



Energy Efficiency in Power Lines

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Deadline for manuscript submissions:

closed (31 May 2022)

Message from the Guest Editors

Dear Colleagues,

Increasing the energy efficiency in power lines has become a critical issue to reach the goal of energy sustainability in upcoming decades. The addition of new renewable capacity and distributed generation and storage are challenging the electric grid with new and more complex requirements.

Furthermore, the electrification path to achieve a better sustainability in heat, transport and green energy production will make the efficiency of the main carrier, the electricity through the power lines, to become a very important issue in the next years. This Special Issue includes, but is not limited to, the following topics:

- Renewable energy integration;
- Dynamic line rating;
- New sensors, equipment and data acquisition of electric grid parameters;
- Good practices in power lines management;
- Energy backup systems;
- Electric vehicle integration;
- Smart grids;
- Distributed energy production;
- Energy storage systems;
- Equipment digitization;
- Electric grid management;
- Big data analysis;
- State of the art reviews of these topics are also welcomed





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