Quantum Spatial is 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 the acquisition of 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 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  
Georgia Transmission Corporation  
Lower Colorado River Authority  
Manitoba Hydro  
Oncor  
PacificCorp  
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 Mgmt
Electric Utilities

APPLICATIONS

**Transmission Line Modeling**
Quantum Spatial 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**
Quantum Spatial 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, Quantum Spatial has an 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.

Quantum Spatial is the go-to partner for organizations that want to map, model, and better manage their world. Our end-to-end geospatial services deliver the geographic insights that advance business and government goals.

Quantum Spatial was formed through the merger of AeroMetric, Photo Science, and Watershed Sciences. Now North America’s largest geospatial services firm, we offer an unmatched level of service and support thanks to our national coverage, broad capabilities, impressive equipment resources, and deep experience across client markets.

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