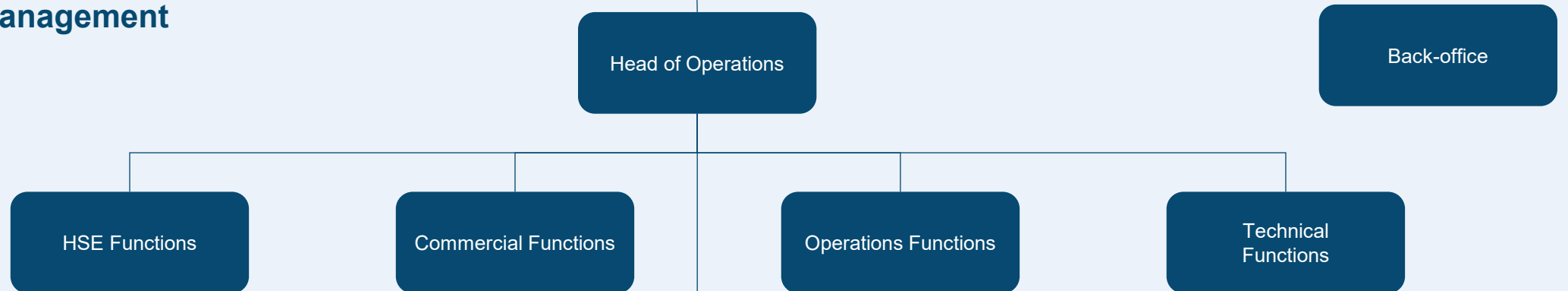


Selected Operator model, contracting strategy & project specifics will determine exact operator organization

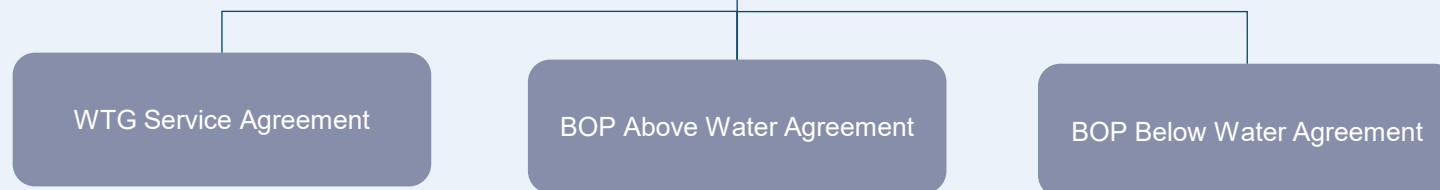
Management



Operations Management



Key Service Contractors



Examples of site-based roles

Overview of key site-based roles supporting O&M operations, with example responsibilities



Responsibilities and Tasks

Site Manager

- Overall responsible for site operations
- Management of site personnel

Shift Supervisor

- Team lead for WTG techs
- Preparation of work plans and parts for daily O&M

HSE Manager

- Monitoring of O&M activities from HSE perspective
- Ensure compliance of HSE standards

Site Assistant

- Manage site inductions and reception
- Procurement of office consumables

Warehouse Coordinator

- Preparation of spare parts required for O&M
- Stock Management and accounting

Platform Engineer

- Technical expert with ENG / tech background
- Evaluation of technical issues & interface to back-office

SAP

- Certified high-voltage personnel to prepare, manage and execute HV-operations
- Preparation of work plans for HV-related issues

Contract Manager

- Responsible for contract management
- Manage site related procurement activities

Site Planner

- Develop and maintain overview of daily and weekly O&M activities
- Ensure efficient mobilisation of resources



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Key components of O&M

Integrated functions supporting day-to-day operations and long-term asset integrity

1

Operations

- *Monitoring and control of the wind farm*
- *Performance tracking and reporting*

2

Maintenance

- *Planned (preventive) maintenance*
- *Unplanned (corrective) repairs*
- *Major component replacement*

3

Support Functions

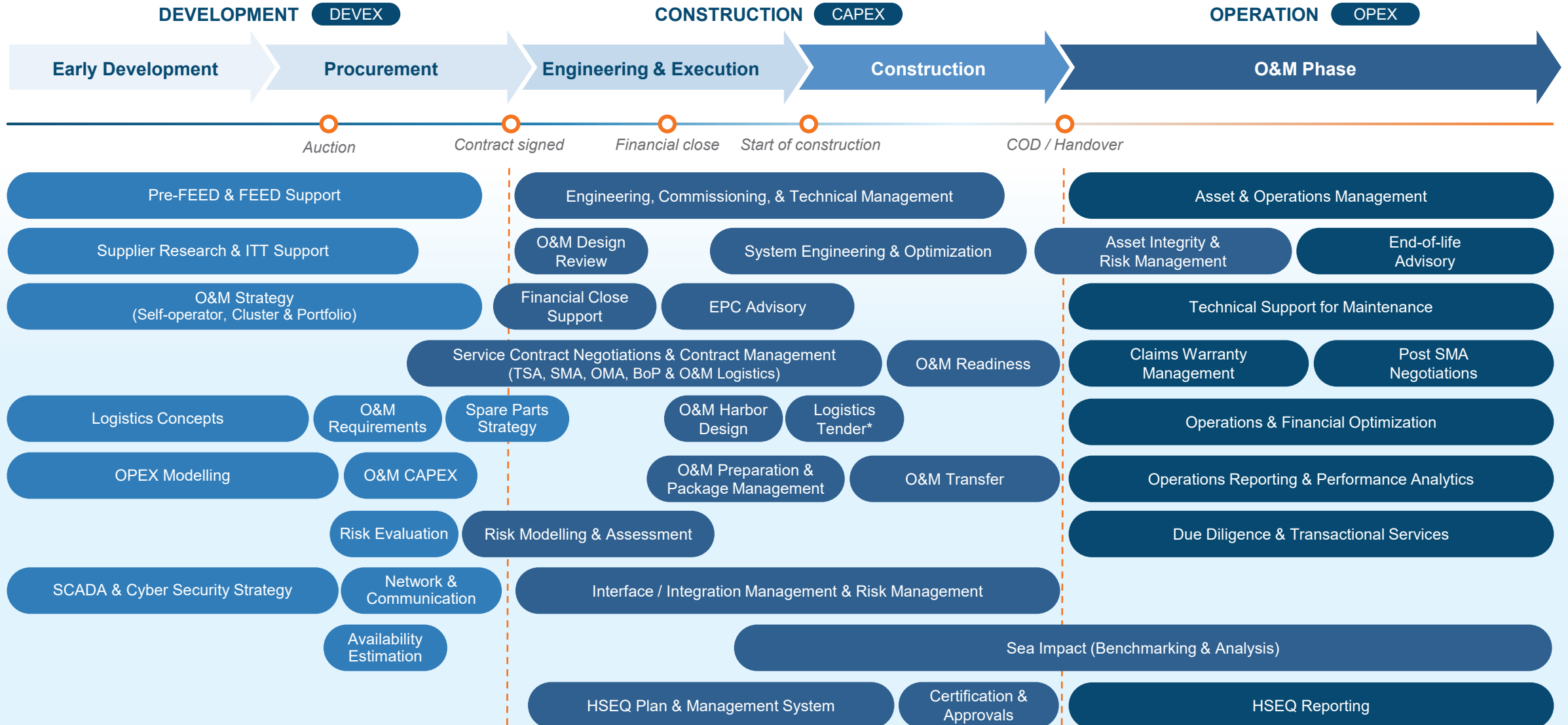
- *Health, Safety, and Environment (HSE)*
- *Spare parts and asset integrity*
- *Data and performance analytics*



O&M Across the Project Lifecycle



O&M spans the full lifecycle, starting in development where key decisions shape performance, transitioning into operations



* SOV/HELI procurement may start sooner

Operations & Asset Management

Management of wind assets in Asia, Europe & USA



PROJECT DETAILS

PEAK WIND SCOPE

PROJECT LOCATION

Operations Management

900MW Offshore [Taiwan]

Projects

- Approx. 900 MW offshore projects in Asia Pacific (APAC)
- V174-9.5 MW turbines
- Project construction in several phases.
- Project Commercial Operation Date (CoD) between in 2022-2025

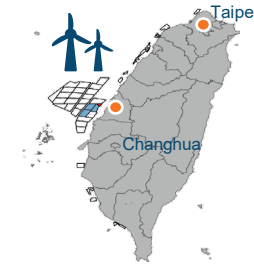
PEAK Wind Team

- PEAK Wind established business hub in APAC
- Dedicated project team locally in Taiwan
- Project team based at the project site in Taipei.
- Back-office support from PEAK Wind's global organization

Operations Management Responsibilities

- Technical asset management
- Contract & performance management
- Asset integrity & risk management
- Analytics & reporting
- On-site supervision & Balance of Plant (BoP) execution
- IT, SCADA & compliance
- Health, Safety, Environment and Quality (HSEQ) Management
- 24/7 control centre management

Taiwan



Operations Preparations

+6GW Offshore/ Onshore [Australia, Denmark, Germany, Korea, Taiwan, Spain, USA]

Projects

- +6GW offshore & onshore projects in Australia, Denmark, Germany, Korea, Taiwan, Spain & USA
- Incl., GE Haliade-X 13 MW turbines (220m rotor)
- Project construction in several phases.
- Project CoDs between in 2022-2025

PEAK Wind Team

- Established offices in Germany, Korea, Taiwan, & USA.
- Dedicated project team in USA, Taiwan, & South Korea
- Back-office support from PEAK Wind's global organization

O&M Preparations Responsibilities

- Managing Operations and Maintenance (O&M) package
- Delivering O&M preparations scoping & early-stage staffing requirement development
- Project plan development, Operational Expenditure (OPEX) development, O&M strategies
- Contracting and Engineering, Procurement, Construction (EPC) Stakeholder interface, and operations readiness
- Commercial management
- Project Management Office (PMO) services

Global



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Procurement quilt for O&M services



The responsibility for various services and contract duration depends on the overall insourcing/outsourcing strategy

Wind Farm Services		Year 1-5	Year 6-15	Year 15-20	Year 20->
Management	Asset management	Operator organization or Project Co		Operator organization or Project Co	
	Operations management	Operator organisation (3rd party, contract duration might vary from 5 to 20+ years)		Operator organisation (3rd party)	
WTG services	Preventive	OEM Service agreement	OEM SMA extension option	3rd party or Insourced Service to own organisation (self service)	
	Corrective	TSA warranties	Alternatively, 3 rd party or Insourced Service to own organisation (self service)		
BoP services	Preventive	3 rd party Service agreement	3rd party Service Agreement	3rd party or Insourced Service to own organisation (self service)	
	Corrective	3rd party Service A.	3rd party Service Agreement		
		EPC warranties			
Other	Various e.g., logistics	Under WTG SMA or Owner provided	Owner provided		
	Insurance / balancing	Subject to Owner's risk profile and experience – Business Interruption (BI) and Operational All Risk (OAR)			

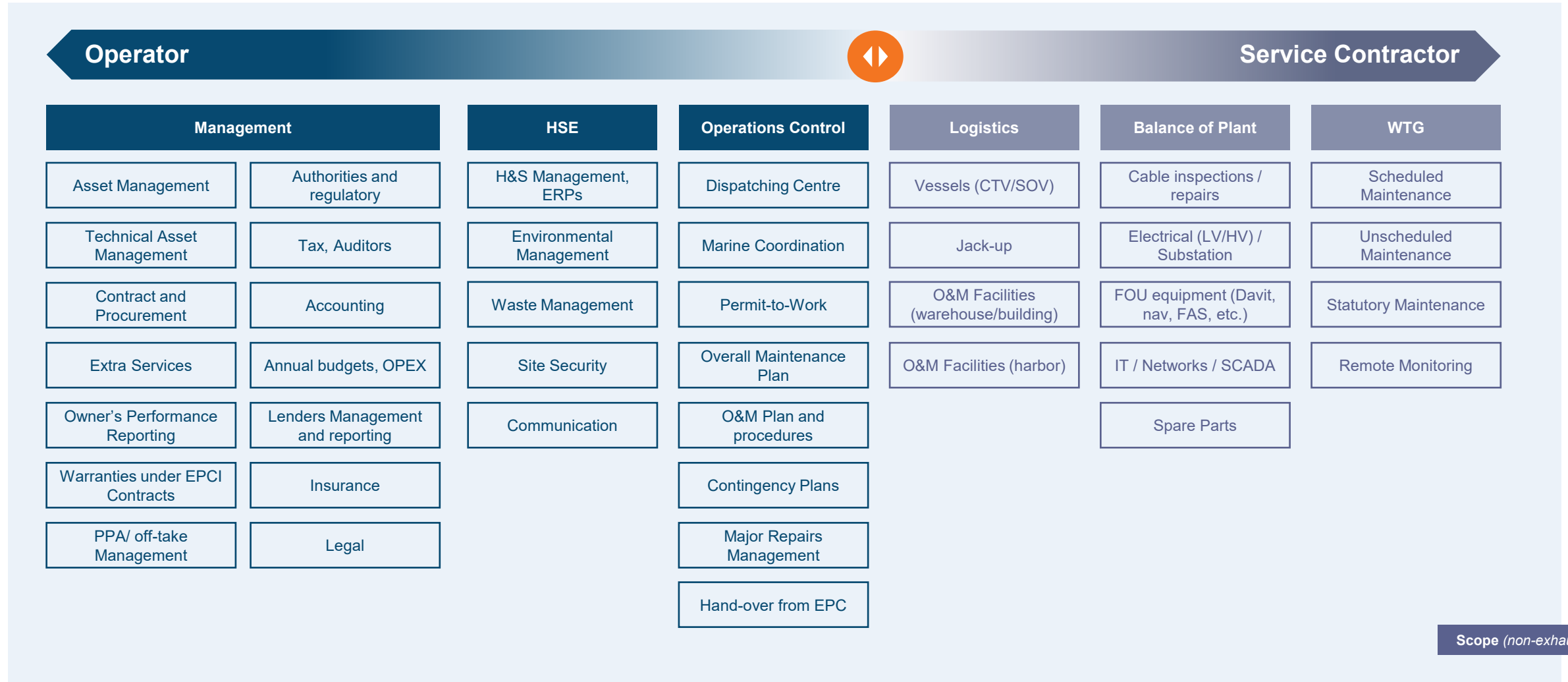
To Explore the Topic Further



[Turbine Service Contracting in the US](#)

Defining the Operator vs. Contractors split

Understanding the Operator vs. Contractor split, core focus areas, and how scope changes over time



Scope (non-exhaustive)

The Operator scope may change over the project lifetime, in line with O&M Strategy

Examples Operational Phase Contracts



Below is a selection of typical agreements to negotiate/manage for the O&M phase of a wind project

WTG Agreements	BoP Agreements		Operations Agreements			
WTG Service	BoP Service	O&M Facility	Logistics	Environmental Monitoring	IT & Cyber Security	2 nd layer SCADA
TSA	BoP Spare Parts	Road Maintenance	Security	OMA / AMA	Waste Management	Weather Forecast



To Explore the Topic Further

[\[2025 Update\] Operational phase contracts required for generating renewable assets](#)

– More than just turbines!

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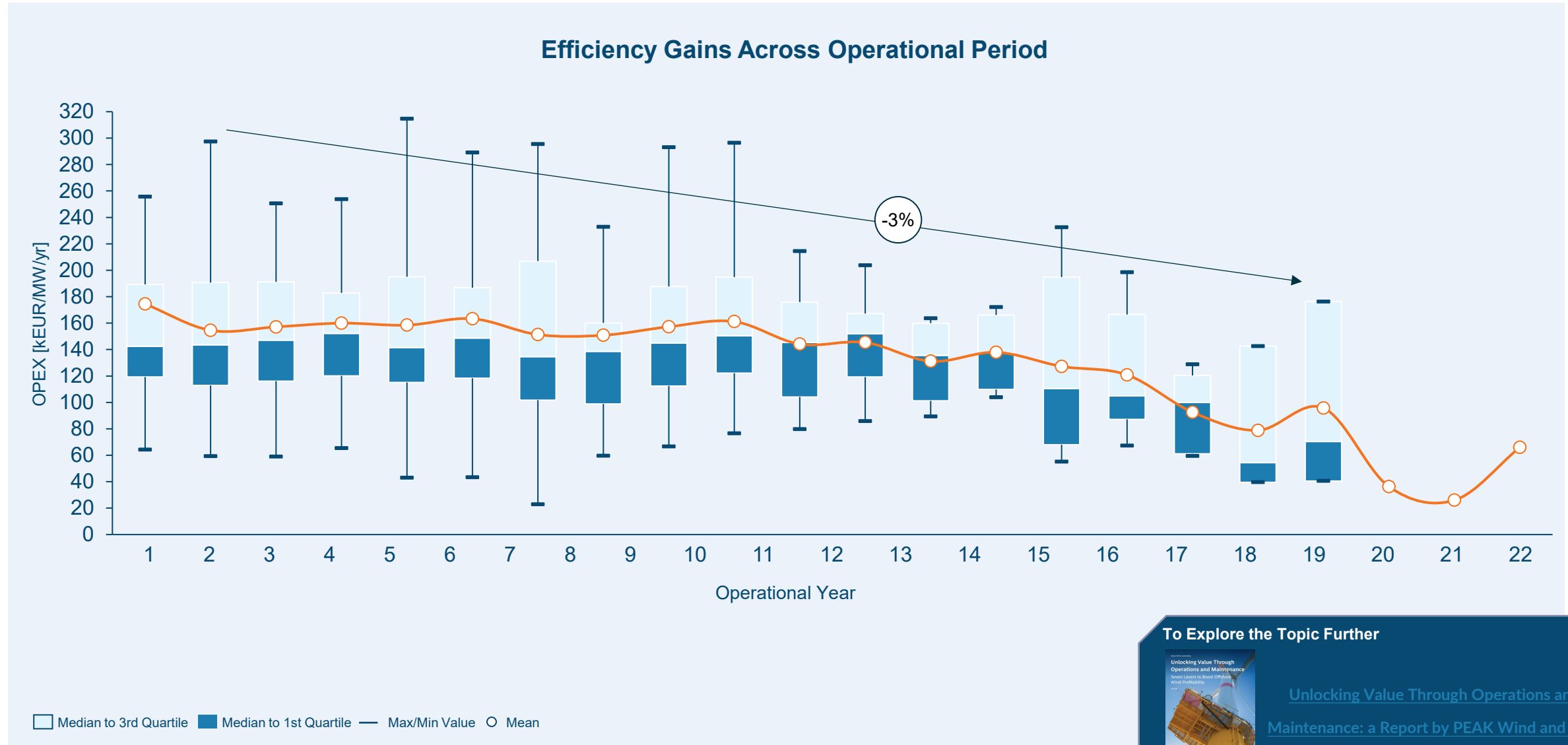


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O&M Service Execution Efficiencies



Benchmarking insights* from 70+ wind farms highlight annual productivity gains of up to ~3%



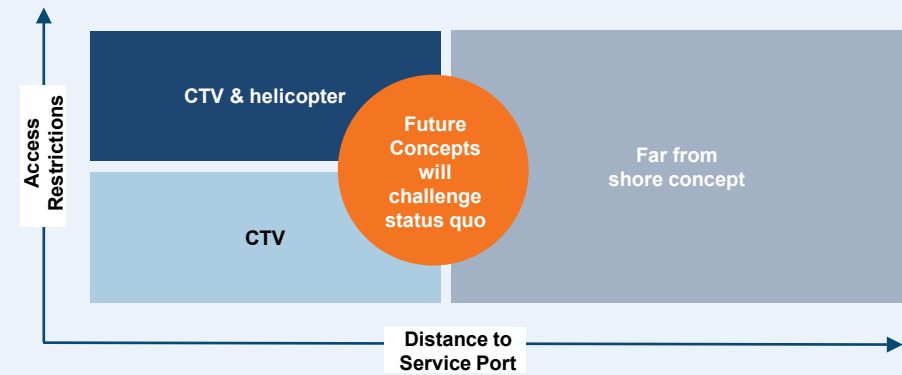
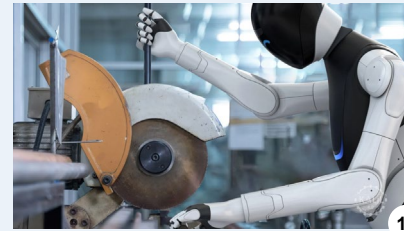
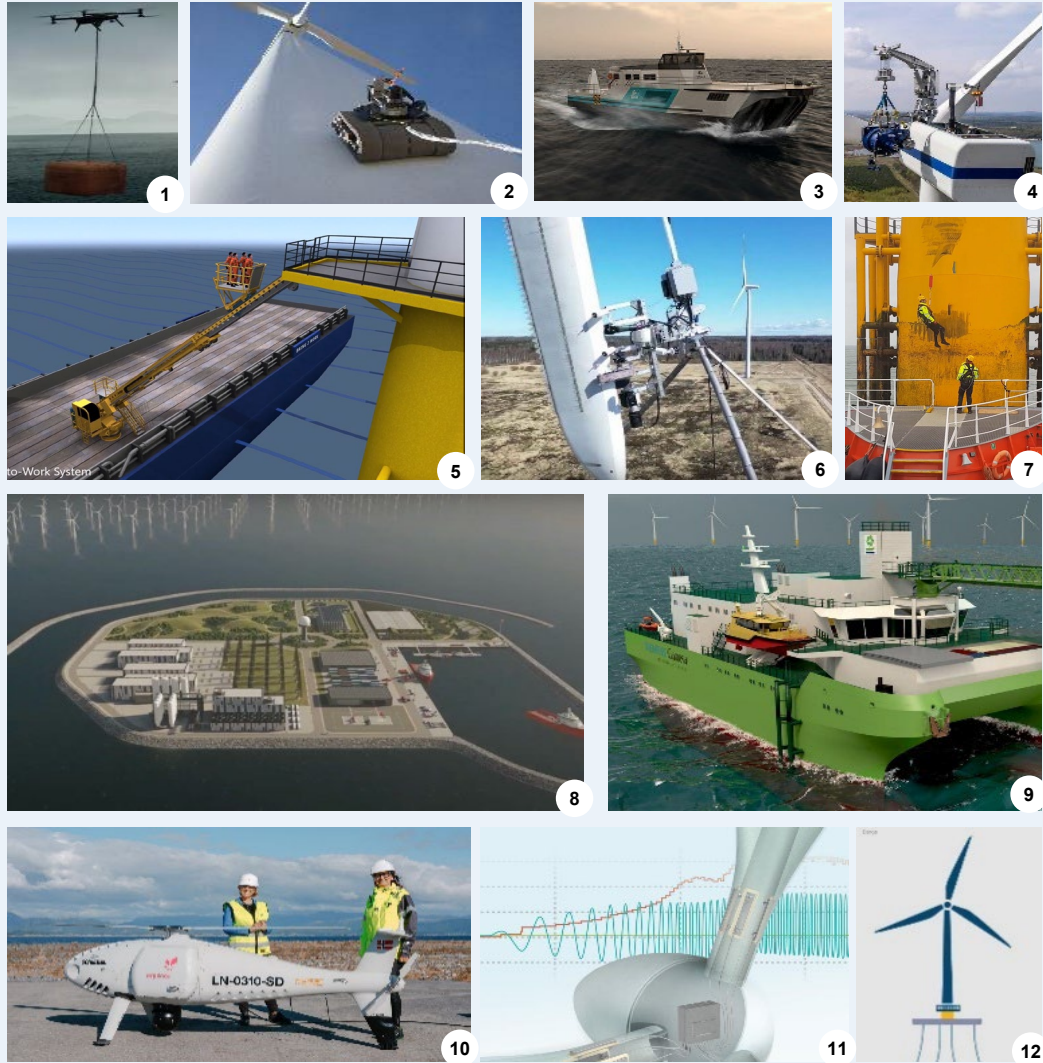
*Based on PEAK Wind market study, evaluating financial statements of 70+ European offshore winds

To Explore the Topic Further

[Unlocking Value Through Operations and Maintenance: Seven Levers to Boost Offshore Wind Profitability](#)
A Report by PEAK Wind and BCG

Advanced Solutions Driving O&M Efficiency

Advanced logistics and technology solutions enabling improved productivity and operational efficiency over time



¹UAS Vision ³Esna ⁵ZBridge ⁷Pict Offshore ⁹Deme ¹¹Phoenix Contact ¹³NEURA
²Teknovis ⁴Liftra ⁶Aerones ⁸VindØ ¹⁰Equinor ¹²PEAK Wind ¹⁴PEAK Wind Market Study

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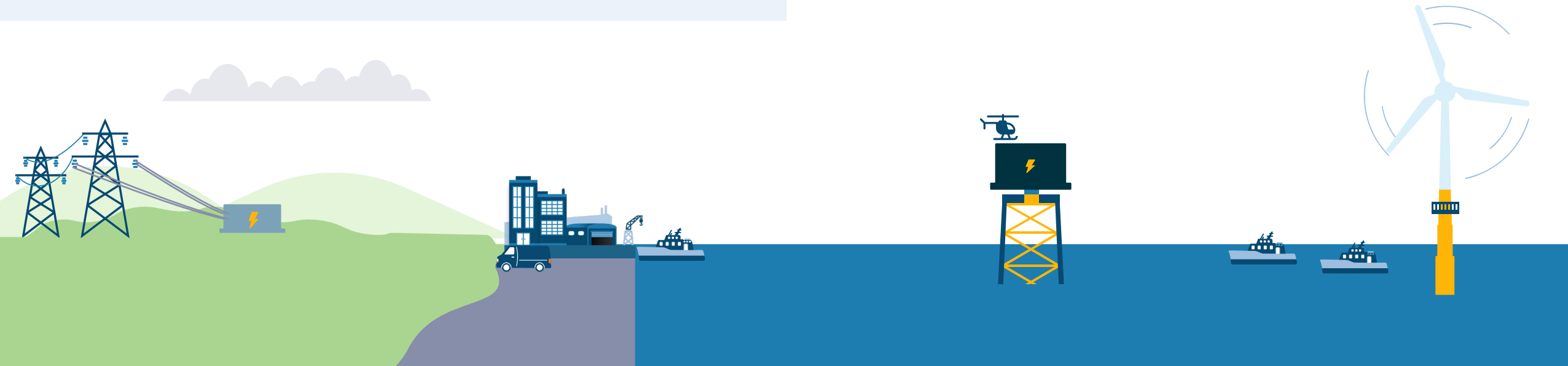
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Key Take Aways and Questions

Effective O&M is essential to delivering safe, reliable, and cost-efficient offshore wind operations over the asset lifetime



- Offshore wind O&M is complex and multidisciplinary
- Safety, reliability, and performance are core objectives
- Logistics is a critical enabler of offshore operations
- O&M requires strong coordination and governance
- O&M spans the full project lifecycle
- O&M setup is project-specific
- Continuous improvement creates value over time



Next Webinar

July 15, 12:00 p.m. ET

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- How Offshore Wind Can Bolster Grid Reliability
- How Offshore Wind Contributes to Domestic Energy Security
- Port Infrastructure Financing for Offshore Wind
- Offshore Wind Financing Structures
- Offshore Wind Vessels – Constraints and Opportunities

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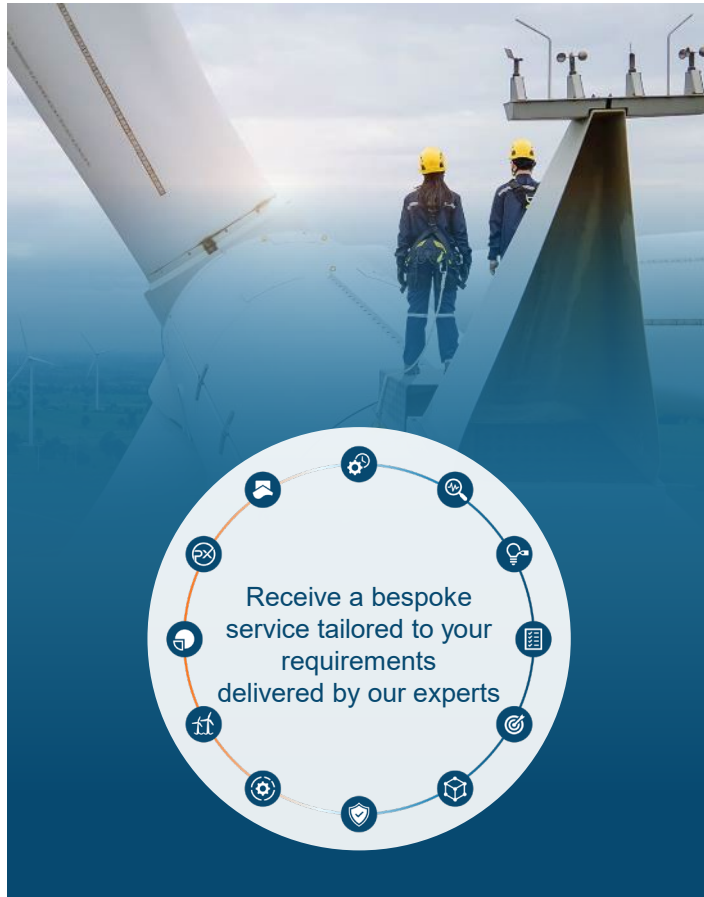
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NYSERDA

PEAK Wind's Asset & Operations Management

Securing the highest value for your assets while managing risks



General Management

- Governance & Project Entity Management
- Performance Management & Project Reporting
- Compliance & Regulatory Management

Engineering & Technical Management

- First & Second Level Engineering Support
- Asset Integrity & Risk Management
- IT, SCADA & Cyber Security

Commercial Management

- Stakeholder Management
- Procurement Management
- Contract & Supplier Performance Management

Financial Management

- Liquidity & Funding Management
- Payments, Accrual & Cash Management
- Budgeting, Accounting & Financial Reporting

Operations Management

- HSEQ & ESG Services
- Site & BoP Management
- Life-cycle Management (End-of-life planning)

Operations Control Centre (OCC)

- 24/7 Operation Monitoring
- O&M Management & Marine Coordination
- WTG Performance Analysis

 **Asset & Operations Management**

 **Generation Consulting**

 **Technology & Intelligence**

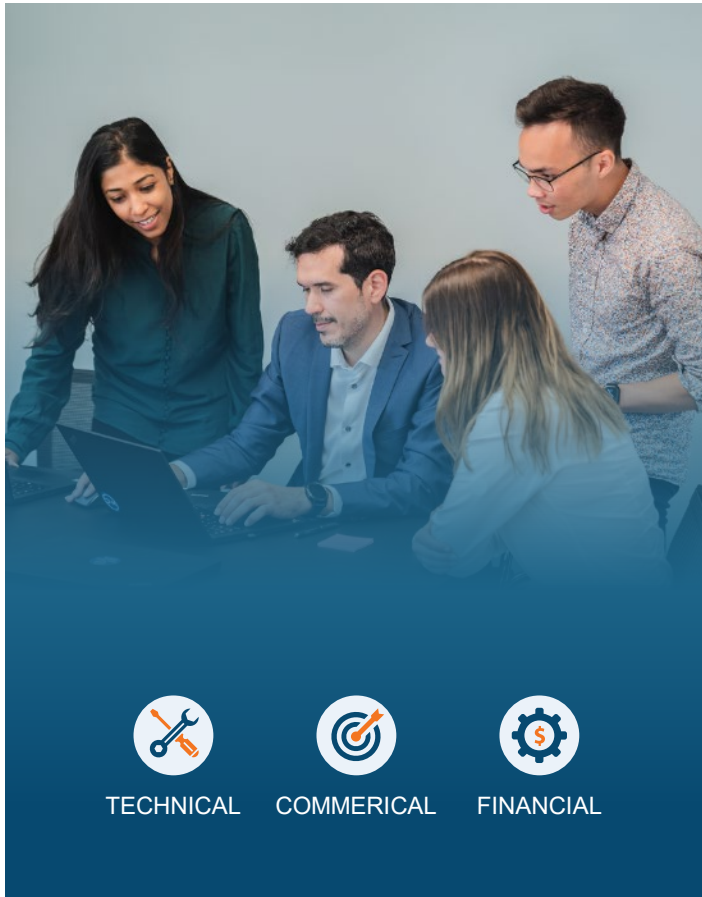
 **Offshore Market Analytics**

 **Power-to-X Consulting**

 **Battery Storage Consulting**

Holistic Consulting Services Across the Project Lifetime

Tailored to your project requirements



TECHNICAL



COMMERICAL



FINANCIAL

Strategic Consulting

- Modern Management Consulting Services
- Strategy, Problem-Solving, Project Management
- Operations Performance Review & Improvement

O&M Business Case

- Lifecycle Budgeting & Simulations
- O&M Strategy & Concept Development
- Availability & Budget Optimisation

Commercial & Contracts

- Supply & Service Contract Negotiations
- Contract & Warranty Management & Claims
- Revenue, PPAs & Hedges

Specialists

- O&M Design Review & Concept
- Operational Excellence & Strategy
- Market & Supply-Chain Analysis

Operations Preparations

- O&M Programme Development & Execution
- O&M Package Management
- EPC Handover Facilitation to O&M

Due Diligence & Transactional Services

- Technical Due Diligence
- Financial Due Diligence
- Commercial Due Diligence



Asset &
Operations
Management



Generation
Consulting



Technology &
Intelligence



Offshore Market
Analytics



Power-to-X
Consulting



Battery Storage
Consulting



Data & Intelligence

Data Acquisition, Data Management, Front-end Reporting & Analytics Toolkit

- Daily Asset Updates
- Platform Benchmarking & Analysis (across technical and commercial data-sets)

SCADA & Cyber Security

Integrated Secure Solutions, Management of OT/SCADA Systems & Data Flows

- Project Management of SCADA, OT & Cyber Security (from Strategy and Design to Operations)
- Cyber Security Managed Services

Engineering

Engineering Services from an Owners Perspective

- Asset Integrity Advisory
- AEP & Power Curve Advisory
- Turbine & Balance of Plant Engineering
- End-of-life Decision Advisory

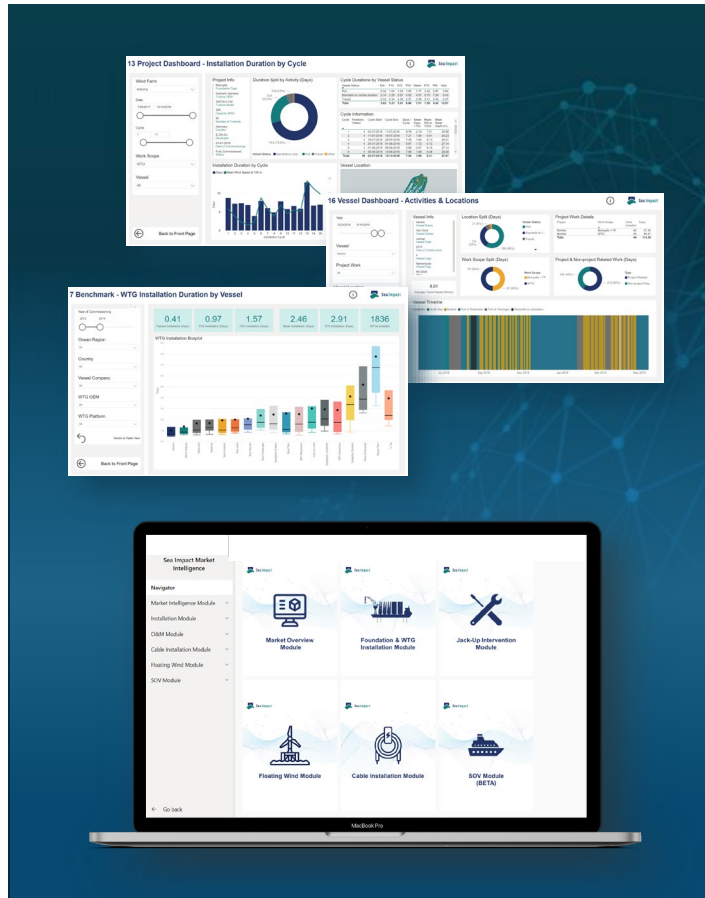
Advanced Programs

Modelling Services for Design, Optimisations & Digital Twin Themes

- Scientific Computing
- System Engineering & Optimisation
- Condition Monitoring & Digital Twin
- Data Analysis & Bespoke Modelling

Sea Impact – Innovative Market Intelligence

Access actual global project data for installation and O&M optimisation



Market Intelligence Platform

- Sea Impact's platform offers instant access to hundreds of industry KPIs based on actual data
- Gain access to +50 dashboards of intelligence with deep insights through interactive charts, maps, and visualizations.

Data-Driven Decision Making

- Empower project planning and due diligence with a decade of industry-wide data, allowing for data-driven decision-making.
- Enhance OPEX estimates by basing O&M cost models on major component failure rates for any operational turbine.

Optimised Planning and Budgeting

- Access actual installation durations from over 75 offshore wind farms, enabling optimization of project schedules and budgets.
- Evaluate and select the right contractors using empirical performance benchmarks for vessels, WTG OEMs, and more.

Tailored Bespoke Intelligence

- Our team of analysts is ready to create tailored intelligence as consulting or reports based on our comprehensive databases and knowledge.
- Examples include installation schedule reviews, vessel market size analyses, project risk and delay assessment.

 **Asset & Operations Management**

 **Generation Consulting**

 **Technology & Intelligence**

 **Offshore Market Analytics**

 **Power-to-X Consulting**

 **Battery Storage Consulting**

Speaker's Introduction

Background and Experience



Today's Speakers



Annika Mathiasson
Deputy Country Director

Role in PEAK Wind

- Deputy Country Director Americas
- Operations Preparation Lead Consultant

Experience with Offshore O&M Projects

- PEAK Wind since 2021
- 12+ years of offshore wind experience spanning WTG development, O&M Strategy, and Operations transition
- Previously O&M Package Manager for 4 GW of US offshore projects
- Commercial negotiations of service agreements across several OEMs and WTG platforms
- Developed operator and offshore operations logistics strategies
- Led development of operational strategies, OPEX budgets, and performance models



Matti Niclas Scheu
Director

Role in PEAK Wind

- Director, Head of Sales & Partnerships
- Project Lead Asset Management & Operations Optimization

Experience with Offshore O&M Projects

- PEAK Wind, Germany
- Previous Head of Technical Asset Management for 900MW offshore in APAC
- 14+ years of offshore wind experience across the full project lifecycle
- Led O&M strategy development, asset management setup, and operating model design
- Extensive experience in commercial structuring and negotiation of O&M agreements
- Delivered cost optimization and operational readiness programs for large-scale offshore wind projects across Europe, the U.S., and APAC



Thank you

Find out more at [peak-wind.com](https://www.peak-wind.com)