

IEEE Power & Energy Society (PES)

Technical & Coordinating Committees



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Introduction

The **IEEE Power & Energy Society Technical Activities Committees (TAC)** are comprised of 22 specialized groups, each focusing on a specific discipline within the electric power and energy industry. Collectively, TACs help lead the Society's technical activities around the world.

Through research, collaboration and standardization, TACs produce and maintain essential documentation, including IEEE Standards, technical reports, and other resources for engineers. **Together, TACs contribute to nearly half of all IEEE Standards produced annually**, making them a vital force for engineering progress and innovation.

Explore all our committees to find the ones that match your professional expertise and interests, and learn how you can join today. Help us shape the future of power and energy systems!

Learn more: [ieee-pes.org/technical-activities](https://www.ieee-pes.org/technical-activities)



Analytic Methods for Power System Committee

WHO WE ARE

The **Analytic Methods for Power System (AMPS)** Committee advances analytical and computational methods that guide the planning, operation and optimization of electric power systems.

Our members include industry leaders, practicing engineers, students, and academics who collaborate on models and tools used to study dynamic performance, planning, operations, and distribution system analysis.

COMMITTEE SCOPE

AMPS is focused on all analytical and computational methods, models and tools for electric power systems.

Focus areas include, but are not limited to:

- **Artificial Intelligence & Machine Learning**
- **Bulk Power & Distribution System**
- **Computational Tools and Techniques**
- **Data Analytics & Forecasting**
- **Inverter-Based Resources**
- **Investigative Grid Modeling**

SUBCOMMITTEES

- Big Data Analytics
- Computing & Analytic Methods
- Distribution System Analysis
- Intelligent Systems
- Reliability, Risk & Probability Applications
- Transient Analysis & Simulation

JOIN US

We're looking for members interested in helping us improve analytic and computational models.

Questions? Contact Committee Chair Yanfeng Gong:
Yanfeng.Gong@ieee.org

AMPS ACTIVITIES

- ✓ Meet annually at the PES General Meeting
- ✓ Develop technical reports and standards
- ✓ Contribute to 50+ working groups and task forces
- ✓ Host meetings and sessions at PES conferences
- ✓ Organize tutorials, panel discussions and awards

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to submit an
interest form.



Artificial Intelligence in Power Systems Coordinating Committee

WHO WE ARE

The **Artificial Intelligence in Power Systems Coordinating Committee (AIPSCC)** promotes AI-enabled solutions that improve the security, reliability, resilience, efficiency and sustainability of the electric grid.

As a coordinating committee, AIPSCC serves as a collaboration hub for researchers, developers, system operators and policymakers to advance the science and application of AI in power systems globally.

COMMITTEE SCOPE

AIPSCC is focused on key issues and opportunities at the intersection of AI and power systems, coordinating non-standards technical activities across PES and with external organizations.

Focus areas include, but are not limited to:

- **Advanced and Emerging AI Techniques**
- **AI for System Planning, Operation and Control**
- **Power and Energy for Sustainable AI**

JOIN US

We're establishing and expanding our impact as a new committee. If you're interested in AI-based solutions, come work with us!

Questions? Contact Committee Chair Fran Li:
fli6@utk.edu

AIPSCC ACTIVITIES

- ✓ Identify industry needs and help develop guides and best practices
- ✓ Seek new opportunities for PES to exchange AI insights and information
- ✓ Organize studies, workshops, panel sessions and tutorials
- ✓ Network with members and other PES Technical Committees at the annual General Meeting

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Electric Machinery Committee



WHO WE ARE

The **Electric Machinery Committee (EMC)** develops global standards and leads initiatives to support the creation, operation and modernization of electrical machinery. These machines are central to electric energy generation and conversion, while underpinning critical grid modernization and renewable integration efforts.

Our members are experienced, well-qualified engineers across all industries where electrical machines serve as an integral element in successful operation and development.

COMMITTEE SCOPE

EMC focuses on all matters relating to the research, development, application and evolution of electrical machinery.

Focus areas include, but are not limited to:

- **Microgrids**
- **Motor Generator Sets**
- **Rotating Frequency Changers**
- **Synchronous Machines**
- **Transportation Electrification**

SUBCOMMITTEES

- Generator
- Motor
- Materials
- Renewables

JOIN US

Help us grow our international reach! We welcome engagement from all PES regions.

Questions? Contact Committee Chair Edson Bortoni: bortoni@ieee.org

EMC ACTIVITIES

- ✓ Develop and maintain global standards industry
- ✓ Host panel sessions and tutorials on emerging technologies
- ✓ Meet with 100+ members annually at the PES General Meeting
- ✓ Collaborate with subcommittees and working groups on cross-cutting initiatives

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Energy Development and Power Generation Committee



WHO WE ARE

The **Energy Development and Power Generation (EDPG)** Committee advances the construction and integration of power generation systems that convert a wide range of energy sources, including hydro, solar, wind, nuclear, chemical and fossil fuels, into usable electric power. EDPG also examines the environmental, regulatory, economic, safety and security impacts of power generation.

Our membership is comprised of academics, engineers and young professionals who collaborate on standards, recommended practices, guidelines and policies related to energy conversion systems and facilities.

COMMITTEE SCOPE

EDPG focuses on the research, development, design and operation of systems and facilities for electric power generation.

Focus areas include, but are not limited to:

- **Distributed Battery Systems**
- **Energy-Water Nexus**
- **High Renewables Penetration**
- **Multi-Energy Systems and Microgrids**
- **Smart Grid and IoT Applications**

EDPG ACTIVITIES

- ✓ Explore new energy conversion technologies
- ✓ Collaborate internationally on global energy interconnection
- ✓ Sponsor and develop industry standards
- ✓ Liaise with Subcommittees and other PES Technical Committees

JOIN US

Anyone interested in advancing the future of power generation is welcome to join!

Questions? Contact Committee Chair Michael Negnevitsky: michael.negnevitsky@utas.edu.au

SUBCOMMITTEES

- Distributed Energy Resources
- Excitation Systems & Controls
- Hydroelectric Power
- International Practices
- Renewable Technologies
- Station Design, Operation & Control
- Technologies for GHG Mitigation & Adaptation
- Wind & Solar Power Plant Interconnection & Design

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Energy Internet Coordinating Committee

WHO WE ARE

The **Energy Internet Coordinating Committee (EICC)** promotes convergence between the energy system and the internet – identifying challenges and solutions associated with the Energy Internet. This evolving ecosystem applies informational thinking and emerging technologies to create a reliable, sustainable and safe energy future for all.

Comprised of top academics, industrial experts and industry leaders, the committee aims to advance the Energy Internet across the physical, cyber and business sectors.

COMMITTEE SCOPE

EICC connects ideas and initiatives across technical domains to enable high-penetration renewables, improving efficiency and driving affordability.

Focus areas include, but are not limited to:

- **Big Data Analytics**
- **Cloud-Based Access Control**
- **Data Processing**
- **Integrated Energy Systems**
- **Low-Carbon and Carbon-Neutral Systems**
- **Multi-Carrier Systems**

JOIN US

Help us shape the future of the Energy Internet! All interested industry professionals are welcome to contribute to EICC's ongoing work.

Questions? Contact Committee Chair Mohammad Shahidehpour: ms@iit.edu

EICC ACTIVITIES

- ✓ Develop guidelines and best practices for the Energy Internet
- ✓ Coordinate with other committees and establish liaisons
- ✓ Organize panel sessions with industry experts
- ✓ Participate in activities at PES conferences

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Energy Storage and Stationary Battery Committee



WHO WE ARE

The **Energy Storage and Stationary Battery (ESSB)** Committee develops standards and supplements existing guidance for energy storage, stationary batteries and ancillary direct current systems. These technologies play a critical role in managing grid stability, addressing intermittency from renewable sources, and advancing system resiliency.

ESSB brings together engineers, manufacturers, field technicians, consultants and academics interested in advancing information to navigate the rapidly evolving energy storage landscape.

COMMITTEE SCOPE

ESSB is concerned with the safety, performance and maintenance across all aspects of energy storage systems and battery technologies.

Focus areas include, but are not limited to:

- **Auxiliary Power Systems**
- **Electrochemical Capacitors**
- **Grid-Integrated Systems**
- **Lithium Batteries**
- **Long-Duration Energy Storage**
- **Power Conversion**

SUBCOMMITTEES

- DC Power Equipment & Related Systems
- Energy Storage
- Stationary Battery & Electrochemical Energy Storage

JOIN US

We welcome engineers and practitioners worldwide who are interested in advancing energy storage innovation.

Questions? Contact Committee Chair Jason Wallis:
jason.wallis@enersys.com

ESBB ACTIVITIES

- ✓ Network with members at annual winter and summer meetings
- ✓ Host tutorials, webinars, and technical sessions
- ✓ Liaise with other technical committees, industry partners and regulatory bodies
- ✓ Develop industry standards, best practices and technical reports
- ✓ Conduct outreach with the Safety Codes & Standards working group

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Insulated Conductors Committee



WHO WE ARE

The **Insulated Conductors Committee (ICC)** advances industry standards and technical knowledge to continuously improve the understanding and practical application of insulated conductors and cable systems.

The committee is comprised of end users, manufacturers, research organizations, academic institutions and any other interested parties from around the world.

COMMITTEE SCOPE

ICC focuses on the design, manufacturing, testing, operation and maintenance of insulated wires and cables used in transmission and distribution systems.

Focus areas include, but are not limited to:

- **Cable Insulation and Jacket Materials**
- **Liquid-Cooled EV Charging Cables**
- **Next-Generation Superconducting Cables**
- **Offshore Wind Cables and Accessories**

SUBCOMMITTEES

- Accessories
- Cable Construction & Design
- Cable Systems
- Field Testing & Diagnostics
- Generating Station & Industrial Cable
- Transnational

JOIN US

All industry professionals with related interests are welcome to join!

Questions? Contact Committee Chair Bert Spear: albert.spear@duke-energy.com

ICC ACTIVITIES

- ✓ Participate in biannual in-person meetings
- ✓ Develop and maintain 90+ IEEE Standards
- ✓ Oversee IEEE activities, publications and panel sessions
- ✓ Attend and deliver presentations on relevant industry topics
- ✓ Coordinate across PES, industry groups and utilities

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Intelligent Grid & Emerging Technologies Coordinating Committee



WHO WE ARE

The **Intelligent Grid & Emerging Technologies (iGET)** Coordinating Committee is a key information hub on emerging technologies across all IEEE PES technical fields.

Comprised of liaisons from various technical committees and other interested parties, iGET helps identify and integrate innovative technologies that are shaping next-generation electrical power systems.

COMMITTEE SCOPE

iGET serves as a cross-cutting forum, connecting ideas and initiatives across technical domains, to foster new solutions and ensure all key emerging technologies are considered.

Focus areas include, but are not limited to:

- **Cybersecurity**
- **Electric Machinery**
- **Energy Storage**
- **Insulated Conductors**
- **Power Generation & Energy Development**
- **Power System Operations**
- **Smart Grid**
- **Substations, Switchgear & Transformers**
- **Transmission & Distribution**

iGET ACTIVITIES

- ✓ Develop virtual tutorials
- ✓ Host webinar series
- ✓ Sponsor sessions at PES events
- ✓ Update white papers on emerging technologies
- ✓ Identify opportunities for joint working groups

JOIN US

We're looking for participants interested in advancing cutting-edge technologies, especially those who can serve as representatives from other PES committees.

Questions? Contact Committee Chair Theo Laughner:
tlauthner@lifescleanalytics.com

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Marine Systems Coordinating Committee



WHO WE ARE

The **Marine Systems Coordinating Committee (MSCC)** collaborates with other PES committees and industry groups to advance technical knowledge on the power and energy systems of maritime applications.

Our members include academics, engineers, consultants, industry leaders and early-career professionals who provide interdisciplinary expertise of marine electrical power engineering across PES and beyond.

COMMITTEE SCOPE

MSCC is focused on all matters related to the generation, distribution and application of power and energy at sea.

Focus areas include, but are not limited to:

- **Earthing/Grounding Systems**
- **Energy Harvesting Techniques**
- **Frequency Converters**
- **Ship-to-Shore Interconnection**
- **Smart Grids and Renewables for Ships and Ports**

SUBCOMMITTEES

- Education & Symposia
- Environmental Impact
- Marine Grounding & Safety
- Marine Transmission & Distribution
- Marine Wind, Wave & Tidal Systems
- Ships, Vessels & Marine Platforms

JOIN US

Anyone interested in advancing our work is encouraged to join.

Questions? Contact Committee Chair Dwight Alexander: dwright.alexander@ieee.org

MSCC ACTIVITIES

- ✓ Meet annually at the PES General Meeting
- ✓ Host webinars on trending technologies
- ✓ Develop and maintain IEEE standards
- ✓ Sponsor technical sessions and reports
- ✓ Collaborate with various working groups and subcommittees on shared interests

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to submit an
interest form.



Nuclear Power Engineering Committee



WHO WE ARE

The **Nuclear Power Engineering Committee (NPEC)** develops and maintains IEEE standards, codes and technical guidance to support the advancement of nuclear power plants and systems worldwide. NPEC maintains the second largest number of nuclear standards critical to the design and construction of nuclear power plants in the U.S., helping chart the future of nuclear power.

The committee is comprised of an international group of technical experts from utilities, power generators, vendors, engineers and regulators, representing a broad cross-section of the nuclear power industry.

COMMITTEE SCOPE

NPEC leads all nuclear power-related technical and standards activities within IEEE, spanning the full lifecycle of nuclear power, from research and development to generation and resiliency.

Focus areas include, but are not limited to:

- **Advanced Reactor Technologies**
- **Instrumentation and Control Design**
- **Nuclear Power Plants**
- **Power Generation**
- **Protective Relays**
- **Standby Power Systems**

SUBCOMMITTEES

- Auxiliary Power Systems
- Equipment Qualification
- Human Factors & Human Reliability
- Instrumentation & Control Systems
- Operations, Maintenance, Aging, Testing, & Reliability

JOIN US

Help shape the next era of nuclear power. We are actively seeking global participation from all PES Regions.

Questions? Contact Committee Chair Robert Konnik: rkonnik@ieee.org

NPEC ACTIVITIES

- ✓ Contribute to industry standards and best practices
- ✓ Liaise with industry partners, agencies and associations
- ✓ Engage with students and educational institutions on nuclear engineering
- ✓ Organize panel sessions and participate in PES events
- ✓ Develop regulatory guides and other rule-making documents

Scan here to submit an interest form.



Power System Communications and Cybersecurity Committee

WHO WE ARE

The **Power System Communications and Cybersecurity Committee (PSCCC)** is an interdisciplinary team dedicated to addressing the unique communication and cybersecurity challenges of power systems.

Our global members represent utilities, manufacturers, consultancies, research institutions and universities, helping to protect system networks, enable secure data transfer, integrate communication equipment and advance system interoperability.

COMMITTEE SCOPE

PSCCC works to investigate, educate, and develop standards relating to any electrical, wireless, and optical means for communication across power systems.

Focus areas include, but are not limited to:

- **Communication Circuit Protection**
- **Communication Infrastructure**
- **Cybersecurity**
- **Data Integrity**
- **Equipment & Personnel Safety**
- **Protocol Definition & Testing**

SUBCOMMITTEES

- Administrative
- Cybersecurity
- Optical Fiber
- Power Line Carrier
- Protocols & Architecture
- Wire Line

JOIN US

We're looking for participants passionate about shaping the future of secure energy communications.

Questions? Contact Committee Chair Marc Benou: marcb@iniven.com

PSCCC ACTIVITIES

- ✓ Contribute to 30+ active projects
- ✓ Meet three times per year with industry leaders and experts
- ✓ Develop industry reports, standards and best practices
- ✓ Support joint initiatives with the Power System Relaying and Control Committee
- ✓ Identify emerging technologies and trends shaping grid communications

Scan here to submit an interest form.



Power System Dynamic Performance Committee



WHO WE ARE

The **Power System Dynamic Performance (PSDP)** Committee advances technical knowledge and guidance to address the evolving dynamics of modern power systems that support grid stability, reliability and resilience in a high-renewables energy future.

Comprised of numerous working groups and task forces, PSDP brings together experts from utilities, technology providers, manufacturers, academia and consultants, working across the industry to shape how dynamic grid behavior is understood, modeled and managed for the future.

COMMITTEE SCOPE

PSDP is focused on the assessment and enhancement of all aspects of dynamic power performance at the machine, system or area level.

Focus areas include, but are not limited to:

- **Digital Twins**
- **Dynamic HVDC Transmission Models**
- **Electric Vehicles**
- **Grid Edge Technologies**
- **Inverter-Based Resources**
- **Machine Learning Applications**
- **Microgrids**

SUBCOMMITTEES

- Power System Stability
- Power System Stability Controls

JOIN US

Anyone interested in improving power system dynamic performance is welcome to join us!

Questions? Contact Committee Chair Zhenyu (Henry) Huang: Henry.Huang@anl.gov

PSDP ACTIVITIES

- ✓ Organize panels and sessions at PES conferences
- ✓ Join working groups and task forces on emerging challenges
- ✓ Develop and maintain IEEE standards and technical guidance
- ✓ Contribute to working group papers in IEEE journals
- ✓ Collaborate across committees with industry partners

Scan here to submit an interest form.



Power System Instrumentation and Measurements Committee



WHO WE ARE

The **Power System Instrumentation and Measurements (PSIM)** Committee develops standards and technical resources to support power system safety and reliability through accurate measurement and testing.

Our membership is comprised of subject matter experts across industry, academia, research and metrology, which look at various topics related to high-voltage tests, measurements, electricity metering and current sensor systems designed to measure electrical quantities.

COMMITTEE SCOPE

PSIM focuses on performance requirements, identifying potential sources of error and recommending best practices for systems that measure current voltage, power and power factors.

Focus areas include, but are not limited to:

- **Direct Current Energy Metering**
- **Digital Techniques in Electrical Measurements**
- **Measurement of Harmonics in the Power System**
- **Non-Conventional Smart Grid Sensors**
- **Power Quality**
- **UHV Alternating Current and Direct Current Transmission Systems**

SUBCOMMITTEES

- Electricity Metering
- High Voltage Testing Techniques
- Sensor Technologies

JOIN US

PSIM is looking to expand its membership. Any interested parties from around the world are welcome to join!

Questions? Contact Committee Chair David Wallace:
david@ece.msstate.edu

PSIM ACTIVITIES

- ✓ Design tutorials for emerging technologies and new standards
- ✓ Network with other members at the annual PES General Meeting
- ✓ Liaise with other technical committees, societies and associations
- ✓ Prepare position papers and documents
- ✓ Organize panel sessions at PES conferences

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interest form.



Power System Operation, Planning & Economics Committee

WHO WE ARE

The **Power System Operation, Planning & Economics (PSOPE)** Committee guides research, oversees development and serves as a bridge between academia and practical applications to an evolving power system business environment.

PSOPE is one of IEEE PES' largest technical committees. Our members include high-level leaders from industry, academia, government and R&D organizations who are leading power systems and spearheading innovations for tomorrow.

COMMITTEE SCOPE

PSOPE covers the philosophies, methodologies, practices and tools for the operation, planning and economics of interconnected and insular power systems.

Focus areas include, but are not limited to:

- **Artificial Intelligence**
- **Distributed Energy Resources and their Management Systems**
- **Virtual Power Plants**

SUBCOMMITTEES

- Awards
- Bulk Power System Operation
- Bulk Power System Planning
- Distribution System Operation & Planning
- Power System Economics
- Technologies & Innovation

JOIN US

We are looking to expand our global reach. Members from all PES regions are encouraged to join!

Questions? Contact Committee Chair Ramteen Sioshansi: rsioshan@andrew.cmu.edu

PSOPE ACTIVITIES

- ✓ Advise on relevant techniques and methodologies
- ✓ Train and support operations and planning personnel
- ✓ Organize panels and technical sessions
- ✓ Produce reports, papers and webinars
- ✓ Meet annually at the PES General Meeting

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Power System Relaying and Control Committee



WHO WE ARE

The **Power System Relaying and Control Committee (PSRC)** is a global network of experts in power system protection and control, including sensing, data acquisition and processing, fault detection, manual or automatic control, and auxiliary operation.

We bring together technical leaders and representatives from utilities, suppliers, universities and consulting engineering firms worldwide, and collaborate with other technical committees, societies, groups, and associations.

COMMITTEE SCOPE

PSRC safeguards the power grid by advancing the principles, application, design, construction, testing, and operation of power system protection and control.

Focus areas include, but are not limited to:

- **Cybersecurity**
- **Grid Stability Under Stress**
- **Inverter-Based Resources**
- **Protection and Control Technology**
- **Wildfire Ignitions from Power Lines**

SUBCOMMITTEES

- Protection and Control Practices
- Relaying Communications and Control
- Line Protection
- Rotating Machinery
- Substation Protection
- System Protection

JOIN US

Anyone interested in protective relaying or contributing to our work are welcome.

Questions? Contact Committee Chair Gene Henneberg: chair@pes-psrc.org

PSRC ACTIVITIES

- ✓ Contribute to 100+ working groups
- ✓ Meet three times per year with 250+ industry experts
- ✓ Conduct synchrophasor-based grid data collection
- ✓ Evaluate emerging protection technologies and strategies
- ✓ Develop technical standards, guides and recommended practices

Scan here to submit an interest form.



Renewable Systems Integration Coordinating Committee



WHO WE ARE

The **Renewable Systems Integration Coordinating Committee (RSICC)** identifies the need for guidelines, recommended practices and standards with respect to the integration of renewables and other electrification applications.

This committee connects engineers, industry leaders, academics and early-career professionals to promote knowledge on these key industry issues.

COMMITTEE SCOPE

RSICC focuses on coordinating broad, system-level issues related to the integration of renewable generation and related technologies such as energy storage and demand flexibility.

Focus areas include, but are not limited to:

- **Energy Storage and Supporting Technologies**
- **Other Inverter Based Resources**
- **Solar Generation**
- **Wind Generation**

RSICC ACTIVITIES

- ✓ Coordinate activities across PES with other committees and working groups
- ✓ Conduct studies, workshops and panel sessions
- ✓ Liaise with global organizations on related issues and activities
- ✓ Meet annually at the PES General Meeting

JOIN US

Anyone interested in advancing the future of renewable energy integration is welcome to join!

Questions? Contact Committee Chair Aidan Tuohy: atuohy@epri.com

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Smart Buildings, Loads and Customer Systems Committee



WHO WE ARE

The **Smart Buildings, Loads and Customer Systems (SBLCS)** Committee develops technical standards and insights to guide the evolving landscape of energy services and systems behind the meter. The committee also seeks to refine the processes and business models that clarify the relationship between the grid and distributed energy resources.

Committee membership includes industry leaders, practitioners and academics with a common interest in advancing grid-edge innovation.

COMMITTEE SCOPE

SBLCS is focused on advancing consumer-side technologies and practices that improve how distributed energy systems and customer loads interact with the grid.

Focus areas include, but are not limited to:

- **AI and Machine Learning**
- **Data Center Integration**
- **Distributed Ledgers**
- **EV Charging**
- **Metering Technologies**
- **Smart Buildings**

SUBCOMMITTEES

- Architecture
- Customer Systems & Smart Buildings
- Loads

JOIN US

Join one of the fastest-growing areas of the electric grid. New members from all PES regions are encouraged to get involved.

Questions? Contact Committee Chair Qun Zhou Sun:
qzsun@ucf.edu

SBLCS ACTIVITIES

- ✓ Develop and promote industry standards and best practices
- ✓ Sponsor technical sessions and presentations at PES events
- ✓ Partner with other technical committees, societies and associations
- ✓ Review and assess technical papers, reports and guidelines

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to submit an
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Substations Committee

WHO WE ARE

The **Substations Committee** advances the design, operation and performance of electrical substations for generation, transmission, distribution, storage and use of electric energy. Through the development of industry standards and educational materials, the committee supports the reliable and efficient movement of electricity across today's modern grid.

The committee is home to a global network of engineers and utility professionals who collaborate to equip the power industry with trusted guidance and best practices.

COMMITTEE SCOPE

The Substations Committee focuses on all matters related to the design, construction, operation, testing, and maintenance of substations and switching stations used as part of the electrical power system.

Focus areas include, but are not limited to:

- **Copper Theft Deterrent Hardware**
- **Cybersecurity and System Monitoring**
- **Digital Substation Design**
- **Physical and Electronic Security**
- **Substation Resilience and Fire Protection**
- **Voltage Source Converters**

SUBCOMMITTEES

- Electrical Substation Design
- FACTS & HVDC Stations
- Gas Insulated Substations
- Substation Civil Design
- Substation Grounding & Lightning

JOIN US

We are looking to expand our global reach. Members from all PES regions are encouraged to join!

Questions? Contact Committee Chair Matt Bauer: mbauer@burnsmcd.com

SUBSTATIONS ACTIVITIES

- ✓ Network with 500+ members annually at in-person meetings
- ✓ Organize panels, presentations and technical sessions at PES events
- ✓ Develop webinars and tutorials on new technologies
- ✓ Publish articles in IEEE magazines and journals

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Surge Protective Devices Committee

WHO WE ARE

The **Surge Protective Devices Committee (SPDC)** supports the protection of electrical systems and equipment from damage caused by overvoltages, overcurrents and other surge events. By developing and maintaining industry standards and technical guidance, SPDC strengthens the reliability, resiliency and performance of modern power systems.

Our global membership includes designers, technical experts, engineers, utilities, manufacturers, vendors, consultants and end-users, who are all focused on advancing surge protection across the evolving electric grid.

COMMITTEE SCOPE

SPDC is responsible for all matters relating to the design, testing, operation and performance of surge protective devices and associated components.

Focus areas include, but are not limited to:

- **Electric Vehicle Service Equipment**
- **Externally Gapped Line Arresters**
- **Rotating AC Machines**
- **Smart Grid Electrical Protection**
- **Wind Power Facilities**

SUBCOMMITTEES

- Bibliography & Definitions
- High-Voltage Surge Protective Devices
- Low-Voltage Surge Protective Devices
- Web & Electronic Documentation

JOIN US

Help us expand our global reach!

Questions? Contact Committee Chair Steven Hensley:
steven.p.hensley@sargentlundy.com

SPDC ACTIVITIES

- ✓ Participate in emerging technology working groups
- ✓ Organize panels, presentations and tutorials at PES events
- ✓ Publish white papers and articles in IEEE journals
- ✓ Liaise with other technical committees, societies and associations

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Switchgear Committee

WHO WE ARE

The **Switchgear Committee** develops and maintains standards to support the reliable, safe and efficient operation of switchgear and its components in electric power systems under both normal and abnormal conditions.

The committee gathers technical and managerial representatives from manufacturers, consultants, vendors and end-users to advance modern switchgear systems and applications.

COMMITTEE SCOPE

The Switchgear Committee is focused on all matters related to the design, construction, operation and performance of devices that establish, interrupt or change connections in electrical circuits.

Focus areas include, but are not limited to:

- **Buses Included in Switchgear Assemblies**
- **Circuit Breakers and Current-Limiting Devices**
- **Fuses and Cutouts**
- **Gas-Insulated Switchgear**

SUBCOMMITTEES

- High-Voltage Circuit Breakers
- High-Voltage Fuses
- High-Voltage Switches
- Low-Voltage Switchgear Devices
- Reclosers & Other Distribution Equipment
- Switchgear Assemblies
- Technology & Innovation

JOIN US

Anyone interested in advancing our work is encouraged to get involved!

Questions? Contact Committee Chair Donnie Swing:
D.Swing@ieee.org

SWITCHGEAR ACTIVITIES

- ✓ Participate in nearly 40 working groups across PES
- ✓ Organize and host panels and presentations at industry conferences
- ✓ Conduct technical sessions and tutorials
- ✓ Liaise with other technical committees, societies and associations

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interest form.



Transformers Committee



WHO WE ARE

The **Transformers Committee** develops standards and guidelines for the treatment and use of transformers and its related equipment across the electric utility and industrial power systems.

As one of the largest and most active committees within the IEEE Power & Energy Society (PES), our members are technical and managerial experts, representing manufacturers, consultants, vendors, and end users of electrical transformers and its components.

COMMITTEE SCOPE

The committee's scope includes the design, testing, operation, repair and ongoing maintenance of transformers, reactors, and associated components.

Focus areas include, but are not limited to:

- **Generation, Transmission & Distribution Transformers**
- **Insulation & Dielectric**
- **Specialized Transformer Designs & Applications**
- **Voltage Regulators**

ACTIVITIES

- ✓ Sponsor and develop technical standards
- ✓ Inform industry best practices and policies
- ✓ Prepare position papers
- ✓ Represent IEEE PES at technical conferences

JOIN US

We welcome anyone interested in learning more about transformers and helping advance our work.

Questions? Contact Committee Chair Bill Griesacker:
jbgriesacker@verizon.net

SUBCOMMITTEES

- Bushings
- Dielectric Tests
- Distribution Transformers
- Dry Type Transformers
- HVDC Converter Transformers & Reactors
- Instrument Transformers
- Insulating Fluids
- Insulation Life
- Meeting Planning
- Performance Characteristics
- Power Transformers
- Standards
- Subsurface Transformers & Network Protectors

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Transmission and Distribution Committee



WHO WE ARE

The **Transmission & Distribution (T&D)** Committee develops standards and discusses technical issues involving electric power transmission and distribution.

Our membership is comprised of manufacturers, vendors, academics, consultants, electric power end users and technical and managerial representatives from electric power transmission and distribution system providers.

COMMITTEE SCOPE

T&D focuses on all matters relating to the design, performance, installation and operation of electric power systems that transmit electric energy between two sources.

Focus areas include, but are not limited to:

- **Engineering in the Safety, Maintenance and Operation of Lines**
- **Flexible Alternating Current Transmission Systems**
- **Harmonics and Power Quality**
- **Integration of Renewable Energy Resources into Transmission and Distribution Systems**
- **Overhead and Underground AC and DC Transmission and Distribution Systems**
- **Overhead Conductors**
- **Reliability and Resilience of Transmission and Distribution Systems**
- **Shunt and Series Capacitors**
- **Structural Coordination and Mechanical Problems of Transmission Lines**
- **Towers, Poles, Insulators and Hardware**
- **Transmission and Distribution Power System Switching and Voltage Optimization**

JOIN US

Anyone interested in advancing electric power transmission and distribution is welcome to join us!

Questions? Contact Committee Chair Julio Romero Agüero: jera@ieee.org

SUBCOMMITTEES

- Capacitor
- Distribution
- Engineering in the Safety, Maintenance and Operation of Lines
- HVDC and Flexible AC Transmission Systems (FACTS)
- Overhead Lines
- Power Quality
- PQ Standards Coordinating Subcommittee 22
- Transmission

ACTIVITIES

- ✓ Organize sessions at PES events
- ✓ Develop tutorials on emerging technologies
- ✓ Contribute to new standards and best practices
- ✓ Publish working group papers in IEEE journals

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Learn more at: ieeepes.org/technical-activities