

Solar Powered Onsite Energy Policy





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.

What is on-site power generation & why is it important?

On-site power generation is becoming a core strategy for large energy users to manage rising capacity costs, protect against outages, and advance sustainability initiatives. Whether through solar, CHP, batteries, or a hybrid approach, businesses have more tools than ever to take control of their energy future.

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.

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.

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 energy & how does it work?

On-site generation reduces these risks by producing energy directly at the facility, lowering transmission losses and offering the flexibility to operate in tandem with or independently from the grid. What's Driving The Shift To On-Site Energy?

There are several factors contributing to the widespread adoption of distributed generation, including:



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[Onsite Energy Technology Fact Sheets , Better Buildings Initiative](#)

The onsite energy technologies include battery storage, combined heat and power (CHP), district energy, fuel cells, geothermal, industrial heat pumps, renewable fuels, solar photovoltaics ...

[What You Need To Know About Solar Power In Winter , OnSite Energy](#)

Dive into the benefits of shorter winter days with net metering, allowing you to store excess summer energy for winter use. Additionally, discover why winter is an opportune time for solar ...



[Onsite Energy Program: Technical Assistance to Adopt ...](#)

The Onsite Energy Program is part of a broad portfolio of technical assistance programs at DOE that are designed to help industrial facilities become more energy efficient, reduce emissions, ...

[Onsite Solar Programs: A Low-Cost High-Impact... , ENGIE Impact](#)

Any energy not consumed in situ may be valorized by injecting it into the power grid, depending on the local regulatory framework, or



sharing it with neighboring businesses. These ...



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