Service type
Blade repair and inspection

Project introduction
Rope access blade repair and LPS work on 51 wind turbines

Location
Norway

FairWind

Case study

High-quality rope access blade repair in Norway's rugged terrain

Project summary

- Rope access blade repair and inspection on 51 wind turbines with LM Wind Power blades
- Full internal and external inspection scope, including lightning protection system (LPS) checks
- Two-year project duration with weekly monitoring of internal blade damage
- On-site presence: 10 technicians and one site supervisor
- Weather-related delays and logistics overcome through forward planning and flexible resourcing
- Full safety and legal compliance, adhering to local regulations.

Detailed scope of work

FairWind was responsible for carrying out comprehensive inspection and repair on 51 wind turbines equipped with LM Wind Power blades. The scope included both internal and external blade inspections, LPS checks, and the implementation of temporary and permanent repairs where necessary. The project also required weekly monitoring and detailed documentation of internal blade damage to ensure ongoing asset integrity.

To maintain project continuity and quality, a dedicated on-site team of 10 rope access technicians and one site supervisor was deployed for the entire duration of nearly two years. All activities were performed in accordance with Global Wind Organisation (GWO) standards, client-specific HSE protocols, and strict local regulatory requirements.

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Challenges faced

- **Weather constraints**: harsh and unpredictable conditions regularly delayed external blade work
- **Resource limitations**: recruiting certified, experienced technicians was challenging due to the niche skill requirements
- **Logistics**: importing materials into Norway required advance planning, with lead times of 2–3 weeks.

Results

- Smooth, safe, and consistent operations over the project period
- Zero incidents recorded to date
- Strong site relationships helped maintain communication and workflow.

Fairwind's blade services

Our dedicated blades department offers complete turnkey solutions, with capabilities to undertake mounting and retrofitting aerodynamic upgrades on the blades, as well as performing both surface and complex structural repairs, managing your project seamlessly from start to finish. Identifying damaged blades as early as possible allows repairs to be planned, minimising downtime of your assets.

Our IRATA qualified technicians can carry out work via rope access or via our SQYflex platform.

Our decade of expertise in blade work covers:

Blade inspection
- Condition monitoring and reporting
- Inspections can be performed with drones or via rope access, depending on requirements.

Mounting of aerodynamic modifications and upgrades
- Vast experience of retrofitting aerodynamic enhancing components on numerous blade types.

Structural blade repairs
- Restoration and measurement of lighting protection systems
- Competencies to repair complex structural blade damages.

Pictured opposite
Blade repair

For more information, please contact
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