

FairWind

Case study

Installing wind power against the Nordic Winter

Client
SGRE

Service type
Onshore installation

Project introduction
Onshore installation of 22 Siemens Gamesa turbines in Finland

Location
Niinimäki wind farm, Finland

Project summary

- Installation of 22 Siemens Gamesa SG 6.6-170 T165 turbines, each with eight tower sections
- Pre-assembly to final installation was completed within a timeframe of six months
- Two shift operations for installation and one shift for internal finishing.

Detailed scope of work

FairWind was responsible for installing 22 Siemens Gamesa SG 6.6-170 T165 turbines at the Niinimäki wind farm in Finland. The project required careful coordination, working in two shifts to ensure an efficient installation process while maintaining high safety standards. Internal finishing work was managed in a single shift to optimise workforce utilisation.

Despite the complex logistics of handling eight section tower assemblies, the team successfully completed the first phase of the installation project. Adverse weather conditions were mitigated through strategic planning and on-site adaptability.

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Challenges faced

- **Weather conditions:** harsh winter conditions and strong winds posed significant challenges to scheduling and execution
- **Logistical complexities:** managing the transport and assembly of large turbine components in a remote location required meticulous planning
- **Workforce coordination:** ensuring seamless collaboration between different teams working in shifts was crucial to maintaining efficiency
- **Safety considerations:** maintaining high safety standards while working at height and in extreme weather was a top priority.

Results

- Efficient execution of the pre-assembly and installation process
- Maintained safety and quality standards throughout the project
- Successfully completed phase one of the installation within the scheduled timeframe.

FairWind's onshore installation services

We get involved in the project from an early stage – working on projects all over the world means we know how to minimise risk and optimise the planning of installation projects.

With more than 16 years' experience in onshore installation we deliver a comprehensive range of services:

- Engineering of installation concepts
- Consultancy and optimisation
- Full scope installation projects on lump sum prices
- Craning of wind turbine components
- Transport coordination of wind turbine components
- Loading / unloading and receiving
- Cable works and testing
- Painting and fibre work
- Installation and commissioning of service lifts
- Team transfers planning and evacuation
- Inspections and QA work
- HS&E management
- Site management
- Pre-assembly activities
- High and medium voltage work.

For more information, please contact
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