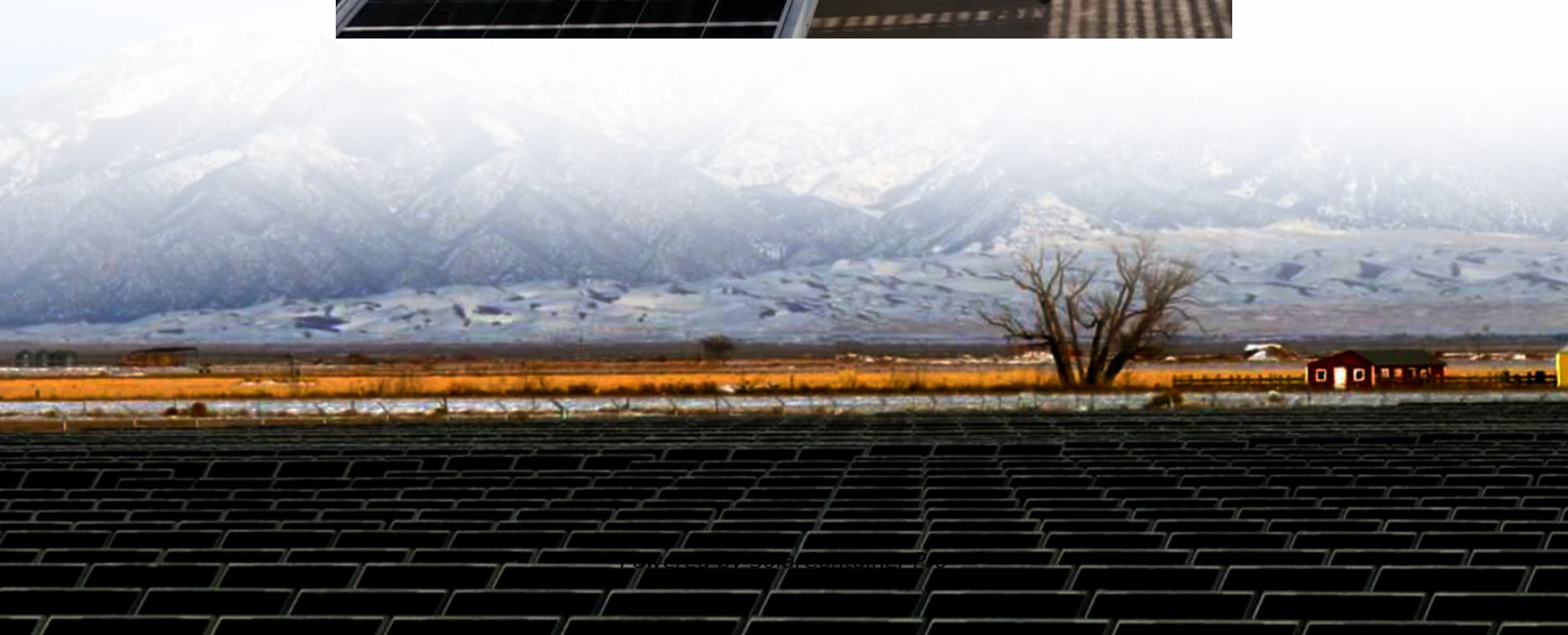


# **Solar Smart Onsite Energy**





## Overview

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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.

What is Onsite Energy?

Onsite energy refers to electric and thermal energy generation and storage technologies that are physically located at a facility and provide alternative energy services directly to the 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 are the benefits of on-site energy?

**Cost Savings:** On-site energy can lead to significant cost savings for businesses and organizations, thanks to renewable energy and reduced transmission losses that occur when electricity travels over long distances.

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.



## Solar Smart Onsite Energy

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### How Onsite Power Plants & Microgrids are Revolutionizing Energy ...

Developers and operators are increasingly turning to innovative solutions like onsite power plants and microgrids to meet energy demands efficiently and responsibly.

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### Onsite energy for data centers: Finding solutions for future power

New energy solutions for data centers are likely to be more than just a stop-gap solution with facilities built onsite rather than previous solutions that are in a different location.

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### 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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### Maximizing Clean Energy Value Today and Into the Future: How ...

3 days ago · Join experts from Onyx Renewables for a webinar unpacking how energy buyers can act quickly to make the most of onsite solar --





and how cost saving and sustainability benefits ...

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### **Onsite Energy Technologies , Better Buildings Initiative**

Onsite energy refers to electric and thermal energy generation and storage technologies that are physically located at a facility and provide alternative energy services directly to the site.

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### **Maximizing the Benefits of On-Site Renewable Energy ...**

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.

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### **Maximizing the Benefits of Onsite Renewable Energy Generation ...**

Facility owners seeking to reduce their operating costs, lower greenhouse gas emissions, and build resiliency at their facilities can benefit from installing onsite renewable ...

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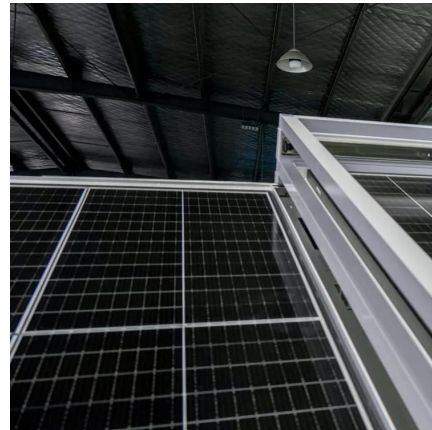




### **MSU's Solar Carport receives the Smart Energy Decisions Onsite**

Michigan State University's solar carport project received high praise at the Smart Energy Decisions Innovation Summit 2018. During the inaugural innovation awards event ...

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