



2017 Second IEEE International Conference on DC Microgrids (ICDCM)

June 27-29, 2017

Nuremberg, Germany

The Second ICDCM will be held in Germany, a hotbed of direct current (DC) power technology, following on the heels of a successful first conference in Atlanta, GA, USA in 2015. The conference aims to bring together industrial and researchers in the field of DC microgrids and related technologies to advance our understanding and capability for endpoint use of DC systems and technologies. Technical sessions will be arranged around focus areas – the use of DC systems with low voltages (up to 1500 V_{DC}) in kW power scale e.g. in residential and commercial buildings and MW power scale in industrial applications as a part of private or public installations with up to several thousand Volts.

DC systems facilitate the integration of variable speed drives and renewable or co-generation power sources, and the direct connection of energy storage systems with improved power reliability and efficiency. DC distribution power systems with intelligent ICTs have great potential to create more flexibility in managing local demand and generation, and stimulate consumers to actively participate in electricity market.

The benefits of DC microgrids powered by renewable resources such as solar PV systems can be especially dramatic in those parts of the world that don't already have power infrastructure.

Papers are solicited especially on the following topics in DC systems:

- DC Microgrids for transportation electrification
- Powering residential, commercial, and industrial spaces
- DC distribution grids and DC flexible links
- Integration of distributed energy resources and storage systems
- Standards and policies
- DC protection and safety
- Reliability and resiliency
- Stability, performance analysis and optimization
- Power control and routing
- Energy exchange and ancillary services
- DC-powered equipment and appliances
- DC-powered PHEV/EV interconnections of EV with DC Microgrids
- Components and devices for DC systems
- Active and passive smart solar houses using DC
- ICT, Real-time monitoring and control
- Total Cost of Ownership (TCO) and life-cycle economics comparison of AC and DC power systems

The conference will include oral presentations, poster sessions, panel sessions, and vendor shows.

- Extended summaries due: **November 22, 2016**
- Notification of acceptance/rejection decision: **February 2, 2017**
- Accepted full papers due: **April 30, 2017**

Additional information is available at: <http://www.icdcm.co>

Questions pertaining to ICDCM 2017 can be mailed to:

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