

Profit model of energy storage batteries





Overview

What are business models for energy storage?

Business Models for Energy Storage Rows display market roles, columns reflect types of revenue streams, and boxes specify the business model around an application. Each of the three parameters is useful to systematically differentiate investment opportunities for energy storage in terms of applicable business models.

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).

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.

Are batteries a green business model?

Of the 19 examined business models 14 are now green. Batteries contribute 6 green business models, of which 5 have flipped from red to green in comparison with Figure 2. These green business models include Trading arbitrage, Production forecast, as well as Frequency containment/restoration on a trading and T&D level.



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