

Grid Transformation and Digital Advancement

Build a Better Grid



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We Get It!

As an electric utility operator, you face shifting electricity demands, cybersecurity threats, extreme weather, and regulatory pressures. Pair these challenges with managing, understanding, and analyzing the vast amounts of data related to complex energy grids—can you say data overload?

You need a digital solution to help manage this complexity. That's why we built the SPIDA utility structure management solution. Target grid challenges and improve your overhead utility asset management strategy to build a better grid.





Modern, Adaptable Tools to Prepare for Tomorrow's Networks



You can and you will.



Meet SPIDA: Prepare Now for the Challenges and Changes of Tomorrow

The next-gen grid is coming fast. To manage today's assets in preparation for tomorrow's networks, you need a digital and scalable solution to build long-term strategies, achieve cost-efficiency, and streamline asset health.

There's a better way to manage the complexity of your overhead infrastructure.

With Bentley's SPIDA applications, you can create a digital twin of your utility overhead systems and manage it from a centralized portal, making it easy to coordinate new engineering line design, pole loading, and analysis.





With Multiple Tools in One Platform, SPIDA Can Help You...



Prepare for Storms and Increase Climate Resiliency

Extreme weather conditions are escalating outages at an alarming rate. Identify structures at risk to make better decisions and strategic investments for a more resilient grid.



Improve Reporting and Stay Compliant

Regulatory oversight is increasing, and the spotlight is on safety. Improve your reporting and develop comprehensive asset management policies to maintain a defendable engineering practice.



Prepare for 5G

Access to high-speed internet is in demand. Gain a strong lead in the race to provide broadband and 5G access to remote and underserved areas while staying compliant with complex and changing policies.



Navigate Workforce Changes

Industry challenges like these don't fix themselves. Empower your team with a centralized platform that can be used across departments in your organization.

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Engineering Line Design

When building a new pole line, you need to do it quickly, compliantly, and on budget. Create a digital twin of utility overhead systems to ease the process of modeling, analyzing, and optimizing overhead assets.

Interactive 3D Modeling

Quickly create overhead designs using intuitive drag-and-drop functionality, interact with a live 3D view, or design an entire pole line at once directly on the map.

Powerful Geometric Nonlinear Analysis

Analyze an entire project by sending it to the cloud while simultaneously allowing users to continue working. You can analyze thousands of complex poles in a matter of minutes.

Scalable Clearance Evaluations

Define tension by sag and temperature, generate wire sag charts and detailed tension reports, and ensure compliance with maximum wire tension checks in all weather conditions.







Pole Attachment Coordination

Whether you're a pole owner or a broadband provider, you're probably familiar with the joint use of pole assets and the chaos that comes with it. Break out of the reactive cycle and improve your pole attachment coordination.

Interdepartment Communication

Coordinate with the entire team, contractors, and outside agencies to ensure everyone is on the same page with real-time access to project updates and asset details.

Robust Reporting

Simplify complex data and monitor business processes at a glance. Create robust reports to make real-time, data-driven decisions.

Simple, Flexible Integration

Integrate with existing enterprise systems and reporting tools such as GIS and work management systems. Automate tedious tasks and view key metrics at a glance.



Infrastructure Analysis

As the world continues to experience extreme and unprecedented weather events, utilities are pressured to modernize the grid as quickly as possible. As you plan for the grids of tomorrow, make data-driven decisions regarding your overhead system.

Review Conditions Remotely

Save time and remove guesswork by reviewing the existing infrastructure conditions without going into the field.

Pole Deterioration Data

Utilize pole deterioration data from inspections to paint a more realistic picture of your overhead asset health.

Time-differential Data

Resolve discrepancies with third-party records and coordinate smooth pole transfers between utilities and attachers.









What SPIDA is Doing for Engineers Like You

We knew the regulatory requirement for non-linear analysis was coming, and our two-dimensional spreadsheet tool was not going to cut it. We tried another well-known pole analysis software tool but quickly discovered it was not user-friendly. SPIDAcalc make it very easy to enter the data, and with the 2D and 3D views, we can see with a glance that it's entered correctly.

– Dan Micallef, Engineering Technologist, Utilities Kingston



- Jacob Barlow, Senior Project Engineer, Randolph Electric Membership Corporation



Partnership for Success

About SPIDA

SPIDA Software is the enterprise solution provider that utilities, telecommunications companies, and contractors use to design, analyze, and manage their overhead assets. Structure management with SPIDA helps organizations build safe and resilient grids and provides a path forward so that instead of reacting to each crisis as it happens, you can build long-term strategies that prioritize your overhead asset investments.

Request a Demo

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