More inspections. More intelligence.

BrightAI for Power Grid
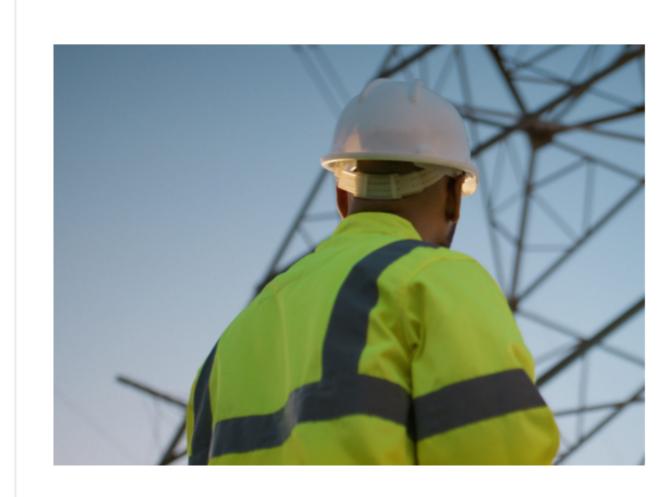
AI-Powered Inspection for Power Grid Operations

"BrightAI's innovative approach with Stateful OS is a game-changer for us. It addresses our real-world challenges, from automating operations in the field to unlocking new business with autonomous inspections. Stateful OS truly unlocks the art of the possible, transforming the power grid inspection industry."

Mike Adams, CEO, Osmose Utilities Services

Challenge

Today's power grid is typically inspected only once every 10 years, leaving critical infrastructure vulnerable to emerging threats. BrightAI's innovative AI solutions radically change the economics and operations of power grid management, enabling more frequent inspections and unlocking grid-wide visibility and intelligence. By partnering with Osmose Utilities Services, BrightAI will deliver autonomous systems and workforce AI tools needed to take proactive actions, mitigate extreme weather threats, and prevent power outages.

Solution

Leveraging autonomous inspection systems and multimodal edge AI, Stateful OS will enable real-time, comprehensive inspections across vast networks. This technology increases power grid inspection productivity, quality and safety, while empowering utilities to respond swiftly to threats and ensure uninterrupted power delivery.

Business Impact

Efficiency

Increases inspection frequency and efficiency.

Savings

Reduces downtime and maintenance costs.

Resilience

Enhances safety and increases power grid resilience.

What We Enable

Monitor: Autonomous drones equipped with advanced sensor packages will provide large-scale, higher-frequency grid inspections, identifying potential risks in real time.

Diagnose: AI-powered analytics will detect defects and optimize inspection schedules by correlating field data with historical trends.

Act: Wearables and copilots will guide field teams with real-time data and AI-driven insights, enabling faster repairs and proactive maintenance.

What We Deliver

Autonomous Drone Inspection System: Conducts efficient, large-scale grid inspections with AI-driven defect detection and real-time data collection.

Workforce AI Wearables: Hands-free devices automate field data collection and provide real-time AI guidance, improving productivity, safety and efficiency.

Copilot: Offers field teams hands-free access to data and expert guidance, powered by Stateful OS, with an evolving knowledge graph.

The Future

BrightAI's autonomous inspection systems will expand nationwide, integrating fixed-wing drones and real-time AI capabilities by 2026. This evolution will deliver comprehensive, proactive grid management, further improving safety and cost-effectiveness.