

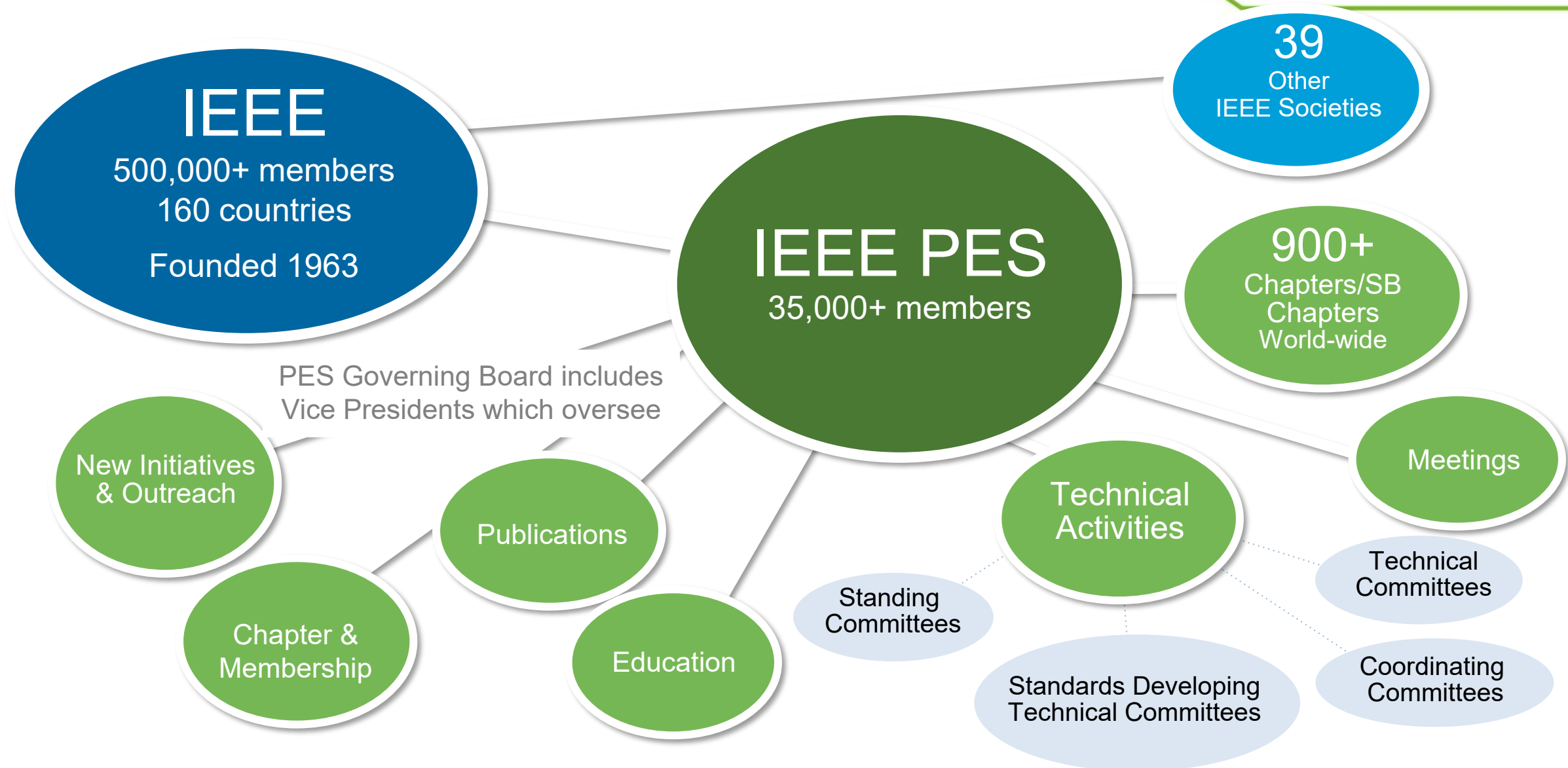


# IEEE Power & Energy Society

July 2025

Dan Toland/Jennifer Jaques

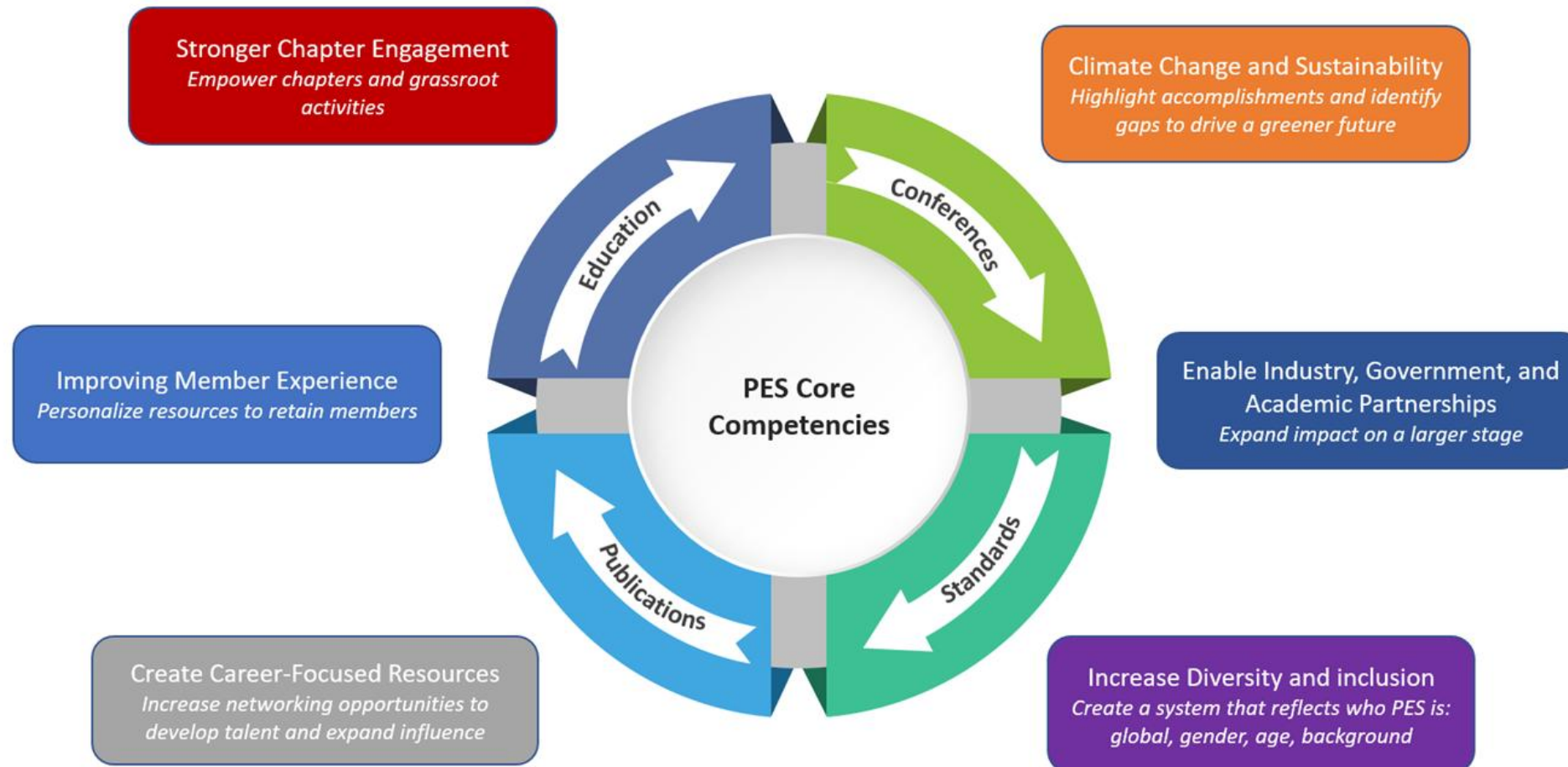
# IEEE Power & Energy Society





# 2024 – 2028 PES Strategic Direction

To be the leading provider of the latest technological development in the power and energy industry for the betterment of humanity



# PES Global Engagement

~39,500 members and 900+ chapters

*as of June 2025*

## REGION 1-7

136 chapters | 74 student chapters | ~18,000 members

## REGION 8

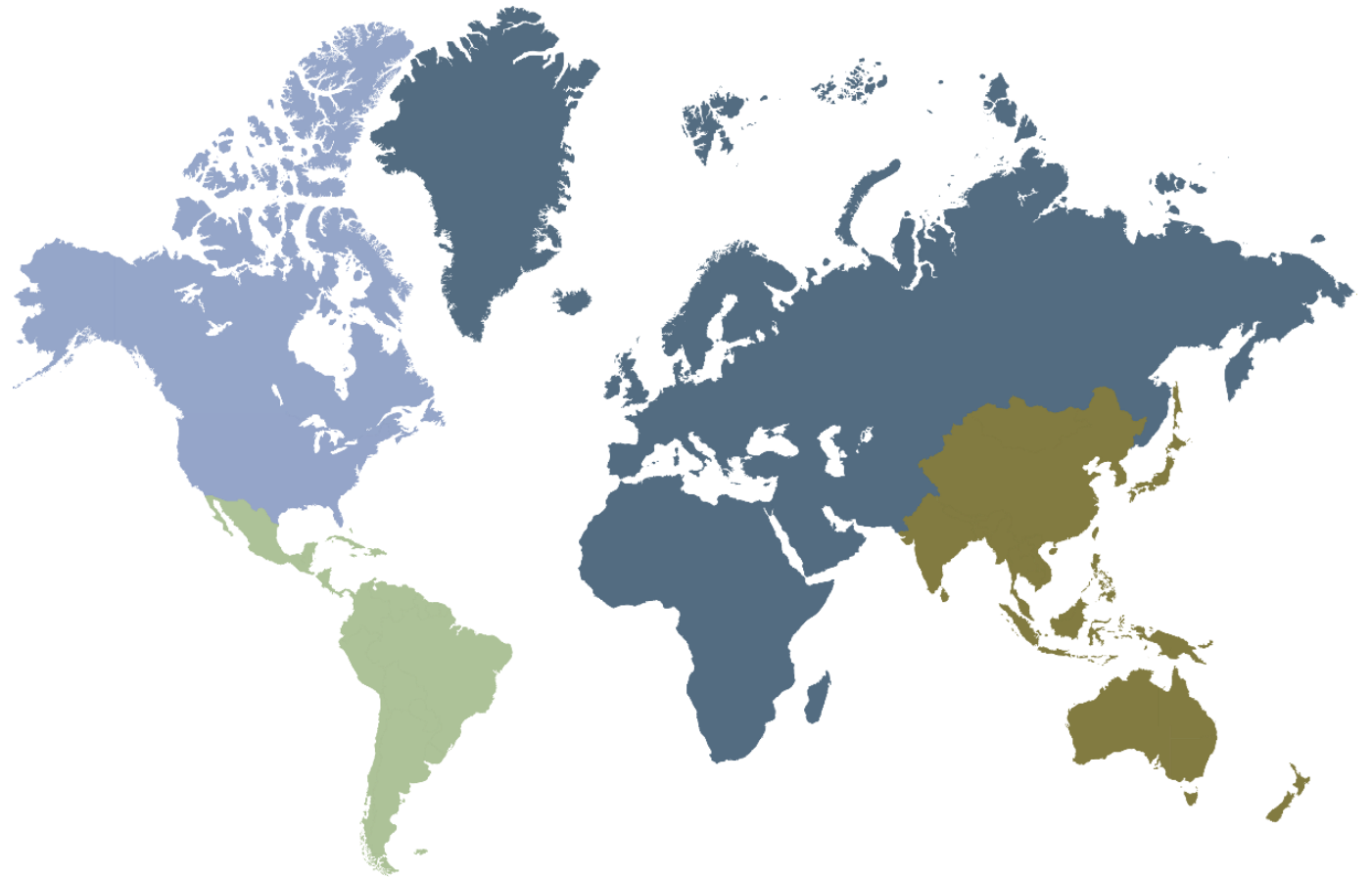
48 chapters | 118 student chapters | ~5,600 members

## REGION 9

36 chapters | 136 student chapters | ~3,000 members

## REGION 10

54 chapters | 307 student chapters | 13,000~ members



*>50% of members are outside USA*

# PES and IEEE Membership Grades

## Member

- Nearly two-thirds of PES members fall into this category of membership. Practicing engineers and academics that have not met or applied for Senior Member are in this category.

## Student Member

- Students are eligible for the Student Member grade. Student members pay reduced fees for membership, and often receive discounts and special support at PES conferences and events.

## Graduate Student Member

- Our graduate students fall into the Graduate Student Member grade. They are eligible for the same discounts as Student Members, but the Graduate Student Member grade reflects the advanced nature of their studies. Graduate students are also eligible for a free first year of PES membership.

## Senior Member

- The Senior Member grade is granted by the IEEE. Senior member is the highest grade for which IEEE members can apply. IEEE members can self-nominate, or be nominated, for Senior member grade. IEEE will be focusing on Senior Member Elevation in 2025. <https://ieee-pes.org/membership-chapters/senior-members/>

## Fellow

- IEEE Fellow is a distinction reserved for select IEEE members whose extraordinary accomplishments in any of the IEEE fields of interest are deemed fitting of this prestigious grade elevation. <https://www.ieee.org/membership/fellows/fellows-nomination.html>

## Life Member

- A special IEEE membership designation given to individuals based on years of IEEE membership and their age. <https://life.ieee.org/>

## Affiliate Member

- Affiliate members are PES members that are not IEEE members. They do not receive IEEE benefits but receive PES benefits.

# All Member Grades



## PES Benefits

**Events** – Reduced registration rates to dozens of leading PES regional and global events.

**IEEE PES Resource Center** – Free access to on-demand technical papers, webinars and online tutorials, Plain Talks, and educational credits (CEUs and PDHs) in the PES-dedicated [IEEE PES Resource Center](#).

**Magazines** – Complimentary digital subscription access to the leading [IEEE Power & Energy](#), [IEEE Electrification](#), and [IEEE Energy Sustainability](#) magazines.

**Chapter Activities** – With 900+ global chapters, there's a local chapter for you to join for free.

**IEEE Xplore** – Additional discounted content available in the [IEEE PES digital library](#) in [IEEE Xplore](#).

**Recognition Opportunity** – IEEE Technical Field Awards, PES Technical Council Awards & Technical Committee awards, IEEE Fellows <https://ieee-pes.org/about-pes/awards-scholarships/#scholarships>

**PES Scholarships**– Five available for undergraduate and graduate student members

# Technical Community

- 21 technical committees (plus 20 satellite technical committees)
- Active/Published Standards: 487 IEEE PES standards out of 1,300 total IEEE SA Standards
  - **50% are created by PES**
- Active PARs (projects): 366 IEEE PES PARs out of 1,067 total IEEE SA PARs
- Recently published technical reports
  - Report on Analog Leased Line Withdrawal of Service and Transition Options for Power System Applications
  - State Estimation for Integrated Energy Systems: Motivations, Advances, and Challenges
  - Cyber-Physical Interdependence for Power System Operation and Control
  - Innovative Teaching Methods for Modern Power and Energy Systems
  - Practices for Generator Synchronizing Systems

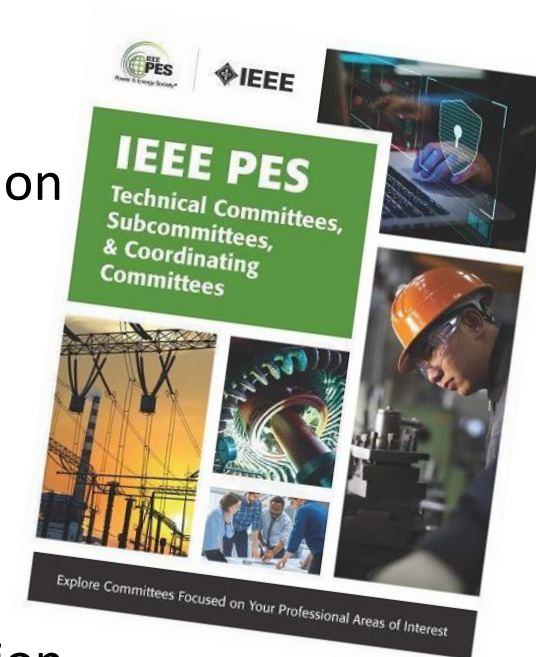
# PES Technical Committees

- Analytic Methods for Power Systems
- Electric Machinery
- Energy Development and Power Generation
- Energy Storage and Stationary Battery
- Insulated Conductors
- Nuclear Power Engineering
- Power System Communications and Cybersecurity
- Power System Dynamic Performance
- Power System Instrumentation and Measurements
- Power System Operations, Planning and Economics

- Power System Relaying and Control
- Smart Buildings, Loads and Customer Systems
- Substations Committee
- Surge Protective Devices
- Switchgear
- Transformers
- Transmission and Distribution

## Coordinating Committees:

- Energy Internet
  - Intelligent Grid & Emerging Technologies
  - Marine Systems
  - Renewable Systems Integration
- Coordinating Committee

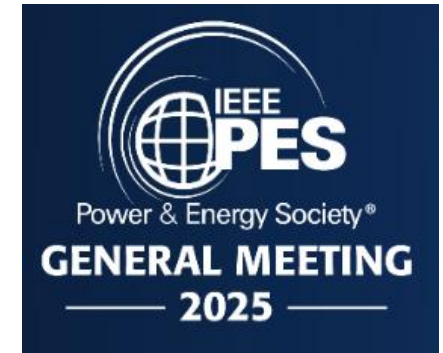




# Conferences and Meetings

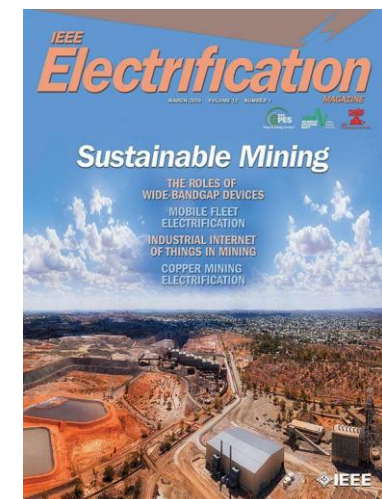
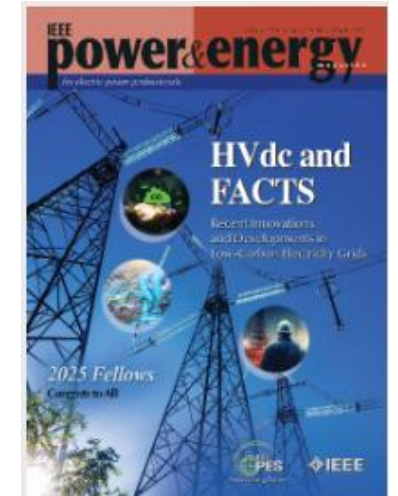
*Over 30 global conferences annually*

- PES General Meeting-Premier power engineering conference
  - July 2025
  - 3,500 attendees
  - 60 countries represented
  - 329 committee meetings
  - 150 panel sessions
- PES T&D Conference & Exposition – largest IEEE event
  - May 2024 - 60th anniversary of IEEE PES T&D
  - 13,818 registrations from 78 countries
  - 872 exhibitors from 32 different countries
  - 263,700 square footage exhibit space occupied - T&D record
  - 58 panel sessions (including 6 super Sessions), 42 stage presentations
  - 102 conference papers presented at poster session
- PES Grid Edge Technologies Conference & Exposition
  - 21-23 January 2024 in San Diego (US) - New tradeshow and conference, non-T&D years
  - 1,700 attendees/~100 exhibitors
  - Collaborative forum, bringing together a variety of organizations helping to deliver enhanced productivity, efficiency, and interoperability to the grid
  - Cutting-edge insights from leading experts helping to maximize productivity and efficiency at the grid edge
  - April 2026 – Salt Lake City, UT



# Publications

- Hybrid journals – allowing either traditional manuscript submission or Open Access
  - *IEEE Transactions on Energy Conversion*
  - *IEEE Transactions on Energy Markets, Policy and Regulation* – launched in 2023
  - *IEEE Transactions on Power Delivery*
  - *IEEE Transactions on Power Systems*
  - *IEEE Transactions on Smart Grid*
  - *IEEE Transactions on Sustainable Energy*
- Open Access only
  - *IEEE Open Access Journal of Power and Energy*
- All PES journals are digitally archived in IEEE Xplore
- Award-winning magazines, *Power & Energy* and *Electrification*
  - *P&E Magazine* available in Spanish



# PES Joint Programs



The IEEE Transportation Electrification Council (TEC) coordinates activities throughout the IEEE in the growing electrification revolution across transportation domains, including advances in electric and hybrid cars, more-electric ships and aircraft, rail systems, personal transport, and the motive, storage, power grid, electronic intelligence, and control technologies that make them possible.

Creates leadership, professional development, standards development, and other opportunities for practitioners, researchers, students, and all IEEE members interested in electric transportation.

<https://tec.ieee.org/about>



Smart Cities identifies and further develops technical best practices across functional and application domains within the context of urban infrastructure systems.

Brings together various IEEE societies & organizations to advance the state of smart city technologies for the benefit of society.

8 IEEE partner organizational units.

[smartcities.ieee.org](http://smartcities.ieee.org)

# PES Managed Programs



Support the world's energy-impovertised communities by providing a comprehensive solution combining renewable energy, community-based education, and entrepreneurial opportunities.

Provides seed-funding to carefully selected community entrepreneurs based upon a credible business plan that will impact significant number of people with electricity, education and jobs.

<https://www.ieeefoundation.org/impact/illuminate/ieee-smart-village/>



## IEEE Power & Energy Society **SCHOLARSHIP PLUS INITIATIVE®**

*Preparing the Next Generation of Power & Energy Engineers*

Provides scholarships and real-world experience to undergraduates who are interested in power and energy engineering careers.

The initiative supports these students with financial assistance. You can apply for the PES Scholarship as early as your first year in college.

[https://ieee.secure-platform.com/a/page/society\\_awards/powerandenergysociety](https://ieee.secure-platform.com/a/page/society_awards/powerandenergysociety)



# Climate Change Initiative

- High level goals...
  - Position PES as a global leader on climate change awareness and response
  - Increase visibility and positive awareness of PES and its members
  - Produce a steady stream of value-creating media relations
  - Build a robust thought-leadership program for PES
  - Facilitate PES subject matter participation in strategic media opportunities relating to climate change
- Collaborating with the many initiatives and projects across all of IEEE
- Learn more: <https://ieee-pes.org/climate-change/>

