

SolarTech Power Solutions

Will wind solar and energy storage bases boost the economy



Overview

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This report explores how economic forces, public policy, and market design have shaped the development of stand-alone grid-scale storage in the United States. Grid-scale storage can play an important role in providing reliable electricity supply, particularly on a system with increasing variable.

The opportunity is clear: with the right policy reforms, revenue mechanisms, and investment frameworks, energy storage can deliver near-term reliability, long-term resilience, and economic returns. In 2024, energy storage became one of the most dynamic and consequential forces shaping the US energy.

This analysis assesses many aspects of utility-scale wind, solar, and energy storage investments in Texas, including local tax collections, landowner payments, and the local sentiment surrounding these projects. We find that Renewables are a large, and growing, source of tax payments and revenue.

In our latest Short-Term Energy Outlook, we forecast that wind and solar energy will lead growth in U.S. power generation for the next two years. As a result of new solar projects coming on line this year, we forecast that U.S. solar power generation will grow 75% from 163 billion kilowatthours.

Study finds that the economic value of storage increases as variable renewable energy generation supplies an increasing share of electricity supply but storage cost declines needed to realize full potential MIT and Princeton University researchers find that the economic value of storage increases.

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