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Smart Grids in Railway Power Systems

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Message from the Guest Editor

Dear Colleagues,

Smart grids can be described as a trend for the modern power system to become increasingly integrated with modern data and communication based digital systems. Railway Power Systems represent one of the most sizeable loads on a national grid and as the technology matures, there is an opportunity to develop advanced power systems which improve both railway and national grid systems. The integration of renewable sources and energy storage, as well as the application of power electronics have the potential to completely transform railway power systems. Advanced control and protection systems also offer the potential to improve the performance of the system and lead to a more reliably railway. This Special Issue in *Energies*, will bring together the state-of-the art in smart grid technology as applied to railway power systems. A true smart grid will require advanced power system architectures which can provide bi-directional power flow, as well as facilitating multi-source power inputs. There will also be the requirement for new regulatory and economic approaches and full engagement with system users.



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Special Issue



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Message from the Editor-in-Chief

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