

Energy Internet Coordinating Committee (EICC)

Who We Are

The Energy Internet Coordinating Committee (EICC) reports to the IEEE Power and Energy Society Technical Council on matters concerning membership, technical publications, and recognition. The EICC, with direction from the Technical Council, serves as a focal point within PES to identify issues related to energy internet, coordinates with Technical Committees and external organizations that deal with similar issues, seeks opportunities for exchange of experiences and knowledge, and identifies needs for guides, best practices and standards.

The EICC is not a Technical Committee and therefore does not develop standards or guides. Rather, the EICC coordinates with the relevant Technical Committees on standards and other activities that are relevant to the EICC scope.

Committee Scope

The EICC serves as a focal point within IEEE PES for the identification of challenges associated with Energy Internet (EI). EI is a deep combination of energy system and the Internet, including:

1. Internet thinking reshaping the energy networks, based on synergy of multi-energy systems, including heating, cooling, gas, transportation as well as electricity; Energy routers, energy Hubs, multi-energy storages and plug-and-play techniques could be utilized to build an Internet-like energy grid
2. New Internet and IT techniques applications, such as new generation communication technologies, ubiquitous decentralized control units, Internet of Things, Blockchain, and new computing architecture coordinating between the cloud and the edge device
3. New energy policies and energy market based on sharing economy, e.g. energy P2P trading

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. The EICC seeks opportunities to conduct jointly sponsored activities to promote the sharing of knowledge and experience among diverse organizations working on similar issues through the conduct of studies, symposia, workshops, panel discussions, and tutorials.

The EICC identifies the need for guides, recommended practices, and standards with respect to EI. The EICC implements required actions through cooperation with an appropriate technical committee. The EICC does not develop standards.

For more information about this NEW coordinating committee, please visit:

IEEE-PES.ORG/TECHNICAL-ACTIVITIES