



The reason why energy storage power supplies make huge profits

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 underestimate the 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.

Can energy storage provide multiple services?

The California Public Utilities Commission (CPUC) took a first step and published a framework of eleven rules prescribing when energy storage is allowed to provide multiple services. The framework delineates which combinations are permitted and how business models should be prioritized (American Public Power Association, 2018).

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.

Which technologies convert electrical energy to storable energy?

These technologies convert electrical energy to various forms of storable energy. For mechanical storage, we focus on flywheels, pumped hydro, and compressed air energy storage (CAES). Thermal storage refers to molten salt technology. Chemical storage technologies include supercapacitors, batteries, and hydrogen.



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