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Energy storage system profitability

Is energy storage a profitable business model?

Although academic analysis finds that business models for energy storage are largely unprofitable, annual deployment of storage capacity is globally on the rise (IEA,2020). One reason may be generous subsidy support and non-financial drivers like a first-mover advantage (Wood Mackenzie, 2019).

Do investors underestimate the value of energy storage?

While energy storage is already being deployed to support grids across major power markets,new McKinsey analysis suggests investors often underestimatethe value of energy storage in their business cases.

How can energy storage be profitable?

Where a profitable application of energy storage requires saving of costs or deferral of investments, direct mechanisms, such as subsidies and rebates, will be effective. For applications dependent on price arbitrage, the existence and access to variable market prices are essential.

How do business models of energy storage work?

Building upon both strands of work, we propose to characterize business models of energy storage as the combination of an application of storage with the revenue stream earned from the operation and the market role of the investor.

Why should you invest in energy storage?

Investment in energy storage can enable them to meet the contracted amount of electricity more accurately and avoid penalties charged for deviations. Revenue streams are decisive to distinguish business models when one application applies to the same market role multiple times.

Does storage capacity improve investment conditions?

Recent deployments of storage capacity confirm the trend for improved investment conditions (U.S. Department of Energy, 2020). For instance, the Imperial Irrigation District in El Centro, California, installed 30 MW of battery storage for Frequency containment, Schedule flexibility, and Black start energy in 2017.

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Owners of renewable energy resources (RES) often choose to invest in energy storage for joint operation with RES to maximize profitability. Standalone entities also invest in energy storage ...



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