

FairWind

Case study

Horizonte wind farm installation – Chile's largest wind project

Client

Enercon

Service type

Onshore installation

Project introduction

Onshore installation of 140 Enercon turbines

Location

Horizonte wind farm, Chile

Project summary

- 140 Enercon E-160 EP5 E3 turbines
- 778 MW total capacity – largest in Chile
- One pre-installation crane and four main cranes operating in double shifts
- Complex logistics and international coordination in remote conditions.

Detailed scope of work

The Horizonte wind farm, located in Chile's Atacama region, is currently the largest wind energy project in Chile and among the largest in Latin America, with a total capacity of 778 MW. FairWind was contracted by Enercon to support the installation of 140 E-160 EP5 E3 wind turbines across the expansive and remote site. The project required extensive logistical coordination of approximately 300 FairWind personnel, including technicians, installation coordinators, and project managers.

Challenges faced

- Remote site logistics and complex supply chain coordination
- Harsh environmental and climatic conditions impacting installation timelines
- Large-scale team management and equipment scheduling across multiple shifts
- Cross-cultural collaboration with international stakeholders and partners.

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Results

- Successful installation of 140 wind turbines
- Major contribution to Chile's largest wind energy project and one of Latin America's most significant renewable initiatives
- Strengthened FairWind's reputation as a reliable partner for large-scale, high-complexity projects.

Estimated impact

- **Power supply equivalent:**
~700,000 households
- **Annual CO₂ emissions reduction:**
~1.2 million tonnes.

Sustainability alignment

The Horizonte wind farm directly supports Chile's national decarbonisation goals and contributes to global renewable energy targets.

FairWind's participation in this project underscores our commitment to advancing large-scale sustainable infrastructure and accelerating the global clean energy transition.

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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