

16 kWh low-carbon economy

Solid waste becomes a major source of electricity in a cost-effective energy transition, rising from 0.81% in 2023 to 9.44% by 2053 under the 20% growth rate, then to 39.67% under the 30% growth ...


Low-carbon electricity or low-carbon power is electricity produced with substantially lower greenhouse gas emissions over the entire lifecycle than power generation using fossil fuels. [citation needed] The energy transition to low-carbon power is one of the most important actions required to limit climate change .

This paper summarizes the pathways of China's low carbon economy including the aspects of energy, industry, low carbon cities, circular economy and low carbon technology, afforestation and carbon sink, the carbon emission trading market and carbon emission reduction targets.

This paper focuses on the low-carbon economic operation of the integrated energy system under carbon trading mechanism in China. The integrated energy system includes the energy storage, ground source heat pump, and other equipment. The objective of this paper was to minimize the annual total cost of the system considering the carbon trading ...

Carbon pricing instruments, such as emission trading schemes (ETS) and carbon tax, are expected to incentivize the transition toward low-emission energy systems. By 2021, there are 64 carbon pricing instruments in place covering 21.5% of global greenhouse gas emissions, which is a considerable growth.

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Received 2020 Apr 26; Accepted 2020 Jun 4; Issue date 2020 Jun.

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Keywords: low-carbon economy, solar energy, environment, emission, development

This paper will examine the pathway towards a low-carbon economy by solar energy in China. There are mainly two different solar energy technologies, solar photovoltaic (PV) and solar water heaters (SWH), in china. Based on REN21's 2017 report, renewable energy has contributed 19.3% to humanity's global energy consumption and 24.5% to their generation of electricity in 2015 and 2016, respectively. This energy



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consumption can be further divided into 8.9% from traditional biomass, 4.2% as heat energy (modern biomass, geothermal and solar heat), 3.9% from hydroelectricity and the remaining 2.2% from electricity from wind, solar, geothermal and other forms of biomass.

For the past 200 years, fossil fuel has been used as the main energy driver for the growth and development of economies. The role of fossil fuel in growth and development has been well documented by researchers of long-term history as well as of modern day economic drivers of growth [13,14,15,16]. The main goal of modern energy sources for economic development are to give easy access to affordable, sustainable and modern energy sources [17]. Therefore, the main emphasis is on the creation and adoption of energy sources with low-carbon emissions, so that the natural environment is not harmed by them.

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