

Intelligent Infrastructure Monitoring



Operational Efficiency and Effectiveness

Utility Substations

Objective

Maximize the efficiency and effectiveness of field maintenance teams.

Challenge and Market

To accommodate our growing world, demand is mounting to maintain critical infrastructure, and utilities are under pressure to increase their operations. In addition, resources to maintain those infrastructure sites are dwindling as more than a third of the country's 400,000 electric utility employees are headed for retirement.

How It's Done Today

Today infrastructure maintenance teams respond to failures in equipment reactively or perform inspections on a scheduled basis. Sometimes these manual inspections can take hours on top of drive times and conflicting priorities, allowing for only one to three inspections a day. These current approaches drive up operational cost, which can domino into other issues and hold back appropriate technicians from performing critical work where they are needed most.

How Technology Will Address the Challenge

With Hitachi Intelligent Infrastructure Monitoring solution, you can monitor your equipment virtually, from anywhere. You can perform inspections as frequently as needed for various pieces of critical infrastructure, such as transformers, gauges, circuit breakers, and more. This alleviates operational team drive time and allows your truck rolls to focus only on challenges that require their immediate attention.

Solution

Hitachi Video Analytics, Hitachi Visualization Suite, Hitachi Video Management and Hitachi Smart Cameras, Thermal Cameras.

Smart Spaces and Lumada Video Insights

Benefits



Improve customer satisfaction.



Increase inspection frequency of gaining equipment.



Improve capital expenditure forecasting.



Improve maintenance effectiveness and efficiency.



Implement proactive maintenance procedures.



Reduce carbon footprint by minimizing truck rolls.



Enable overall reduction in operation and maintenance expenses.



Support just-in-time materials management, and so forth.