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Energy Efficiency and Resource-Efficient Technologies: From the Demand Side towards the Supply Side

Guest Editor:

Dr. Giorgio Besagni
Politecnico di Milano, Department of Energy, Via Lambruschini 4a, 20156 Milano, Italy

giorgio.besagni@polimi.it

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Message from the Guest Editor

Energy efficiency and the use of renewable energy sources are key goals of energy policies, to achieve a sustainable future. These targets can be reached by acting on the demand and/or supply side; the two sides are highly correlated and multi-disciplinary studies are needed to provide a complete understanding of the topic. For example, when considering the demand side in the residential sector, particular interest is devoted to energy poverty.

This SI aims to collect contributions of the state-of-the-art on field of (a) sustainable and resource-efficient technologies in both the residential and the industrial sectors and of (b) demand side description and modeling. Includes the following topics:

Residential sector

1. Energy efficiency in buildings
2. Energy consumption at the household level
3. Definitions, measures and policy implications of energy poverty

Industrial sector

4. Energy efficiency, energy recovery technologies
5. Energy and material recovery

Multi-disciplinary topics

6. Sustainable development, consumption, products and services
7. Efficient use of natural resources
8. Alternative and sustainable energy resources