



# 460 kWh virtual power plant

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Virtual power plants are poised for big growth to address challenges posed by increased grid-connected renewable energy systems, and contribute to China's decarbonization goals, according to a recent report.

VPPs encompass networks of small energy-generating or storage devices, such as rooftop solar panels and batteries that are aggregated to connect to the electricity grid.

VPPs, by bundling together controllable loads and distributed energy storage sources, can supply immense power when demand for electricity exceeds supply. They play a critical role in reducing the power industry's dependence on fossil fuels and ensuring energy supply when more power is generated from intermittent wind and solar sources.

According to a report by the Natural Resources Defense Council, a global environmental protection organization, China's green commitment and rapidly developing new energy industry are fast-tracking the development of VPPs.

"With a higher proportion of power generated from new energy sources connecting to the grid, there is increasing demand for the power system's adjustment capacity and safe operation, which needs clean, flexible and economically viable new entities to navigate these challenges," said You Mengna, deputy director of NRDC China. "VPPs are highly anticipated in this regard."

Sinolink Securities has forecast that the scale of investment in VPPs will touch 80 billion yuan (\$11.24 billion) by 2025.

The industry has seen stronger policy support.

In 2021, an action plan by the State Council, China's Cabinet, outlined that further efforts will guide VPPs to join the new type of power system, or the government's initiative to promote the green and high-quality transition of the country's energy system.



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