



Smart Microgrids in the 14th Five-Year Plan

Can Smart Grid technology power decarbonisation?

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.

How much money does the US spend on smart grids?

In late 2021, the United States Department of Energy (DOE) sought input on a USD10.5 billion programme for smart grids and other upgrades to strengthen the electricity grid. USD2.5 billion of this funding is allocated for grid resilience, USD3 billion for smart grids and USD5 billion for grid innovation.

What are the key markets for smart grid investment?

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.

What is a smart grid?

Smart grids co-ordinate the needs and capabilities of all generators, grid operators, end users and electricity market stakeholders to operate all parts of the system as efficiently as possible, minimising costs and environmental impacts while maximising system reliability, resilience, flexibility and stability.

Do smart grids need to double through 2030?

Investment in smart grids need to more than double through to 2030 to get on track with the Net Zero Emissions by 2050 (NZE) Scenario, especially in emerging market and developing economies (EMDEs). Several major economies have announced substantial new funding to modernise and digitalise their electricity grids

Which countries are investing in smart power grids in 2022?

Japan announced in 2022 a funding programme of USD155 billion to promote investments in smart power grids. India launched in 2022 an INR 3.03 trillion (Indian rupees) (~USD38 billion) scheme to support power distribution companies and improve distribution infrastructure.

The period covered by the 14th Five-Year Plan (2021-2025) is the first five years after China attained its first centenary goal of building a moderately prosperous society in all respects. ...

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This 14th Five-Year National Agricultural Green Development Plan is the first special plan for agricultural green development in China, with 28 Sections divided into 9 Chapters, covering ...

Following a week-long meeting, the National People's Congress (NPC) of China yesterday formalised the "outline for the 14th five year plan and long-term targets for 2035". In ...

2021 marks a special year in which China will achieve a moderately prosperous society, celebrate the 100th anniversary of the Communist Party of China and kick off its 14th Five- Year Plan ...

The Fourth session of the Thirteenth National People's Congress was held in the Great Hall of the People on March 5, 2021. The session reviewed the "Outline of the ...

China will further promote the development of a digital economy during the 14th Five-Year Plan (2021-25) period, according to a circular issued by the General Office of the ...

China's R& D spending will increase by more than 7% per year, which is expected to account for a higher percentage of GDP than that during the 13th Five-Year Plan period. In pursuing economic growth, we will continue to prioritize the ...

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The "14th Five-Year Plan" clearly mentions that during the "14th Five-Year Plan" period, China should speed up the intelligent transformation of power grid infrastructure and the construction ...

This Plan has been formulated on the basis of the "14th Five-Year Plan for National Economic and Social Development of the People's Republic of China and 2035 Long-Term Objective Planning," the "National ...



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