

1. Introduction. China has proposed a carbon policy goal of achieving "carbon neutrality" by 2060 [1], [2], and the search for carbon neutral solutions has become a hot topic ...

In this paper, we construct two scenarios to analyse a carbon-neutral Chinese energy system in 2060. The first scenario focusses on electricity in order to decarbonise the ...

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power ...

Large-scale production of carbon-neutral and energy-dense liquid fuels may be critical to achieving a net-zero emissions energy system. Such fuels could provide a highly advantageous bridge between the stationary and ...

These statistics clearly indicate the increasing contribution of RESs to the global energy mix [5], establishing them as the preferred resources in the field of carbon-neutral ...

The Paris Agreement's central goal is to limit the increase in global average temperature to well below 2 °C above the preindustrial levels and to pursue efforts to limit it to ...

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