

Overview of Concentrated Solar Power Generation in China



Overview

China has become a global leader in the development of concentrating solar thermal power (CSP), taking advantage of state support, localized supply chains, and integration within hybrid renewable energy bases. By mid-2025, China's installed CSP capacity reached 1.14 GW, with a pipeline exceeding 8. Jun Wang, Key Laboratory of Solar Energy Science and Technology in Jiangsu Province, School of Energy and Environment, Southeast University, No. 2 Si Pai Lou, Nanjing 210096, China. 48 In the first half of 2022, roughly 31 GW of solar power were added to the grid in China. It is published annually as a March special issue of the China Energy Policy Newsletter.

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This review further proposes a strategic roadmap for sustainable development, emphasizing the integrated deployment of wind and solar as the dominant sources of power generation.



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Application scenarios of energy storage battery products

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Depending on solar concentration modes, commercially applied CSP systems can be classified into four main types, namely, solar tower systems, parabolic trough CSP systems, linear Fresnel CSP ...



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