

Welcome Message from the Conference Chair

On behalf of the Organizing and Scientific Committee the Chair, Prof. Pierluigi Siano is honored and delighted to welcome you to the "International Conference on Renewable Energy 2020 (ICREN 2020)" conference to foster the progress in the field of renewable energy and electrical engineering studies by contributing with your expertise to what promises to be a very comprehensive and exciting virtual meeting.

The "International Conference on Renewable Energy 2020 (ICREN 2020)", which will be held during November 25-30, 2020 is now an established event, attracting global participant's intent on sharing, exchanging and exploring research and latest developments in the field of renewable energy and electrical engineering. The event will have 27 world level plenary speakers fresh contributed speakers and poster presentations.

The non-programmability characteristics of generation systems based on renewable energy sources, such as solar and wind power, together with the expected reduction in installed thermoelectric capacity, may cause problems in managing the electrical systems with a possible increase in grid congestion, being such generation systems located far from consumption centers. The lower use of thermoelectric capacity to the advantage of distributed generation will reduce the adequacy of the electrical systems and, in addition to providing for grid investments and long-term price signals for producers, it will be indispensable to implement the widespread of digital technologies in smart grids. In this new model, the provision of ancillary services to the Transmission System Operator (TSO) or Distribution System Operator (DSO) should take into account the possible flexibility furnished by new distributed resources including demand response, dispersed and small generators, also based on Renewable Energy Sources (RESs) and frequently endowed with small batteries Moreover, new frameworks should be designed to manage the interaction between aggregators and system operators.

We sincerely hope that ICREN 2020 serves as an international platform for meeting researchers from around the world, widen professional contact and create new opportunities, including establishing new collaborations.

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