

Electric Machinery Committee (EMC)



Who We Are

The Electric Machinery Committee is concerned with all matters related to the requirements, research, development, application, design, construction, operation, or supervision of electrical machinery. This machinery is associated with the generation of electric energy and its conversion into other forms of electric or mechanical energy. Members are experienced, well-qualified engineers active in all walks of industry where electrical machines constitute an integral element in successful operation and development.

Committee Scope

Included in the scope of the Committee is treatment of the following equipment and apparatus:

- Synchronous machines
- Induction machines
- DC and Permanent Magnet machines
- Motor generator sets
- Rotating frequency changers
- Electric couplings, brakes, and dynamometers

Subcommittees

- Renewable Energy and Integration
- Synchronous Condenser Design & Application
- Advanced Motor Designs & Condition Monitoring
- Insulation System Development, Characterization and Testing
- Adaptation of Large Synchronous Generators for an Evolving Grid
- Electric Machine Testing
- Standards for Turbo and Hydro Generators 10 MVA and above
- Guides for all aspects of electric machine testing and repair

Join Us!

Most working group, subcommittee, and committee business is conducted online. The committee meets once a year at the IEEE Power & Energy Society General Meeting - typically attended by some 40 of the nearly 100 members. Subcommittees and most active working groups meet concurrently. The committee hosts a variety of panel sessions.

