

## 2060 energy storage scale

What will China's energy demand look like in 2060?

With the improvement in energy efficiency, the total end-use energy demand of China will firstly increase and then decrease in the future, reaching a peak at around 2030 with 3449 million tons of coal equivalents (Mtce). The total end-use energy demand will reach 2498 Mtce in 2060. Fig. 3.

How will energy demand change in 2060?

Meanwhile, the proportion of green hydrogen and other energy in end-use energy will increase to approximately 10% and 15% in 2060, respectively. For primary energy, the demand for natural gas and coal will increase first and then decline while the oil demand will decrease from 2017 to 2060.

How many steel units will phase out in 2060?

Under the high steel output scenario, 170 steel units are expected to phase out between 2020 and 2060, while 487 units are retrofitted and only 113 units will maintain the status quo.

How will China's energy structure change in 2060?

The demand for non-fossil energy will increase to 100% in 2060. Overall, the energy structure of China will be optimized gradually. For the energy supply side, coal production will be greatly reduced, the coal production capacity will be concentrated, forming some large coal bases.

Can China scale up energy storage investments?

This study explores the challenges and opportunities of China's domestic and international roles in scaling up energy storage investments. China aims to increase its share of primary energy from renewable energy sources from 16.6% in 2021 to 25% by 2030, as outlined in the nationally determined contribution.

How many steel units will achieve net-zero emissions in 2060?

Furthermore, over 35% of steel units--219,223, and 189 units under the three scenarios--will achieve net-zero emissions. In contrast, fewer than 25% of the steel units--146,127, and 98 units under the three scenarios--will have carbon emissions exceeding 1 Mt year<sup>-1</sup> in 2060, yet they will account for over 95% of the sector's total emissions.



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