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The value of distributed energy storage today





Overview

What is the market potential for diurnal energy storage?

Analysts find significant market potential for diurnal energy storage across a variety of scenarios using different cost and performance assumptions for storage, wind, solar photovoltaics (PV), and natural gas.

Is energy storage the future?

The key conclusion of the research is that deployment of energy storage has the potential to increase significantly—reaching at least five times today's capacity by 2050—and storage will likely play an integral role in determining the cost-optimal grid mix of the future.

What are the benefits of distributed energy resources?

Distributed energy resources offer multiple benefits to consumers, support decarbonisation, and improve resilience. The primary beneficiaries of DERs are the consumers who own them. Distributed PV can supply affordable electricity to households and businesses, reducing their dependence on the grid.

What are energy storage systems?

Energy storage systems (ESSs) deployed at different levels of the electrical grid serve different functions. For example, a BESS located at a distribution substation may offer both ancillary-based and distribution-based benefits.



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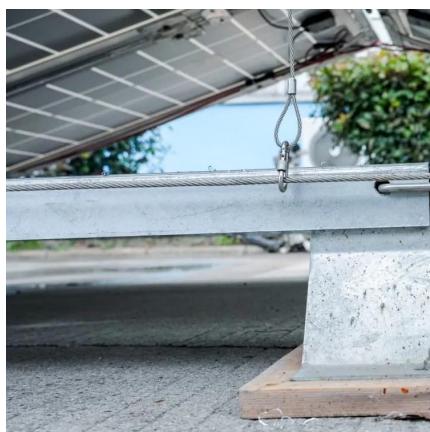
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Understanding the Value of Energy Storage for Power ...

Customer Damage Functions and Value of Lost Load
Stated Preference
Techniques
Macroeconomic Models
To address the broader economic impacts of service disruptions, some studies employ input-output (I-O) and computable general equilibrium (CGE) models. An I-O model captures inter-industry relationships within an economic system in order to determine how an impact on one industry cascades throughout an economy. In addition to direct economic impact See more on link.springer IEA - International Energy Agency

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