

ADMS+ creating and managing the next generation of Distribution Networks

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Abstract

The key challenges in today's world of power distribution management are derived from an increasingly complex grid. This is because the share of Smart Metering and Demand Response is growing while the adaptation of distributed generation and energy storage inquires advanced solutions.

To this effect, Siemens has entered the next era of power control systems - Spectrum Power™ Advanced Distribution Management System (ADMS), the integration of Distribution SCADA, Outage Management and Advanced Fault and Network Analysis operated under a Common User Environment. It enables the user to monitor, control and optimize the secure operation of the electrical distribution network; efficiently manage day-to-day construction maintenance and repair efforts; and proactively and safely guide operators when needed most, i.e. during storms and outage-related restoration activities.

At the same time, it integrates the intelligent use of Smart Meter information and distributed resource (generation/load) regulating capabilities, as well as the potential of Microgrids. ADMS is rapidly becoming an essential element in maintaining and improving delivery reliability while reducing complexity and automating related work processes – therefore providing a solid foundation for the management of the emerging Smart Grid.