

Energy Internet Coordinating Committee (EICC)



WHO WE ARE

The EICC is a very active and Committee in the IEEE PES. We serve as a focal point within PES for the identification of challenges associated with Energy Internet (EI), also with other organizations to deal with similar challenges (such as CIGRE, CSEE, IET etc.) and establishes liaisons to coordinate and help identify the appropriate technical resources within the PES and other IEEE societies to address the issues.

The EICC accept papers and organize panel sessions at PES conferences such as PES GM. We also organize IEEE conferences (the IEEE conference on Energy Internet and Energy system Integration) annually, publish papers in IEEE and other journals, or jointly sponsored other activities to promote the sharing of knowledge and experience among diverse organizations working on similar issues.

The EICC serves as a focal point within IEEE PES for the identification of challenges associated with Energy Internet (EI).

The EICC also serves as the point of coordination for other organizations dealing with similar challenges (such as AWEA, CIGRE, DOE, ESIG, FERC, NERC, NREL, IEC, SEIA, and UN SDSN) and establishes liaisons to coordinate and help identify the appropriate technical resources within the PES and other IEEE societies to address the issues.

COMMITTEE SCOPE

The EICC aims at building the Energy Internet (EI), which is an energy ecosystem, with physical layer, information layer and value layer combining energy and carbon emission flows, in which the Internet thinking and emerging technologies reshape the traditional energy system, to make it low-carbon, safe, efficient, and open. We focus on the three layers of EI:

1. The physical layer, serves as an open and interconnected platform, which realizes the integration and comprehensive utilization of multiple energy sources of electricity, heat, cold, and gas.
2. The information layer, collects data from the physical layer, coordinates the system operation, and transmits valuable information to the value layer.
3. The value layer, features an innovative style of the energy system with openness. With the collected information and new energy business models, break market barriers and achieve a sharing economy market mechanism, realize P2P energy trading, carbon trading, virtual power plants, etc., and guide the operation of the physical layer.

WHAT'S NEXT

The EICC seeks opportunities to conduct jointly sponsored activities to promote the sharing of knowledge and experience among diverse organizations, e.g., annual onsite meeting at PES GM, IEEE EI2 conference, and online seminars.

JOIN US

Welcome to join in EICC! Anyone interested in making our energy systems an Energy Internet and learning more about EICC, as well as contributing to the Committee's work is welcome to join us. Join EICC to discuss with top academic/industrial experts/leaders, and coordinate with several big Technical Committees. EICC is sponsoring several conferences, organizing panels, and Task Forces with specific technical interests. Volunteers and participation are very much appreciated and highly encouraged in all kinds of activities.

