

Special Issue

Integration and Control of Renewable Energy and Power Electronics for Future Power Systems

Message from the Guest Editors

Looking ahead to 2050, the goal of reducing emissions of greenhouse gases (e.g., CO₂) up to 80%–95% compared to values in 1990 has been set in order to avoid the increase of 2 °C. To meet this ambitious goal, countries should bet on a future framework in which 100% of electricity generation comes from renewable energy sources. Furthermore, to achieve such a target, large interconnections among different countries as well as different synchronous areas will be necessary in order to share renewable power generation with other systems. The main objective of this Special Issue is to discuss and disseminate the current work in this area as a showcase to the developed power electronics technologies (RES, ESS, EV), control methods, operation algorithms, market interaction, microgrids and simulation models, in particular (but not limited to):

Guest Editors

Dr. José Luis Domínguez-García

Dr. Cristina Corchero

Dr. Ayman Attia

Deadline for manuscript submissions

closed (28 February 2021)



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Editor-in-Chief

Prof. Dr. Marc A. Rosen

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