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- 140+ active standards
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20+ standards named in the NIST Framework and Roadmap for Smart Grid Interoperability Standards

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## Critical standards activities for smart grid technology

This unique collection includes important standards from multiple disciplines, vital information for smart grid development:

### IEEE 80-2013™

IEEE Guide for Safety in AC Substation Grounding

### IEEE 81™-2012

IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System

### IEEE 487 Standards

IEEE Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations

### IEEE 802® LAN/MAN Standards

Select IEEE Standards developed by the IEEE 802 Local Area and Metropolitan Area Network Standards Committee

### IEEE 1127™-2013

IEEE Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility

### IEEE 1377™-2012

IEEE Standard for Utility Industry Metering Communication Protocol Application Layer (End Device Data Tables)

### IEEE 1547™ Standards

IEEE Standards that Define Physical and Electrical Interconnections Between Utility and Distributed Generation (DG) and Storage

### IEEE 1591.1™-2012

IEEE Standard for Testing and Performance of Hardware for Optical Ground Wire (OPGW)

### IEEE 1686™-2013

IEEE Standard for Intelligent Electronic Devices Cyber Security Capabilities

### IEEE 1701™-2011

IEEE Standard for Optical Port Communication Protocol to Complement the Utility Industry End Device Data Tables

### IEEE 1815™-2012

IEEE Standard for Electric Power Systems Communications—Distributed Network Protocol (DNP3)

### IEEE 1901 Standards

IEEE Standard for Broadband and Narrowband Power Line Networks

### IEEE 1905.1™-2013

IEEE Standard for a Convergent Digital Home Network for Heterogeneous Technologies

### IEEE 2030 Standards

IEEE Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation

### IEEE C37.95™-2014

IEEE Guide for Protective Relaying of Utility-Consumer Interconnections

### IEEE C37.118™ Standards

IEEE Standards for Synchrophasors for Power Systems

### IEEE C37.236™-2013

IEEE Guide for Power System Protective Relay Applications Over Digital Communication Channels

### IEEE C37.242™-2013

IEEE Guide for Synchronization, Calibration, Testing, and Installation of Phasor Measurement Units (PMUs) for Power System Protection and Control

### IEEE C62.39™-2012

IEEE Standard for Test Methods and Preferred Values for Self-Restoring Current-Limiter Components Used in Telecommunication Surge Protection

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