

MORE POWER TO THE FUTURE

# IEEE Industry Cooperation



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# Standards, Guides, & Reports to Address Emerging Industry Topics, including fast-tracking

## Tutorials and Webinars on Standards

- **IEEE Std. 1547** - Standard for Interconnecting Distributed Energy Resources
- **IEEE Std. C37.238** IEEE Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications
- **IEEE Std. C62.2** - Surge Protection of Power Systems
- **IEEE Std. 998** - Guide for Direct Lightning Stroke Shielding of Substations
- **IEEE Std. C122.4** Guide for Application and User Guide for Gas-Insulated Transmission Lines (GIL), Rated 72.5 kV and Above
- **IEEE Std. C37.122.6** - IEEE Recommended Practice for the Interface of New Gas-Insulated Equipment in Existing Gas-Insulated Substations Rated above 52 kV
- **IEEE 2030.5 (Smart Energy Profile 2.0):** An Overview and Applicability to Distributed Energy Resources
- **IEEE Std. C37.242** Guide for Synchronization, Calibration, Testing, and installation of (PMU) for power system protection and control

# Supporting & Partnering w/ Global Organizations

IEEE & U.S. DOE MOU to address grid modernization challenges

IEEE & FERC MOU to address energy infrastructure and market challenges

IEEE & NERC MOU to perform and promote regional and international standardization

IEEE & Ministry of Electricity & MOU to address reliability and resiliency challenges

IEEE & CIGRE MOU to encourage the exchange and dissemination of technical information and to promote cooperation

## Other Initiatives

- EU Commission
- State Grid China Corp MOU
- NA Transmission Forum MOU
- California PUC, etc.

## ***Technical Policy***

### ***Support Task Force***

- **Task 1: Standards and Interoperability**
- **Task 2: Technology**
- **Task 3: Conferences and Meetings**
- **Task 4: Education**

### ***Involvement by:***

**IEEE Standards Association**

**IEEE USA**

**IEEE Policy Committee**

**IEEE Smart Grid**

**Other IEEE Societies**

# Policy Technical Support Task Force Activities

- NERC – Report on Low Short Circuit Current Impacts on Grid Reliability
    - NERC developed a one pager to use to solicit feedback
    - IEEE formed a joint, cross cutting working group to develop a report as a base for guide/standard
  - U.S. DOE - IEEE Whitepaper on Coordinating Smart Inverters with the Distribution Grid based on revised IEEE 1547 – Fast Track Working Group created to develop a paper in next few months
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- IEEE/NERC Joint Workshop on IEEE 1547 DER Interconnection with Electric Power Systems – A Standards and Conformity Assessment Workshop, Aug 2017
  - FERC Workshop on IEEE 1547 DER, Aug 2017
  - San Francisco PES Chapter hosting Workshop on Distributed Energy Resources (DER) and its impacts on the electric grid, 6-7 Sept 2017 at California Public Utility Commission