

Special Issue

Energy Transition in the Urban Environment

Message from the Guest Editors

More than 50% of the world's population lives in cities and urban areas, which account for nearly 80% of the anthropogenic CO₂ emissions. To reduce global CO₂ emissions and limit the average temperature increase to less than 2 °C, as established by the Paris Agreement, it is required a massive scaling-up and acceleration of renewable energy in power generation, energy efficiency of industry and buildings, and the decarbonization of the transport sector. Furthermore, the recent energy crisis further stresses the urgency of these transformations towards more affordable, secure and sustainable energy. This Special Issue addresses the most recent scientific developments in the different areas that support the general action plan that will definitively transform the urban energy landscape in the ongoing transition. Topics of interest include, but are not limited to, urban planning, the potential of renewable energy sources in urban environments, positive-energy buildings and districts, local energy communities, smart grids and distributed energy systems, demand-response management, and the decarbonized mobility of people and goods.

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