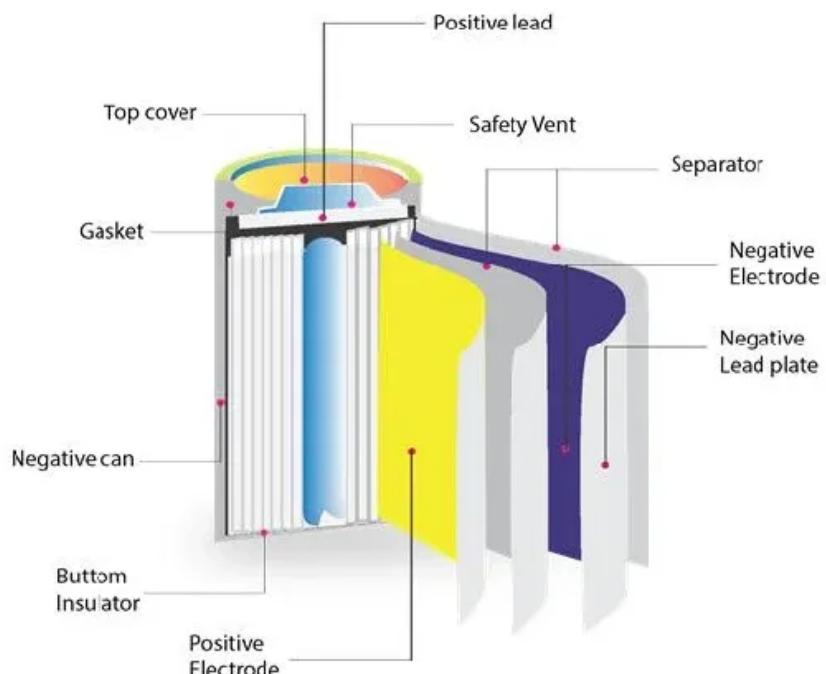


SolarGrid Energy Solutions

What are the energy storage power sources that can make money



Overview

There are three main ways that grid-scale energy storage resources (ESR's) can make money: energy price arbitrage, ancillary grid services, and resource adequacy. Can energy storage make money?

Energy storage can make money right now. Finding the opportunities requires digging into real-world data. Energy storage is a favorite technology of the future—for good reasons. What is energy storage?

Energy storage absorbs and then releases power so it can be generated at one time and used at another.

What are the benefits of energy storage?

There are four major benefits to energy storage. First, it can be used to smooth the flow of power, which can increase or decrease in unpredictable ways. Second, storage can be integrated into electricity systems so that if a main source of power fails, it provides a backup service, improving reliability.

What is the 'value stack' in energy storage?

Owners of batteries, including storage facilities that are co-located with solar or wind projects, derive revenue under multiple contracts and generate multiple layers of revenue or 'value stack.' Developers then seek financing based on anticipated cash flows from all or a portion of the components of this value stack.

Why do we need energy storage systems?

Since renewable energy is intermittent—meaning it doesn't always generate electricity when demand is high—ESS store excess energy for later use. This improves the reliability of renewable energy, allowing us to use clean power even when the sun isn't shining or the wind isn't blowing. Energy storage systems can save you money in a variety of ways.

How do energy storage systems save you money?

Energy storage systems can save you money in a variety of ways. By storing energy during off-peak hours (when electricity is cheaper) and using it during peak demand times (when electricity is more expensive), you can lower your electricity bills.

How does energy storage work?

Energy storage can be used to lower peak consumption (the highest amount of power a customer draws from the grid), thus reducing the amount customers pay for demand charges. Our model calculates that in North America, the break-even point for most customers paying a demand charge is about \$9 per kilowatt.

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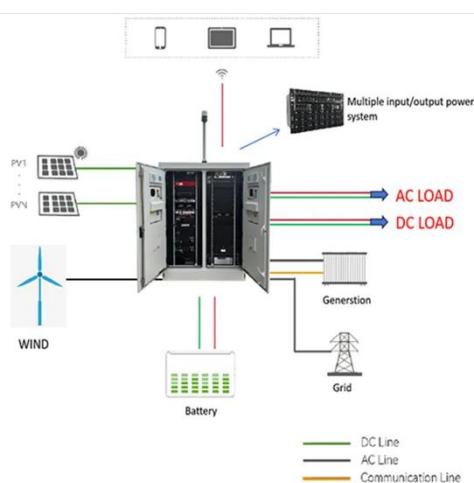


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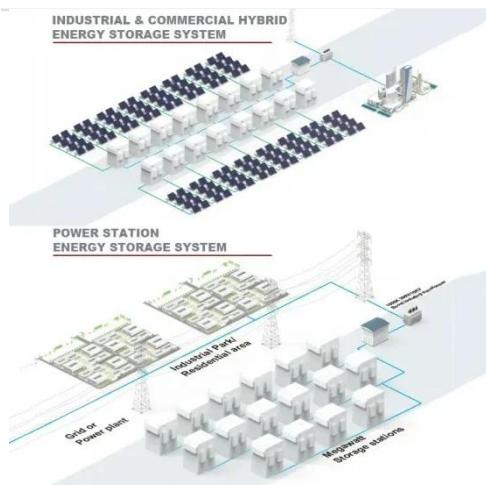


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The new economics of energy storage , McKinsey

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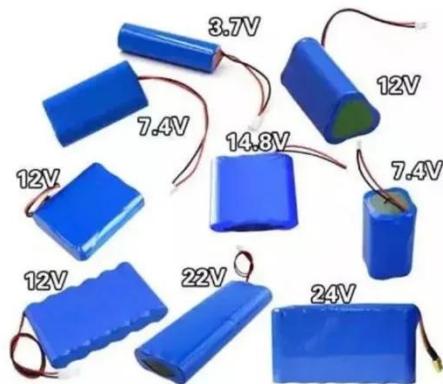
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Storage can improve power trades by buying at low and selling at high prices, including the utilization of surplus power from an onsite renewable energy source.



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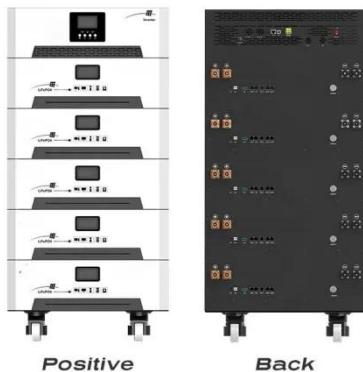


Energy Sources

The sun's rays are reflected and concentrated in order to boil water to make steam. This steam drives a turbine, creating electricity. Alternatively, the sun's ...

Renewable Energy Storage Systems

Efficient renewable energy storage systems enhance grid stability, store excess energy from solar and wind, and ensure a reliable, sustainable power supply.



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Energy storage is an enabling technology, which - when paired with energy generated using renewable resources - can save consumers money, improve ...



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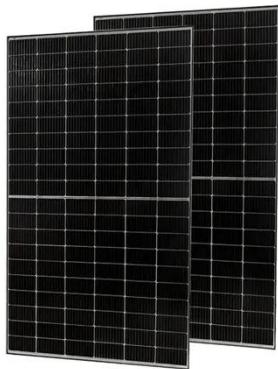
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