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Integrated Protection and Control System for Transmission & Distribution Substation

<Authors>

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<Abstract>

The introduction of the competitive principle into the power industry has also led to growing demands for more compact and cost-effective devices, while maintaining high levels of reliability and capability in the devices. To meet these requirements, Hitachi has developed new-type integrated protection and control system for transmission and distribution substations. It has human-friendly interface, high capability for system configuration, high performance and compatibilities with standard communication protocols such as IEC 60870-5-101, Ethernet-based IEC 60870-5-104, DNP3.0 and web-based remote access interface. In addition, the application of Ethernet-based communication can also create a system with information technology (IT) that will cope with future requirements.