



IMK CONTAINERS

Solar onsite energy storage dual solar





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.

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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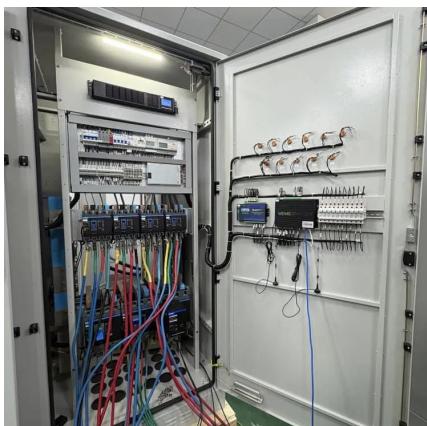
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Solar FAQs

Backed by 15 years of experience, we have answers to your solar frequently asked questions to help determine if solar is right for you.

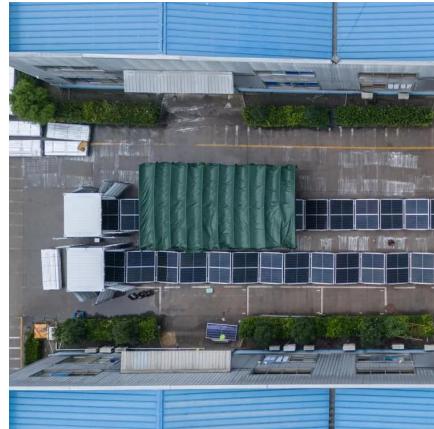
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These stations effectively enhance solar energy utilization, reduce costs, and save energy from both user and energy perspectives, contributing to the achievement of the "dual ...

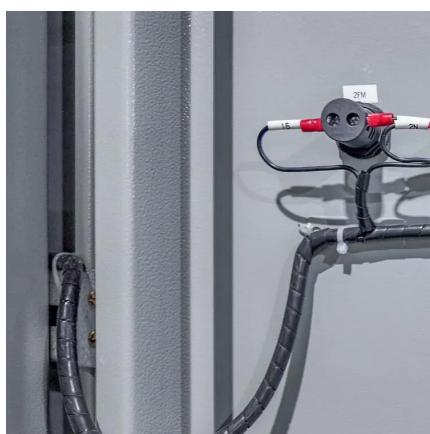
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Figure 4 shows a facility using a portion of the on-site solar PV generation to charge an on-site battery energy storage (BES) system to manage the excess generation.

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Co-location of solar energy and energy storage by definition is storing energy close to where it is generated (Biggins, et al., 2023). This is where HYSTORE's PCM Heating solution becomes attractive to facilitate ...

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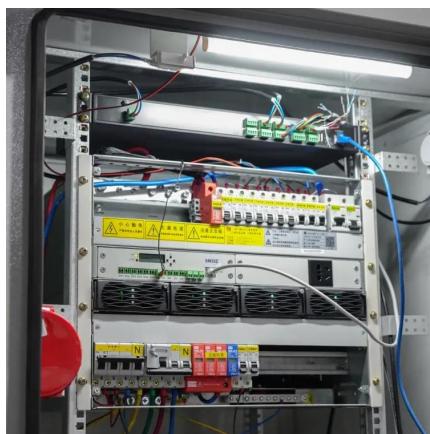
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