



Renewable Energy Capability Statement

FULL LIFE CYCLE EXPERTISE IN RENEWABLE ENERGY

Woolpert is a global leader in architecture, engineering, and geospatial (AEG) services with over 3,000 professionals worldwide. We harness the power of technology and data to deliver comprehensive solutions for solar, wind, and energy storage projects.

With over 60 years of experience in the Asia-Pacific region, we have been driving energy projects and leading the transition toward renewable energy. Our geospatial expertise empowers the full renewable project life cycle, from planning and feasibility through development, operations, and decommissioning.

Our geospatial solutions provide the critical insights that empower the region's leading renewable energy providers, supporting smarter decisions and enabling the development and operation of major solar, hydro, and wind projects across the Asia-Pacific.

VALUE WE DELIVER

Whether you're launching a single renewable energy project or scaling a portfolio, Woolpert delivers measurable benefits:

- Accelerated project timelines
- Reduced operational costs
- Minimised delivery risks
- Intelligent site selection
- Regulatory assurance
- Future-ready planning
- Enhanced asset performance
- Transparent digital workflows
- Safer site operations
- Scalable portfolio solutions



SERVICES AT EVERY STAGE



Our geospatial expertise empowers the full renewable project life cycle, from planning and feasibility through development, operations, and decommissioning:



MAPPING

Benefit: Delivers high-resolution imagery and terrain models that provide clear insight for site selection and routing. Helps accelerate approvals and boost design confidence.

Expertise Areas:

- LiDAR (4-30ppm²)
- Elevation & Surface Models
- Orthomosaic $\geq 5\text{cm}$
- Vector Mapping
- Reality Mesh Models
- Slope Analysis
- Viewshed Analysis
- Stakeholder Montages
- Construction Monitoring

SURVEY

Benefit: Provides precise ground data for planning, access and compliance. Reduces rework and schedule risk across complex and remote renewable projects.

Expertise Areas:

- LiDAR (50-400ppm²)
- DEM/TIN
- Orthomosaic $\geq 2\text{cm}$
- 3D Feature Extraction
- SACMs | Lease Plans
- TLS | MLS | 360 Imagery
- KE Analysis
- Bathymetric Survey
- Dilapidation Surveys
- Construction Surveys

DIGITAL SOLUTIONS

Benefit: Transforms raw data into live web services, project portals and 3D visualisations. Speeds up decision-making and improves transparency.

Expertise Areas:

- Web Mapping Services
- Stakeholder Portals
- Digital Delivery

ADVISORY

Benefit: Aligns geospatial services to the project lifecycle and REZ frameworks. Supports early engagement, lowers cost of delivery and enables growth.

Expertise Areas:

- Land Acquisition
- DE Transition

Why leading renewable providers choose Woolpert

Our people, technology, and geospatial expertise empower renewable energy projects with rapid, flexible, and future-ready solutions across the full project lifecycle:

-  **Project lifecycle support:** We act as your geospatial partner from planning and feasibility through development, operations, and decommissioning, delivering the insights you need to make smarter, faster decisions at every stage.
-  **Faster turnaround:** Make quicker, data-driven decisions with automated cloud processing and AI-powered analytics, accelerating approvals, construction, and operational readiness.
-  **People-first safety:** 360° site visualisations and digital twins support safety inductions, site training, and ongoing operational awareness, helping teams stay secure and informed.
-  **Smarter site selection:** Leverage advanced geospatial analytics to identify optimal sites, reduce environmental and regulatory risks, and maximise long-term performance.

OUR PROCESS



Capture: We use a full range of geospatial technologies and platforms, including imagery and lidar from aircraft, drones and ground-based methods, to collect accurate data for every stage of your renewable energy project.

Process: Automated cloud-based processing ensures rapid delivery, getting data into the hands of stakeholders early so decisions can be made quickly and confidently.

Store: We apply advanced spatial analysis and algorithms to turn raw data into meaningful information and insights, supporting smarter planning and risk management.

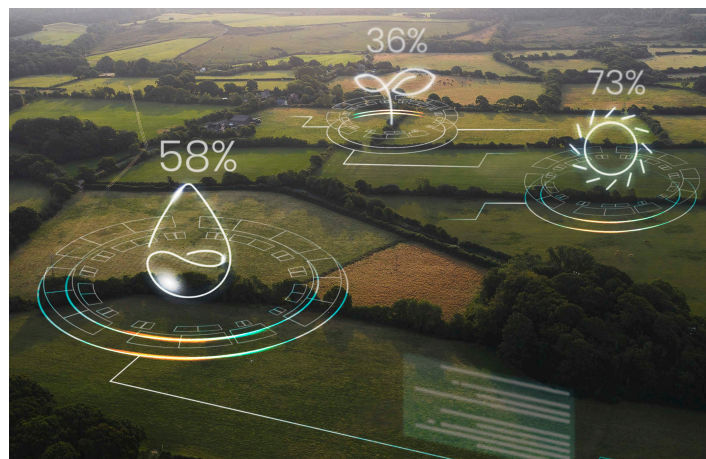
Share: Our experience in hosted and managed GIS solutions, both on-premise and cloud-based, means project teams and partners can access and use data whenever they need it.

BEYOND DATA CAPTURE

We provide advanced digital solutions that extend beyond traditional data transfers.

Our offerings include web services, project portals, and interactive 3D and point cloud analytics, enabling stakeholders without GIS expertise to access, interpret, and utilise spatial data effectively.

This approach enhances transparency, supports informed decision-making, and delivers sustained value throughout the project lifecycle.



FROM DATA TO IMPACT – CLIENT STORIES

Our geospatial solutions provide the critical insights that empower the region's leading renewable energy providers, supporting smarter decisions and enabling their development and operation:

Central-West Orana Renewable Energy Zone Client: EnergyCo

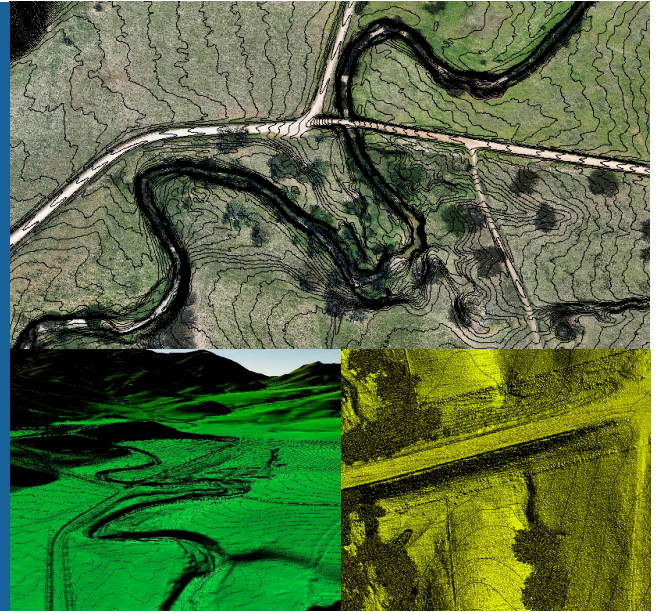


Overview

The Central-West Orana Renewable Energy Zone in NSW needed precise geospatial data to plan new energy infrastructure. Woolpert delivered aerial, terrestrial, and bathymetric surveys, including lidar and high-resolution imagery, across more than 2,000 square kilometres.

Outcomes

The integrated approach reduced costs, sped up delivery, and provided accurate data to support construction and operation, helping EnergyCo advance the region's renewable energy transition.



Captains Mountain Wind Farm Client: Vestas

Vestas

Overview

Vestas engaged Woolpert to deliver lidar and high-resolution imagery across the 180 square kilometre Captains Mountain Wind Farm in Queensland, providing detailed terrain and imagery datasets to support 3D modelling and construction feasibility planning.

Outcomes

The advanced processing and cloud infrastructure enabled fast, accurate data delivery, helping Vestas streamline planning, save time and resources, and progress the wind farm project efficiently.

CLIENTS WE WORK WITH

Vestas



EnergyCo



**SQUADRON
ENERGY**

NEOEN



origin

Transgrid