Energy Flexible Buildings with Energy Conversion and Management Technologies

Message from the Guest Editors

Energy flexible buildings are important for achieving carbon neutrality of the building sector as the largest contributor of global final energy use and global carbon emissions. The energy flexibility of a building is the ability to manage its energy demand and energy supply according to local climate conditions, user needs, and grid requirements. The energy flexibility of buildings will thus allow for demand-side management and load control, and thereby demand response based on the requirements of the energy grids. Robust energy planning, advanced energy conversion and management strategies are essential for energy-flexible buildings with eco-economics feasibility.

We are organizing a Special Issue entitled “Energy Flexible Buildings with Energy Conversion and Management Technologies”, aimed at reporting the most recent new findings by researchers and sector professionals, in the scope of the following themes.

Special Issue Topics

- Model predictive control;
- Energy-flexible buildings;
- Demand response;
- Battery and hydrogen energy storage;
- Energy management strategy;
- Grid-responsive buildings.
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Contact Us

Applied Sciences
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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