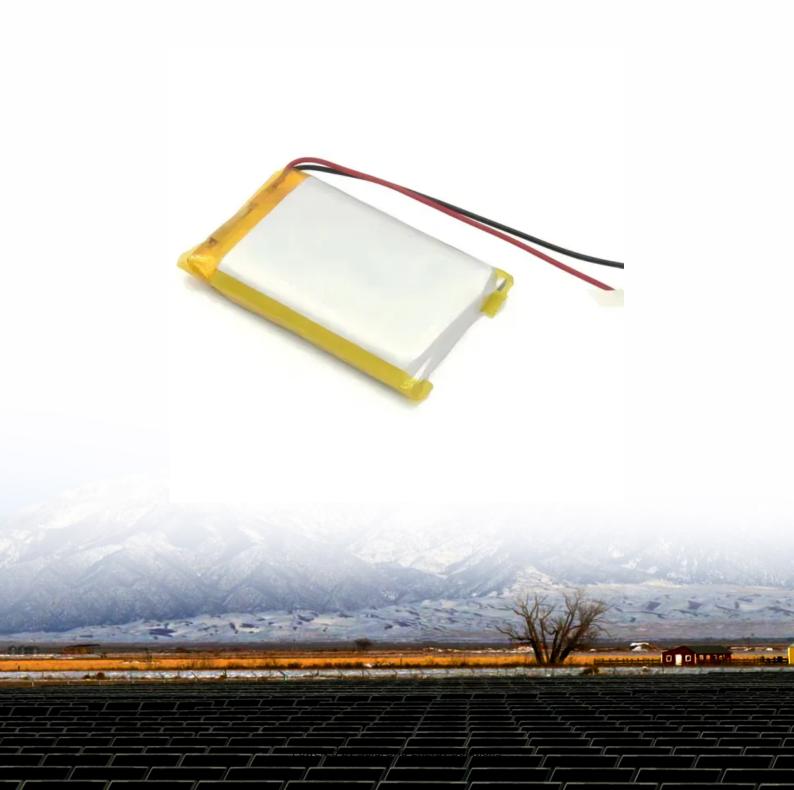


SolarGrid Energy Solutions

On-site energy solar power supply solution design





Overview

What is on-site energy solutions?

portant On-Site Energy Solutionsenergy supply, storage, and management solutions for enterprise of all sizes and needs. We integrate new technologies, such as turbines and solar arrays, with existing assets to create manageable microgrids that keep your power on whe of power.

How can on-site solar PV & energy storage improve sustainability?

To achieve sustainability goals while meeting the increasing electricity demands of electrification, organizations are pairing on-site solar PV generation with on-site energy storage. These systems, which are considered as "behind-the-meter" (BTM) systems, allow facilities to maximize the benefits of on-site renewable generation.

What is on-site energy system?

r on-site energy system. Storage technology helps optimize the performance of all assets by stabilizi g frequency and voltage. It can also be used to mitigate the intermittency of renewable assets, like wind and solar, storing energy when it is sunny or windy, and rele.

Can solar energy storage systems improve self-consumption and selfsufficiency?

As energy storage systems are typically not installed with residential solar photovoltaic (PV) systems, any "excess" solar energy exceeding the house load remains unharvested or is exported to the grid. This paper introduces an approach towards a system design for improved PV self-consumption and self-sufficiency.

Can on-site storage be used alongside solar PV?

If a utility restricts the exports from a facility to the grid, the use of on-site storage alongside solar PV can provide a solution to avoid costly infrastructure



upgrades, thus increasing the feasibility of larger on-site PV installations.

What are the benefits of an on-site solar PV system?

For the scenario represented in the graph, an on-site solar PV system allows the facility to reduce the amount of electricity drawn from the grid during the middle of the day. Increasing the amount of solar PV production on-site can provide additional cost and emission reductions and resiliency benefits for facilities.



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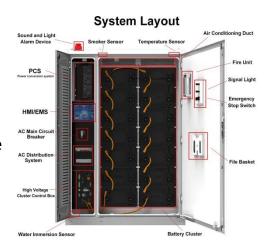
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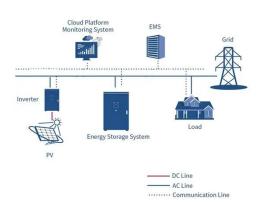
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On-site Energy Solutions

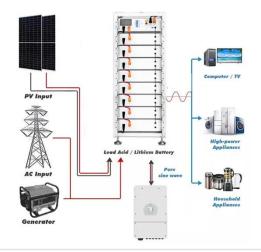
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