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## Smart grid security challenges

The smart grid is comprised of power systems, communication networks and information technology (IT) to provide better power quality, availability and security. This dependency, expands the risk from cyber-attacks to information or data. It is not only from terrorist attacks, but also from customers and building authorities who can tamper with various devices. As security challenges mainly come from malicious cyber-attacks via communication networks, it is essential to understand potential vulnerabilities in the smart grid under network attacks. In this presentation, we review security issues such as integrity, availability, authenticity, and confidentiality which increasingly challenging in the smart grid.