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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.

Do larger on-site solar PV systems reduce peak load?

Additionally, larger on-site solar PV systems may not significantly reduce the peak load required from the grid. As seen by comparing Figures 2 and 3, the peak net load that the facility draws from the grid remains around 140 kW.

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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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Onsite energy can encompass a broad range of technologies suitable for deployment at industrial facilities and other large energy users, including battery storage, combined heat ...

What is onsite solar? Onsite solar is an asset installed in the same location where the energy generated will be consumed. For each ...

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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