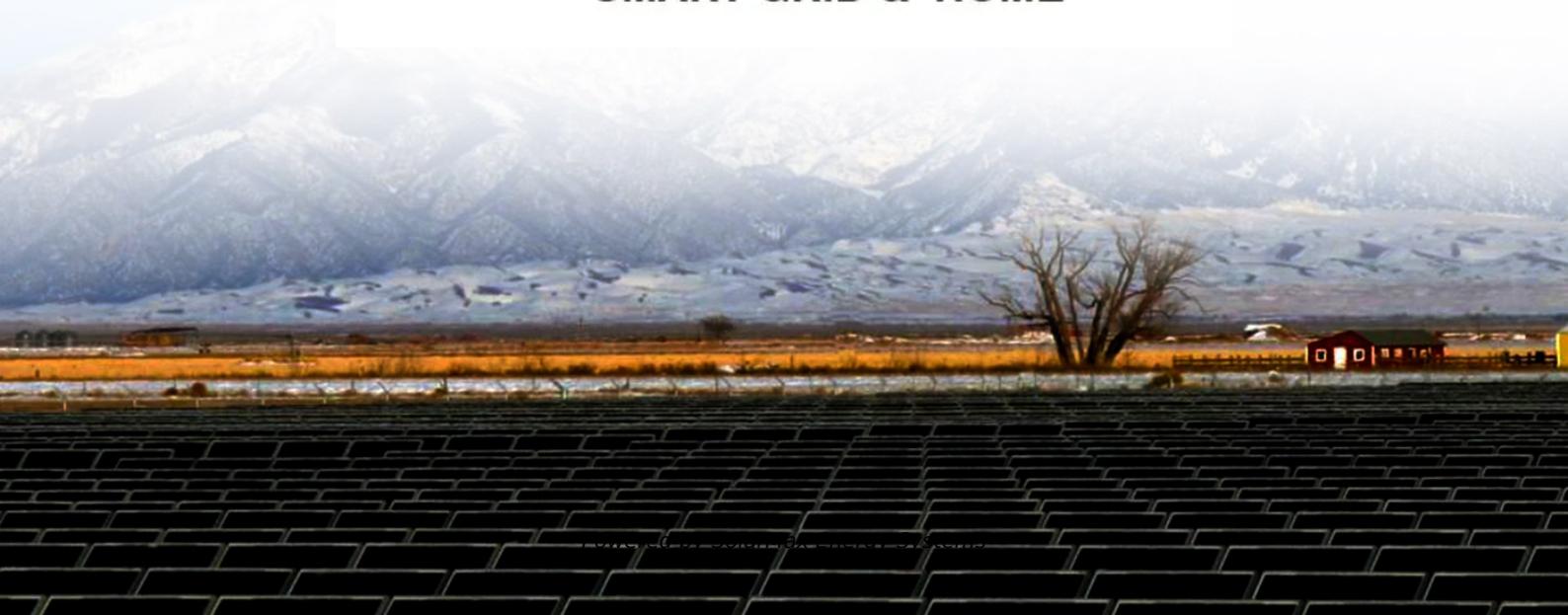


SolarMax Energy Systems

Wind Solar and Storage Recommendations



Overview

Should I use solar or wind energy?

Wind energy can also benefit from storage integration, though the variable nature of wind makes storage sizing more complex than with solar applications. Choosing between solar and wind energy requires careful consideration of your specific circumstances, goals, and resources.

Do storage technologies add value to solar and wind energy?

Some storage technologies today are shown to add value to solar and wind energy, but cost reduction is needed to reach widespread profitability.

Is solar energy better than wind energy?

The decision between solar energy and wind energy ultimately depends on your specific circumstances, but for most homeowners and businesses, solar energy offers the most practical, cost-effective path to renewable energy.

Is solar storage more valuable than wind?

Storage is more valuable for wind than solar in two out of the three locations studied (Texas and Massachusetts), but across all locations the benefit from storage is roughly similar across the two energy resources, in terms of the percentage increase in value due to the incorporation of optimally sized storage.

Why do we need a modern energy storage system?

Modern storage systems enable peak-generated energy to be stored and used during low-generation periods. In the long term, the goal is for these systems to become large enough to replace “peaker” plants, which currently provide energy during high demand hours, as a backup to ensure grid stability.

Does storage increase the value of a solar or wind plant?

Storage can increase the revenue generated by a solar or wind plant, but it also increases the capital costs of the plant. Here we optimize both the discharging behaviour, as done above, and the storage system size, to maximize the value of the electricity generation.

Wind Solar and Storage Recommendations



STORAGE FOR POWER SYSTEMS

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The Impact of Wind and Solar on the Value of Energy Storage

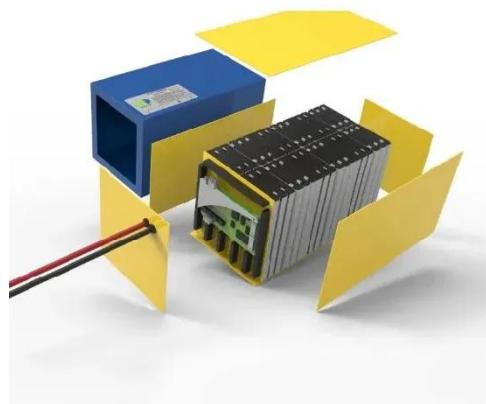
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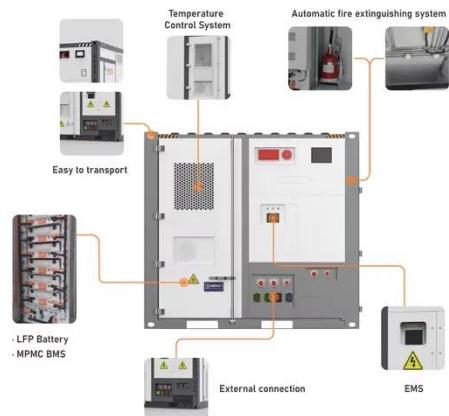
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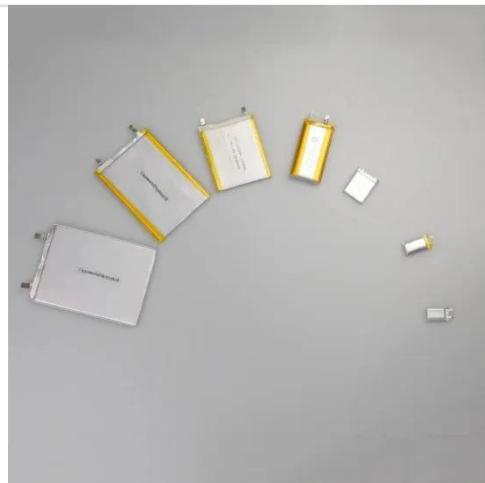
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