



Microwave backhaul and telco services in remote rural Australia

Connecting remote Renewable Energy Site requiring stable, reliable & speedy installation for Acciona Group's Macintyre Wind Farm Construction.

The Customer

Acciona is a Spanish Multinational Conglomerate leading in Renewable Energy Plantations. Rooted in a merger of MZOV (1862) and Entrecanales y Tavora (1931), Acciona operates through four core groups: Infrastructure, Energy, Water, and Other Businesses. Acciona Energy achieved a milestone, producing 21 Terawatt-hours of renewable electricity in October 2020. Listed on IBEX 35, Acciona employs 30,000 professionals across 30 countries, driving global sustainable progress, including Australia.

The Challenge

In the remote expanse of Queensland, Australia, Acciona Construction grappled with monitoring power output and providing internet access for their Macintyre Wind Farm. With a team in Spain overseeing operations, remote monitoring was a challenge. The case showcases how innovative technologies and strategies can conquer geographical barriers, to ensure optimal wind farm performance in a remote location.

The Solution

Acciona Construction faced a significant communication challenge at the remote Macintyre Wind Farm site. To tackle this issue, they enlisted the help of Wave1 Pty Ltd, a trusted collaborator from previous projects. Given their successful track record, Acciona believed Wave1 could devise a solution for this complex problem.

Through a collaborative effort between Acciona Construction and Wave1 Pty Ltd, a reseller of Intracom Telecom in the continent, a highly functional communication network was established at the Macintyre Wind Farm construction site.

Case Summary

Customer

- Acciona Construction

Industry

- Renewable Energy

Region

- Australia

Challenge

- To offer 5G communications directly to site
- Closest Node over 50 km away
- No electricity onsite during construction stage.

Solution

- UltraLink™-FX80
- OmniBAS™
- OmniBAS™-BX
- StreetNode™ V60-PTP
- Solar Shelter, Monopoles and Electricity Connection at Tower Connection Site and NBN Internet Connection Services. Remote Monitoring Services and Onsite Disaster Recovery Insurance)