

IEEE Power and Energy Society Entity Annual Report

2024

Entity: Intelligent Grid and Emerging Technologies Coordinating Committee (iGETCC)

Website: <https://cmte.ieee.org/iget/>

Chair: Theo Laughner, Lifescale Analytics

Vice-Chair: Daniel Molzahn, Georgia Institute of Technology

Secretary: Jovanio Santos, Thymos Energia

TCPC: Kaveri Mahapatra, Pacific Northwest National Laboratory

Standards Coordinator: Alan Washburn, Burns & McDonald

Immediate Past Chair: Jim Follum, Pacific Northwest National Laboratory

1. Significant Accomplishments:

Our TPCP has been very busy this year helping get reviewers for papers at a variety of the conferences being hosted by IEEE. The IEEE T&D Conference had 10 papers submitted to IGET. The PES GM had 92 papers submitted along with 1 panel session. The 2025 Grid Edge conference had 10 papers submitted.

IGET continues to serve the community by hosting webinars on timely and engaging topics. In February, there was a webinar on the impacts of climate change on market design. In June there was a webinar on cyber informed engineering.

Lastly, we started a Hot Topics thread on our website so that interested people can see where all the activities around specific hot topics (e.g. Electric Vehicles, Digital Twin) are being performed within PES.

2. Benefits to Industry and PES Members from the Committee Work:

The webinars hosted by IGET increased awareness of emerging technologies among PES members participating in relevant committees. This awareness is crucial to ensuring that all aspects of these technologies, which tend to span the scopes of multiple committees, are considered. The webinars also foster dialog among committee members that otherwise may not have the chance to interact.

3. Benefits to Volunteer Participants from the Committee Work:

The presenters of IGET-sponsored webinars have benefited from visibility among PES committees that they are otherwise uninvolved with. IGET's members have benefited from the exposure to a broader set of technologies and an expanded network that comes from organizing presentations.

4. Recognition of Outstanding Performance:

The role of the TCPC has been very critical with all of the papers being submitted to iGET. Consequently, iGET would like to recognize Kaveri Mahapatra for her support and coordination of paper reviewers.

5. Coordination with Other Entities (PES Committees, CIGRE, standards, etc.):

We continue to coordinate with PES PSCCC, IEEE PES SCC-22.

Liaisons were assigned for PSCCC and Switchgear's Technology & Innovation Subcommittee.

We have been working with the Smart Grid Community as they transition into the Smart Cities TC 2.0.

6. Coordination and Involvement with Young Professionals:

We are actively seeking new YP members from all regions. We have been involved in the IEEE Mentoring Program that took place during the PES GM.

7. New Technologies of Interest to the Committee:

Climate Change, Artificial Intelligence, and Cyber security all remain topics of interest to the Committee.

8. Global Involvement

We have been actively participating in the Satellite Committee Meetings which include reports from the iGET primarily in China.

The officers from the Satellite Committee are:

Chair: Dong Yue

Vice Chair:

Secretary: Qun Li

Liaison: Tengfei Zhang

The China STC meets annually during the New Energy and energy Storage System Control Summit Forum (NEESSC). The next meeting will be held August 15-17 in Hohhot, China.

9. Problems and Concerns:

The committee is underutilized. We were under consideration for being joined with the Smart Grid Community. The Smart Grid Community ultimately decided to join the Smart Cities TC. More recently, there have been discussion to create a new coordinating committee for artificial intelligence even though this seems to be an emerging technology. We would welcome the opportunity to bring more value to the IEEE Power and Energy Society.



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10. Significant Plans for the Next Period:

We are considering an additional in person meeting at the IEEE PES Joint Technical Committee Meeting in early 2026. We are also planning additional webinars. The first of which is being planned for February on the topic of Composite Strip Grounding.

Submitted by: Theo Laughner, iGET CC Chair

Date: January 20, 2025