

# Huawei: Automation, Digitalization, and AI as Key Drivers for Modernizing Power Grids

Category: Business

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In 2025 alone, more than 10 major power outages disrupted electricity supplies worldwide, affecting over 1.2 billion people. Ensuring system stability has remained a top priority for global power companies.



**Jason Li, President of Global Marketing & Solutions, Electric Power Digitalization BU, Huawei**

Stability is not their only concern, however; the drive toward carbon neutrality is accelerating the adoption of renewable energy and electrification. Integrating large amounts of new energy sources and managing unpredictable new loads requires flexibility from power systems.

**Jason Li, President of the Marketing & Solution Sales Dept of Huawei Electric Power Digitalization BU**, explained that, *"In the past, we relied mostly on automation to address issues in power grids. In the future, however, power grids will transform from mere transmission systems into pivotal players in the energy transition. Digitalization and AI are shifting from optional upgrades to essential elements in core power generation. Together with automation, they form the key drivers for modernizing power grids."*

He added, *"We believe that deeply integrating digital technologies into power scenarios and reshaping production and operations with telecommunications and AI will enable grids to*

*achieve both ultimate stability and flexibility."*



## **Intelligent Electric Power Booth**

The large-scale integration of distributed PV, energy storage, and charging piles into the grid, coupled with growing user interaction and potential load-side transactions, presents new challenges for maintaining the balance, stability, and security of distribution networks.

*"The breakthrough for future power systems lies in the distribution network," Jason noted. "And the key to addressing distribution challenges is transparency at the 400 V low-voltage level. To achieve this, Huawei and partners have jointly developed the intelligent distribution solution (IDS)*

*for transparent low-voltage management."*

At Mobile World Congress 2026 in Barcelona, Huawei will showcase its latest AI applications in power digitalization, including innovative solutions for intelligent power distribution, substations, and power plant inspections. To explore successful digital transformation in the power sector, visit the Huawei booth at stand 1H50, Fira Gran Via Hall 1.

