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Call For Papers

SPECIAL SESSION

## THE POTENTIAL OF DC DISTRIBUTION GRIDS TO UNLOCK TECHNICAL AND ECONOMIC BARRIERS FOR EMPOWERMENT OF THE ELECTRICITY USER

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**Objective and topics:** Several economic and technical barriers are still hindering or slow down the transition of the power system infrastructure towards an actual smart grid. Smart grid features such as seamless segmentation, self-healing and resilience under unexpected natural or man-made threats might be achieved however by large conglomerates of microgrids that form the larger smart grid. Accelerated deployment of renewable energy, especially at the power distribution layer and the expected same trend for storage technologies pave the path for faster adoption of DC distribution grids due to their technical and economic advantage in achieving the above mentioned smart grid features.

This special session aims to provide an overview of the state-of-the-art as well as to highlight current research directions and challenges in the specific field of DC distribution grids. Thus, the following topics, not limited to, are of interest within this special session:

- Advances in the research field DC microgrids: energy management, control, protection, regulatory aspects, standardization, etc.
- Low to medium voltage DC distribution grids: demonstration pilots or large projects worldwide;
- Business models for larger adoption of renewable and storage technologies merged on a common DC bus or DC subsystem.

All the instructions for paper submission are included in the conference website:

<https://www.eeeic.net/eeeic/>