



Battery Energy Storage in Smart Grid

Guest Editors:

Dr. Francesco Conte

Department of Electrical,
Electronics and
Telecommunication Engineering
and Naval Architecture,
University of Genoa, 16145
Genova, Italy

Prof. Dr. Stefano Massucco

DITEN—University of Genoa, via
all'Opera Pia 11a, 16145 Genova,
Italy

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Message from the Guest Editors

Dear Colleagues,

Today, Battery Energy Storage Systems (BESSs) are gaining importance in all sectors of power system. They can be used for providing many services at generation level, such as energy arbitrage, contingency service, area control and frequency regulation, and at transmission and distribution levels, for supporting voltage regulation and providing synthetic inertia and oscillation damping. Moreover, BESSs can support the renewable integration since they can allow time shifting, grid frequency regulation services and fluctuation suppression.

It is therefore clear that BESSs will play a crucial role in the development of smart grids. With this Special Issue, we are looking for works that proposes and eventually validate, via real-time/real field experiments or co-simulation/hardware-in-the-loop simulations, strategy of management and control of BESSs providing efficient and multi-functional services to the grid, considering all possible future and current scenarios.

Dr. Francesco Conte

Prof. Dr. Stefano Massucco

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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