



NV5



ELECTRIC UTILITIES

**ACQUIRE
ANALYZE
ANSWER**

NV5 EDGE

We are at the forefront of using geospatial intelligence to help utilities deliver safe and reliable electric service. We have more than two decades of experience providing industry-leading geospatial services to dozens of utilities across North America.

COMPREHENSIVE SERVICES

Our end-to-end capabilities extend from acquiring accurate, high-quality geospatial data to its analysis and visualization using custom viewers and enterprise GIS. We've worked closely with our clients to develop unique solutions across the lifecycle of a facility - from transmission line siting to vegetation management to engineering as-builts for maintenance and asset data management.

POWERFUL ANALYTICS

Our expertise is answering the questions that matter most to utilities. What is the optimal route for a new transmission corridor?

Which trees are too close to the lines? Where are the flooding and landslide hazards? The insights we provide help utilities plan for growth, streamline operations, mitigate risk, and maintain compliance.

INNOVATIVE TECHNOLOGIES

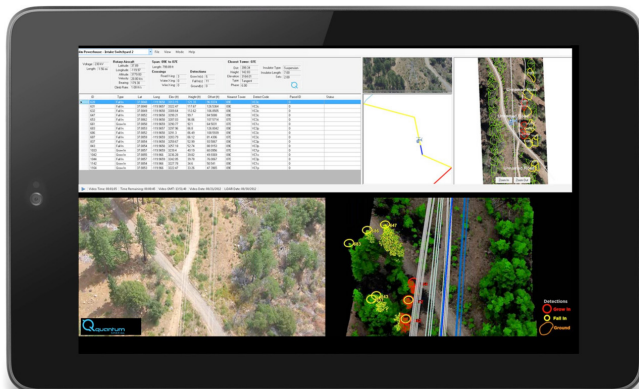
Our cutting-edge web and mobile applications like INSITE help utilities turn geospatial data into better business outcomes. Using our visualization and decision support tools, managers from multiple departments can readily access and act on geospatial information. We also have extensive experience managing, integrating, and developing GIS systems.

SELECT CLIENTS

Consumers Energy
Doyon Government Group
Duke Energy
Georgia Transmission Corporation
Lower Colorado River Authority
Manitoba Hydro
Oncor
Pacific Corp
Pacific Gas & Electric
Pepco Holdings, Inc.
Portland General Electric
San Francisco Public Utilities Commission
Tennessee Valley Authority

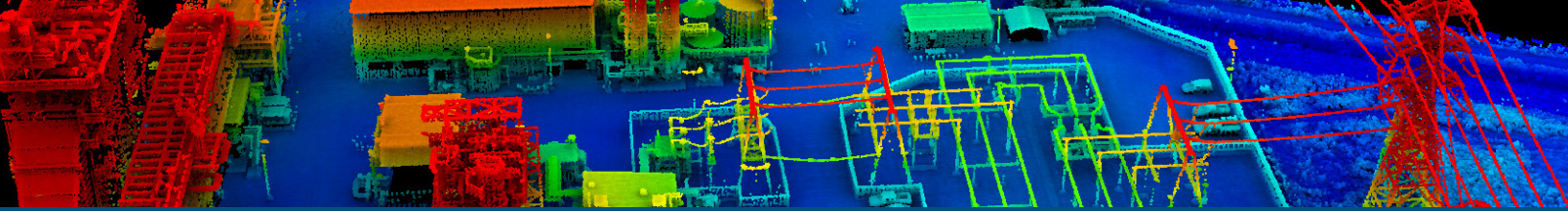
SERVICES

Lidar Analytics
Annotated HD Videography
PLS-CADD Modeling
Vegetation Clearance Analysis
Transmission Line Siting
Hydroelectric Facility Models
Geologic Hazard Studies
Dashboard 4D Visualization
Web & Mobile Apps
Enterprise GIS
Managed Services
Geospatial Program Management



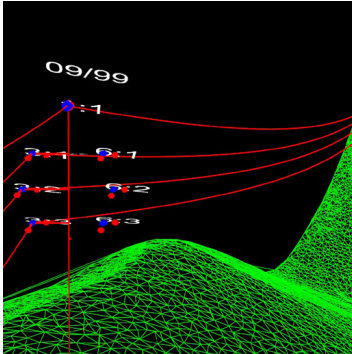
Walk the line without leaving the office.

Dashboard 4-D is an interactive viewer that integrates lidar analytics, full-motion HD video, orthophotography, and GIS layers for a comprehensive visual of transmission and distribution assets.



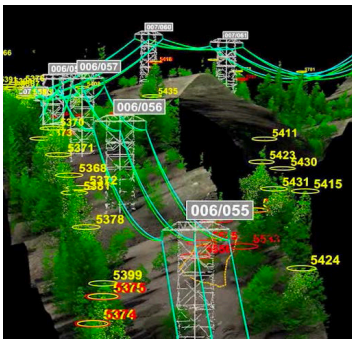
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APPLICATIONS



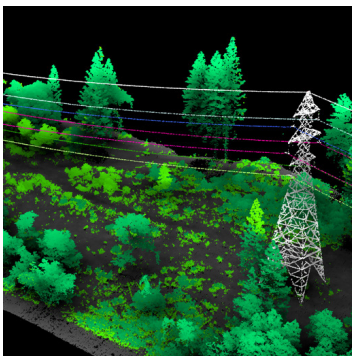
TRANSMISSION LINE MODELING

NV5 has modeled thousands of miles of transmission lines for NERC compliance, reconductoring, and emergency response. Our 3D transmission line models allow utilities to manage operations with greater flexibility, precision, and insight. Decision-makers can even take “desktop line walks” by using Dashboard 4-D to get an accurate, multi-dimensional view of all utility assets, roads, buildings, and vegetation in the transmission corridor.



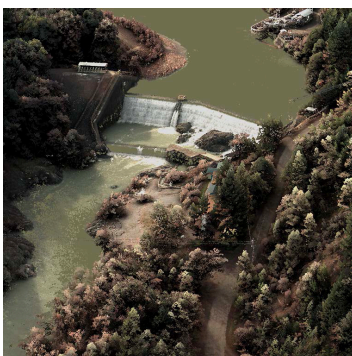
VEGETATION MANAGEMENT

NV5 pioneered the application of geospatial analytics to utility vegetation management, establishing a more reliable and efficient way to pinpoint ROW encroachments. By identifying “grow-in” and “fall-in” hazards, we help utilities make more informed decisions about when and where to deploy clearing crews. Clients realize significant cost and time savings over physical inspections and reduce safety and outage risks.



TRANSMISSION SITING

As a co-developer of the EPRI/GTC siting methodology, NV5 has unmatched expertise in helping electric utilities site new transmission lines. We work with transmission developers and consultants to identify suitable routes based on environmental, engineering, community, and other considerations. We have completed hundreds of siting projects in eight states and three countries.



HYDROELECTRIC FACILITIES

Our geospatial solutions help utilities comply with FERC requirements and ensure the safe operation of hydroelectric dams. Our engineering-grade 3D models are ideal for viewing as-built infrastructure conditions as well as the surrounding terrain and vegetation. In support of Hazard Dam Classification, we also create dam failure inundation models to help emergency managers assess and respond to flood risks.