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## CASE STUDY

### Utilities



## Autonomous Inspection and Intelligent Monitoring Solution for Electrical Substations

Implemented in Chile

### Challenge:

Perform frequent inspections in critical and high-risk environments by reducing reliance on manual activities, enabling early detection of operational deviations, lowering the time and cost of on-site inspections, and increasing personnel safety in electrical areas.

### Solution:

- Implemented autonomous robotics for daily inspections in electrical substations, without direct human intervention.
- Enabled continuous monitoring of operational measurements for automatic deviation detection.
- Generated alerts and service tickets for investigation and remote action when applicable.
- Integrated information into a centralized monitoring dashboard.

## Benefits:



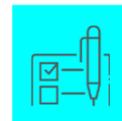
**Automation of substation inspections**, increasing operational efficiency and reducing reliance on manual activities.



**Significant reduction in time, costs, and resources** associated with on-site inspections.



**Enhanced operational safety**, minimizing personnel exposure to critical and high-risk electrical environments.



**Real-time visibility and control**, with data, KPIs, and alerts integrated into a centralized dashboard, enabling scalable, reliable, and data-driven operations.

**Tags:** Utilities; Energy; Autonomous Robotics; Remote Inspection; Intelligent Monitoring; Electrical Substations; Operational Automation; Operational Safety; IoT.