

Yangtze River Solar Photovoltaic Power Generation

Is solar energy a source of energy in China's Yangtze River economic belt?

Within China's Yangtze River Economic Belt, solar energy and river water, as clean and abundant sources of renewable energy, have garnered increasing. In this paper, a solar energy and surface water driven cogeneration system model is developed by TRNSYS to provide users with heat, cold and electricity.

Can new energy sources be used in the Yangtze River economic belt?

The research findings confirm the application potential of new energy sources in the Yangtze River Economic Belt and quantify the emission reduction effects of new environmental protection actions such as solar energy and river water heat sources.

Can low-carbon power plants sit in the Yangtze River Delta?

The main purpose of this study is to provide a comparative overview of the regional siting potential of various low-carbon power plants in the Yangtze River Delta of China. First, unsuitable zones for power plants are identified and excluded based on national regulations and landscape constraints.

What is the potential of solar power generation in China?

Chen et al. developed a comprehensive solar resource assessment system based on the GIS +MCDM method in 2019. This system was applied to the assessment of the potential of PV power generation in the countries under the "Belt and Road" initiative. The results showed that the PV potential of China is 100.8 PWh.

How is PV power generation potential assessed in China?

This study used a PV power generation potential assessment system based on Geographic Information Systems (GIS) and Multi-Criteria Decision Making (MCDM) methods to investigate the PV power generation potential in China.

What are the benefits of the Yangtze River?

The benefits of comprehensive utilization of solar energy and surface water and heat energy in the lower reaches of the Yangtze River are the largest, and the amount of carbon reduction is also the largest. In the middle and upper reaches of the Yangtze River, the utilization of surface water should be emphasized.

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