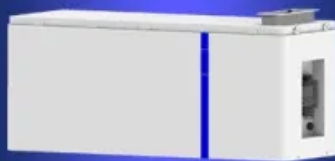


SolarMax Energy Systems

Photovoltaic outdoor on-site energy plus solar energy

ESS

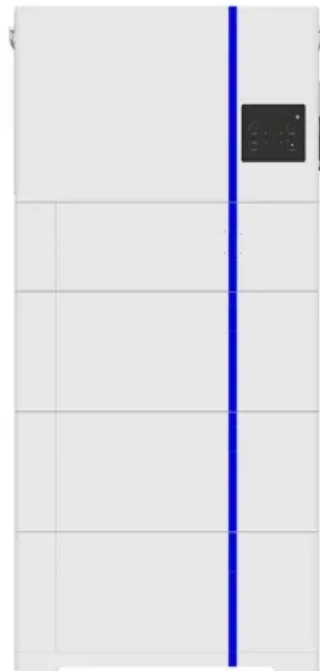
AI-W5.1-B (Battery Module)



AI-W5.1-PDU3-B



AI-W5.1-Base (Battery Base)



Overview

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.

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.

What is on-site renewable generation?

On-site renewable generation refers to the production of clean and sustainable energy from renewable sources at or near the location where it is consumed. It involves setting up renewable energy systems like solar panels, wind turbines, or small-scale hydroelectric generators to generate electricity on-site.

What are the advantages and disadvantages of on-site solar generation?

On-site solar generation brings numerous advantages, some of which are as follows- 1. Cost Savings: By generating their own electricity on-site, individuals and businesses can reduce their reliance on the grid and save on energy

costs, especially in areas with high electricity rates. 2.

Should solar PV production be reduced on-site?

Increasing the amount of solar PV production on-site can provide additional cost and emission reductions and resiliency benefits for facilities. However, the additional generation that can result from larger systems during peak daylight hours must be exported or managed through curtailment on-site.

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1mwh (500kw/1mw)

AIR COOLING
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Onsite Solar 101 , Trio

Onsite solar is an asset located where the renewable energy generated will also be consumed. There are three main types of onsite solar: rooftop, ground-mount, and carport.

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Onsite Solar , ENGIE Impact

It involves the deployment of solar panels or photovoltaic (PV) modules on rooftops, parking lots, or other available spaces on the property. On-site solar ...

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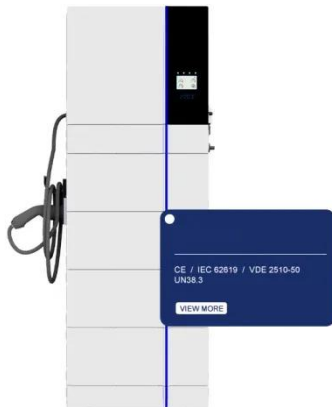
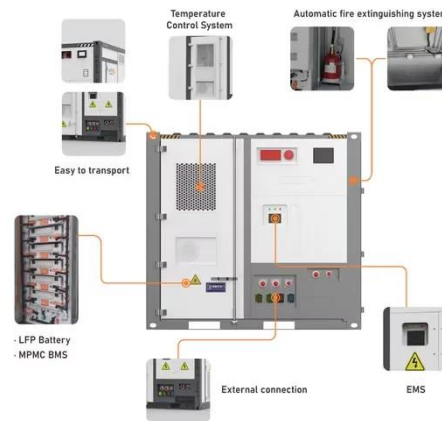
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, Veolia North America

Reduce utility costs, achieve energy independence and meet sustainability goals with renewable on-site solar power- and even sell surplus energy back to the

...

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Solar Photovoltaic Power Plant , PV plants Explained

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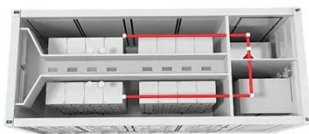
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Onsite Energy , Better Buildings Initiative

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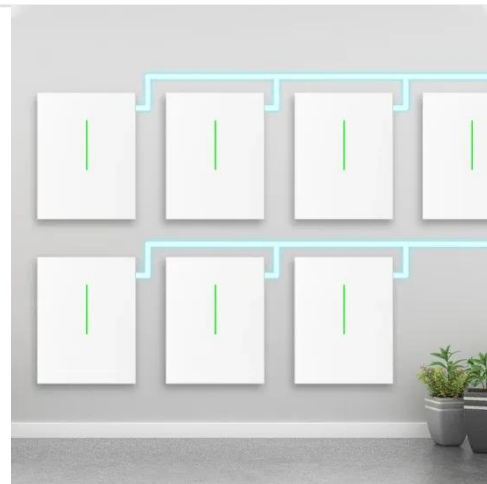
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If a utility restricts the exports from a facility to the grid, the use of on-site storage alongside solar PV can provide a

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PV Energy Storage System Applications , EB BLOG

Integration of photovoltaic (PV) systems and energy storage is a promising development in renewable energy. As solar capacity connected to ...

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Solar Energy , U.S. Geological Survey

The United States Large-Scale Solar Photovoltaic Database (USPVDB) provides the locations and array boundaries of U.S. ground-mounted photovoltaic (PV) facilities with ...

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On-site vs. Off-site Renewables

Both on- and off-site projects can include but are not limited to solar farms, biomass, landfill gas, hydro, and wind,

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This fact sheet explores how to maximize the advantages of onsite renewable energy generation, specifically focusing on solar photovoltaic (PV) systems.

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