



Grid modernization republic of china

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By 2025, China plans to reduce its national energy consumption to 13.5% per unit of GDP, according to its 14th Five-Year Plan. To achieve this goal, smart grids have attracted significant attention. In line with its national carbon neutrality commitments, China has significantly grown its capacity to generate and transmit renewable energy across the country.

China's investments in its transmission and distribution network are supporting the transfer of higher amounts of renewable energy across provinces and regions while significantly reducing transmission loss. This steady growth is projected to continue as renewable energy continues to attract more investment. In tandem, China's growing green finance market is improving access to green bonds and other financial tools, better enabling it to achieve its sustainability targets.

KPMG's report Smarter Grids: Powering decarbonisation through technology investment, analyses how smart grid technology enhances the operational efficiency of the grid and better integrates renewable energy. It assesses the smart grid outlook of three key markets for global investment in electricity grids - China, the UK, and the US - providing a deep dive into the policies that support smart grid implementation and the investments incentivised by these enabling policies.

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China Southern Power Grid has pledged to continue investing in digital power grid construction, including a digital grid across Guangdong, Yunnan, Guizhou and Hainan provinces and the Guangxi Zhuang autonomous region.

The company, one of the country's two major power grids, said it will invest more than 26 billion yuan (\$4.1 billion) in the construction of a digital power transmission network, the core of a new power system, during the 14th Five-Year Plan period (2021-25). It would ensure that the power system operates safely and stably,



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and optimizes the allocation of resources on a large scale.

By applying artificial intelligence, big data, simulation modeling and the internet of things, the network is expected to be more responsive in operation and dispatch, while digitalization can also provide support to the grid network's systems for early detection of problems and intelligent intervention, it said.

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