

Smarter Inspections. Safer Crews. More Resilience.



Ferntech supports energy providers, maintenance contractors and asset managers working across powerlines, substations, wind farms, solar installations and underground utilities.

Drone technology has moved from an emerging idea to business-as-usual. Teams now rely on aerial workflows to detect faults earlier, capture digital records, keep crews safe, and cover far more ground in less time.

By pairing proven DJI systems with local training, guidance and support, Ferntech helps you build efficient, safe and scalable inspection workflows that suit New Zealand conditions.

We Help You Solve:

- ▶ Costly downtime caused by slow or manual fault detection
- ▶ Safety risks when inspecting towers, poles, substations or structures
- ▶ Limited visibility into hard-to-reach areas
- ▶ Inconsistent or incomplete asset records
- ▶ Delays caused by incorrect GPS or as-built information
- ▶ Access limitations during storms or flooding

What You Can Achieve:

Powerline & Tower Inspections:

Capture detailed imagery of conductors, insulators and connections without climbing or shutting down lines.

Thermal Anomaly Detection:

Identify hotspots in lines, transformers, connectors or solar strings before they become critical failures.

Digital Records for Substations: Create accurate visual references of switchgear and critical assets to support maintenance and training.

Wind Farm Monitoring: Inspect blades and turbine structures with thermal sensors.

Solar Farm Inspections: Mapping of sites adds benefit through planning and construction monitoring. Use thermal drones to detect panel and string failures that can significantly affect output. Confirm faulty panels for warranty claims.

Improved Team Communication: Share real-world imagery instantly to help teams understand faults and plan repairs more effectively.

Emergency Access & Post-Event Assessment: Assess storm damage, flooded areas or inaccessible terrain without sending vehicles or people into unsafe environments.

Where It's Used:

- ▶ Overhead line inspections and routine maintenance
- ▶ Substation documentation and digital record keeping
- ▶ Scheduled asset surveys and preventative diagnostics
- ▶ Solar farm thermal inspections
- ▶ Wind turbine inspections and maintenance
- ▶ Post-storm or post-event visual assessments
- ▶ Mapping and verifying underground cable routes as built records



Why Energy Teams Choose Ferntech:

- ▶ Keep crews safe with no-climb inspections
- ▶ Save time with fast asset visualisation
- ▶ Spot thermal faults before failure
- ▶ Capture clear evidence for audit and compliance
- ▶ Local advice, training and support when you need it
- ▶ Trusted DJI servicing and repairs



What You Get with Ferntech:

- ▶ Tailored advice on drone and payload selection
- ▶ Training and onboarding for safe, repeatable workflows
- ▶ Guidance on flight planning, thermal and visual payload use, and data handling
- ▶ Ongoing technical support, servicing and repairs
- ▶ A long-term partner invested in your operational capability



"Ferntech have been trusted partners in our drone programme from day one. Their experience in drone operations within the electrical supply industry has been invaluable. They've supported us with technical expertise and delivered practical onsite training for our team."

Robbie Skerten - MainPower



Plan Smarter Inspections Today

Book a discovery call with one of our drone experts

www.ferntech.co.nz/contact