



# Energy storage semiconductor profit analysis

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.

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 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.

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.

Is memory a key factor in future semiconductor industry growth?

As the digital economy expands, the share of total semiconductor revenue attributed to memory is expected to increase from 18% in 2008 to an estimated 25% by 2024.<sup>2</sup> This rising demand for efficient data storage and processing underscores memory's role as a significant factor in future semiconductor industry growth.

How much is the semiconductor market worth?

The semiconductor market is expected to reach \$1 trillion in value by 2030. While manufacturing is concentrated in a few locations, other stages of the value chain involve companies in multiple countries. 1Intellectual property/electronic design automation. Source: Gartner the end-to-end process for creating a semiconductor involves a global effort.



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