



# Solar Outdoor On-site Energy Function

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.

Do on-site solar systems work everywhere?

However, many on-site systems simply can't scale large enough to cover full consumption needs, so they typically only cover a percentage of the facility's needs, relying on traditional electricity to cover the deficit. They also don't work everywhere as solar and wind resource varies from location to location, as well as incentives and rebates.

What are the benefits of generating electricity on-site?

**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. Energy Independence:** On-site renewable generation allows people to become more self-sufficient in meeting their energy needs.

Do off-site solar and wind projects work everywhere?

They also don't work everywhere as solar and wind resource varies from location to location, as well as incentives and rebates. Large energy consumers are increasingly looking to procure their renewable energy from off-site projects.

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 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.**

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