



Carbon–Electricity Market, Energy Sharing and Consumptions for Communities

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Message from the Guest Editor

Renewable energy is a promising solution to the increasing energy crisis and environmental issues, and communities play a crucial role in the energy transition to a sustainable and low-carbon energy system. Currently, community energy consumption accounts for more than 30% of total social energy consumption, which has long been a key direction for energy system optimization. If households and enterprises work together to improve energy efficiency, the entire community will improve environmental and economic efficiency. In addition, energy sharing among communities is an important measure to alleviate energy shortage and promote the efficiency of renewable energy use. The carbon market and electricity market play an important role in encouraging community energy sharing and improving energy consumption efficiency. The rapid development of technology has expanded the ability of communities to jointly operate different energy sources. Research on community energy sharing and consumption is of great significance for achieving the goals of the Paris Agreement implemented in 2016.





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