



PowerEdge MAINTAIN®

“Maintaining power lines, preserving performance”

Efficient and reliable power line and substation maintenance is critical in ensuring uninterrupted energy supply and extending the lifespan of power infrastructure. **PowerEdge Maintain®**, a specialised division of Silver Spectrum Solutions, provides drone-based power line and substation maintenance services designed to preserve performance, improve safety, and reduce operational costs.

Our continually developing new innovative solutions leverage cutting-edge drone technology and custom methodologies to perform precision tasks like live spray cleaning and hydrophobicity measurements. These solutions are a direct result of our active R&D program and being attentive to our clients needs. We have several other solutions in development. With **PowerEdge Maintain®** you can ensure optimal productivity, enhanced performance and the long-term sustainability of your assets.

- **Spray Washing:** High-precision drone washing systems for removing contaminants on live high voltage equipment such as transformer bushings and polluted glass insulators.
- **Insulator Hydrophobicity:** Advanced drone-mounted equipment is able to assess composite insulator hydrophobicity as well as apply advanced coatings to glass insulators to improve performance in contaminated situations. With these specialised services, we ensure extended power line life and optimal conductivity.

Live Spray Cleaning

Our **Spray Washing** solution utilises high-precision drone washing systems to effectively remove contaminants from critical infrastructure. This advanced, contactless method ensures thorough cleaning while minimising downtime and maintaining operational efficiency.





Hydrophobicity Assessments

Our custom developed drone solution is able to conduct live composite insulator or bushing assessments in accordance with IEC 62073. With these specialised services, we ensure extended plant life and improved performance. Our experienced team will be able to deliver actionable reports with a same-day turnaround time.



Key Benefits of PowerEdge Maintain

- **Extended Power Line Lifespan:** Regular cleaning of polluted insulators improves performance ensuring your assets remain operational for longer and reduces power system faults.
- **Minimal Downtime:** Drone-based systems complete maintenance tasks quickly, reducing disruption and improving plant availability.
- **Sustainability:** Our maintenance techniques reduce water and chemical usage, promoting environmentally friendly practices.
- **Real-Time Reporting:** Instant data collection and analysis provide actionable insights to prioritise maintenance and allocate resources efficiently.

Preserve Performance with PowerEdge Maintain®

With **PowerEdge Maintain®**, you gain a trusted partner dedicated to maintaining and enhancing the performance of your power infrastructure. Our unique drone-based maintenance services ensure every line is clean, every surface is optimised, and every connection is reliable.

Let us help you extend the life of your power assets and secure the reliability of your operations. **PowerEdge Maintain® – Maintaining power lines, preserving performance.**

Contact us for more information

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