

# FairWind

## Case study

# FairWind North America uses expertise to deliver lift maintenance

### Service type

Lift maintenance

### Project introduction

Maintenance and overhaul of Avanti lift systems

### Location

Silver Star wind farm, Texas, North America



## Project summary

- **Preventive maintenance:** overhaul of Avanti man-riding lift systems for optimal performance and safety
- **Initial inspection:** visual assessment to identify defects and wear
- **Function testing:** manual and automatic mode checks for reliability and compliance
- **Overhaul and repairs:** replacement of cables and drive assemblies to restore functionality
- **Safety enhancements:** re-installation of tensioning springs and counterweights for balance
- **Final testing:** verification of lift stops and limit switches to ensure full operation.

## Detailed scope of work

FairWind executed a comprehensive maintenance and overhaul of Avanti man-riding lift systems to ensure optimal performance and safety. The project began with a preliminary visual inspection of all man-riding systems to assess their current condition and identify any visible defects or signs of wear.

This was followed by thorough function testing in both manual and automatic modes to verify operational reliability and compliance with safety standards.

The team then carried out the overhaul and, where necessary, the replacement of cable installations and drive assemblies to restore full functionality and enhance system durability. Critical safety

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components, such as tensioning springs and drive cable counterweights, were re-installed to maintain proper system balance and operational safety.

To conclude the maintenance process, final function tests were conducted, including the verification of lift stops and limit switches, to confirm the systems were fully operational and ready for use.

### Results

- Successfully restored damaged and inoperable lift systems through annual maintenance, ensuring safe future operations
- Implemented engineered safety measures, significantly reducing injury risks for personnel and equipment
- Ensured regulatory compliance through fast mobilisation and efficient service execution.

#### Pictured opposite

1. Avanti man-riding lift system
2. Our technicians on site
3. Silver Star wind farm, Texas.

## FairWind's preventive maintenance services

At FairWind, we specialise in delivering scheduled maintenance solutions tailored to your specific requirements. Whether you need a maintenance programme or support with outsourced maintenance tasks, we have the expertise to service most turbine types efficiently.

Our preventive maintenance services include:

- Execution of scheduled service programmes customised for each turbine type
- Bolt re-tightening to ensure structural integrity
- Statutory inspections to maintain compliance and operational safety
- Inspection and servicing of high-voltage equipment.

With a proven track record in preventive maintenance, we help maximise turbine performance, minimise downtime, and ensure long-term reliability.

For more information, please contact  
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