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Transaction-Based Peer-to-Peer Energy Management Systems

Guest Editors:

Prof. Malcolm D McCulloch

Department of Engineering Science, Energy and Power Group, Oxford University, Oxford, UK

Dr. Thomas Morstyn

Department of Engineering Science, University of Oxford, Oxford, UK

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Message from the Guest Editors

Power systems are undergoing a fundamental transition due to the rapid adoption of distributed energy resources, including photovoltaic generation, electric vehicles, home batteries, and heat pumps. Recently, there has been significant interest in the potential for new transactionbased peer-to-peer energy management systems to integrate prosumer flexibility into power system operations.

The aim of this Special Issue is to present state-of-the art research, solutions, and analysis in the field of transactionbased peer-to-peer energy management systems. Topics of interest include, but are not limited to:

- Communication architectures
- Computational complexity and scalability
- Coordination between energy trading platforms
- Data privacy and security
- Electricity market regulations
- Energy access and distributional issues
- Energy reliability
- Game-theoretic analysis
- Market mechanism design
- Microgrid trading platforms
- Modelling distributed energy resource flexibility
- Modelling prosumer preferences and behaviours
- Network costs and externalities
- New business models
- New energy and/or flexibility products
- Pilot programs and field tests
- Uncertainty a Stetrok enstrict assue





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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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