

Average wind solar storage price per 300MW in Greenland

Can energy storage improve solar and wind power?

With the falling costs of solar PV and wind power technologies, the focus is increasingly moving to the next stage of the energy transition and an energy systems approach, where energy storage can help integrate higher shares of solar and wind power.

Do storage technologies add value to solar and wind energy?

Some storage technologies today are shown to add value to solar and wind energy, but cost reduction is needed to reach widespread profitability.

How much does a wind or solar generation cost?

Results are shown for a wind or solar generation cost of US\$1 W⁻¹ and of US\$50 kW⁻¹ and US\$50 kWh⁻¹, respectively.

What is the power to energy cost trade-off of storage technologies?

The power to energy cost trade-off of storage technologies is also similar across the two energy resources. This means that the direction of optimal improvement in energy and power costs is similar across the three locations and two energy resources for any given storage technology.

How does energy storage affect the selling price of solar energy?

The average selling price without storage is lower for wind than solar, but as the energy storage increases in size (per unit rated power of solar or wind generation), the pricing distribution and mean selling price become increasingly similar across the two energy resources (Supplementary Figs 6-8).

Can energy storage transform intermittent renewables?

Energy storage can transform intermittent renewables for this purpose but cost improvement is needed. Evaluating diverse storage technologies on a common scale has proved a major challenge, however, owing to their widely varying performance along the two dimensions of energy and power costs.



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