

EWPL Ocean
A joint venture between ESVAGT and Wind Power LAB

ALL YEAR OFFSHORE BLADE ASSESSMENT

Blade Assessment Service Train for offshore wind



WIND POWER LAB

ESVAGT
SAFETY & SUPPORT AT SEA

Offshore wind turbines generators need **regular assessments** of their blades due to erosion, lightning strikes and fatigue.



The blade assessments are unfortunately **costly and time consuming**, until today.

AI-POWERED BLADE RISK CONTROL



The challenges make blade assessments **costly** and **time consuming**

EWPL Ocean has the solution



Be on top of blade integrity while we do the work by offering you a flexible blade assessment service train:

- ✓ An easier all-in-one solution
- ✓ A cheaper alternative
- ✓ An independent party performing the assessments
- ✓ Blade assessments performed during off season, so you can do the repairs during repair season
- ✓ Assessments of a higher quality compared to current solutions
- ✓ Improved HSE during assessments
- ✓ Flexibility in general

Current challenges for blade assessments of offshore wind turbine generators



Frequent blade inspections required



Planned assessments are postponed due to inclement weather



Assessments by technicians at wind turbine generators only possible during repair season



Repairs can only be done during repair season



Large amounts of data generated



Limited blade expertise available

VALUE CREATION FOR YOU

- Minimize time spent on planning and execution
- Simply order the reports and tell us when you need them
- Reduce your risks, we manage the weather and operation
- Benefit from the leading AI analytics and reduce time on manual assessments



Cross utilization
of inspection
vessels



Reduced
lead time for
analysis and
assessment



Lower repair
costs



Better planning
of repair
sessions



Better and
quicker repair
of wind turbine
generators



Higher uptime

Your only tasks:

- **Indicate the window for inspections and when you want reports delivered**
- **Remote start/stop/positioning of wind turbine generators to be assessed**

SOLVING THE WIND INDUSTRY BLADE DILEMMA

Continuous blade assessments are necessary to control blade health and to mitigate blade defect risk and development, in order to keep blade repair costs as low as possible.

LIMITED SEASON FOR BLADE REPAIRS

Today, it is not possible to carry out efficient blade inspections offshore during off season, especially due to weather downtime. The result is a huge time pressure in terms of getting blade inspections and blade assessments done early spring, in order to be able to execute repairs immediately, during repair season.

ALL YEAR BLADE ASSESSMENT SERVICE - A FLEXIBLE SERVICE

An all year blade assessment service train for the offshore wind industry is now available! This flexible all-in-one service is delivered by a joint venture that combines WPL's market leading blade analytics and ESVAGT's more than 40 years of experience of operating safely in even the harshest of conditions. EWPL Ocean will deliver high quality assessments in the most efficient way!

Our staff takes care of everything

Transportation of our staff to wind turbine generators (WTG)



Highest possible quality images of WTG blades taken by drone



Spot check of images by blade expert



AI-enabled analysis and assessment of blades



Blade defect assessment report



Repair recommendations by blade expert



Blade repair recommendation report

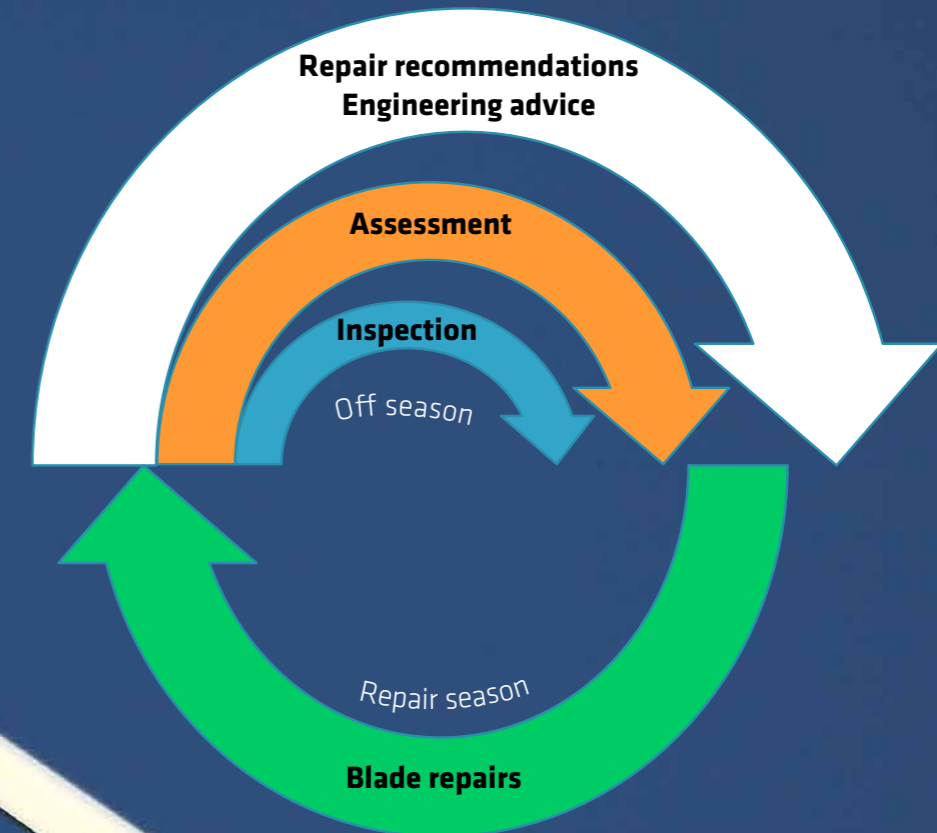


Engineering advice



The key take-aways:

- No weather risk
- Blade inspection, assessment and logistics in one service
- Flexible service, order when needed 365 days a year
- High quality delivered by market leaders



By aggregating tasks and wind turbines in scope for blade assessment, we can offer this cutting edge service at an attractive price, with no weather risk

	Inspection	Assessment	Repair recommendations	Engineering advice
Level 4	●	●	●	●
Level 3	●	●	●	
Level 2	●	●		
Level 1	●			

- Choose the best-suited option for you.
- It is possible to change and upgrade your service option at any time.



SAFETY & SUPPORT AT SEA

ESVAGT is a dedicated provider of safety and support at sea, and the leading innovative supplier of support solutions for offshore wind.

WIND POWER LAB

Wind Power LAB delivers independent blade defect assessments with predominant precision, enabling full season repairs and data driven blade maintenance.

EWPL Ocean

The joint venture between ESVAGT and Wind Power LAB combines best-in-class skills within Sea, Safety, Logistics, Drones, AI and Blade Expertise

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