

Accelerating Solar Compliance Inspections Across New Zealand

How a national solar inspection provider used Telepresenz® Smart Ops™ to cut reporting time by 80%, double inspection throughput, and improve data consistency across thousands of distributed sites.



80%

Faster reporting — inspections completed and submitted on the same day



100%

Data accuracy — standardized workflows eliminate manual errors



100%

Safety and compliance visibility — every task traceable through live video

Client: Confidential National Solar Inspection Provider

Industry: Solar Energy / Field Inspections

Scale: Thousands of inspections annually nationwide

Worker Environment: Technicians operating in full PPE under varying conditions at distributed solar sites

IT Environment: Secure public cloud deployment for field data sync and report automation

Devices: iPhones and Vuzix M400 hands-free wearables for technicians; desktops for post-inspection review and reporting

The client, a leading solar inspection contractor in New Zealand, performs thousands of periodic certification inspections each year to comply with government regulations. Each inspection requires precise procedures, high-definition imagery, and detailed reporting. However, manual documentation and inconsistent report formats were creating bottlenecks that limited throughput and introduced quality gaps. Inspectors often spent more time writing reports than performing the actual inspections. With teams working in PPE and under safety restrictions, capturing visual evidence and maintaining communication with office-based experts was difficult. As a result, the organization struggled to scale operations while maintaining regulatory compliance and quality standards.

“Our technicians were spending more time writing reports than inspecting — and that was our biggest growth constraint.”

Solar Inspection

Solution: Telepresenz® Smart Ops™ for Digital Inventory Management and Remote Inspections

To streamline operations, the company deployed Telepresenz® Smart Ops™, integrating guided workflows and remote collaboration into its inspection process.

Field inspectors now use their iPhones or Vuzix M400 hands-free wearables to follow digital checklists, capture photos and videos in sequence, and record notes via voice input. Office-based experts can join live video sessions to verify findings or assist with complex procedures — eliminating the need for follow-up visits.

All inspection data syncs automatically to the cloud, where Smart Ops™ auto-compiles structured reports with timestamped photos and comments. This eliminated manual report writing altogether and ensured consistent, standardized outputs across the team.

"What used to take half a day to document is now completed on-site before we leave the facility."

With Smart Ops™, the contractor cut average report completion time by 80% — from 3– 4 hours to under 30 minutes. Inspection capacity per technician doubled, allowing more sites to be covered daily without increasing headcount.

The platform ensured 100% consistency in image capture and procedural documentation, enabling immediate report submission and reducing quality variations across teams. Safety also improved, as technicians could operate hands-free in PPE while remaining connected to remote experts.

Key Outcomes:

- 80% faster report generation and submission
- 2× greater inspection capacity per technician
- 100% standardized inspection data and photo capture
- Improved safety through hands-free operation and live remote guidance
- Higher customer satisfaction due to same-day report delivery

"Clients now receive their reports the same day — and our technicians finish safer and faster than ever before."

About Telepresenz®

Telepresenz® — AI-Powered. Frontline-Focused. Future-Ready. Telepresenz connects inspectors, engineers, and administrators through real-time collaboration and AI-powered operational workflows. With Smart Ops™, aerospace teams gain digital control over inspections, inventory, and compliance — turning complex maintenance programs into seamless, transparent, and efficient operations.