



What Are the Supporting Options for On-site Solar Energy

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 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.

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 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.

How does a solar PV array affect net load?

Graph showing production from an on-site solar PV array, the charge/discharge of both a battery and thermal storage system, and their effect on the net load. The combination of storage types allows the facility to further reduce excess generation. Net Load (required from grid)

Although several options are available for on-site renewable generation, and the best solution can vary from one location to another, this resource focuses on solar photovoltaic (PV) systems as ...

Back up your home with a home battery and install solar to be energy independent from the grid. Get a solar quote or learn about Tesla energy ...

In an earlier article, we reviewed the three most typical models available to businesses for buying solar power:



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customer-owned on-site, third ...

Renewable energy generation can occur on-site (e.g. rooftop solar, micro-wind) or off-site (e.g. utility-scale renewables, community solar). An organization's ...

In an earlier article, we reviewed the three most typical models available to businesses for buying solar power: customer-owned on-site, third-party on-site, and ...

What is Community Solar? The U.S. Department of Energy defines community solar as any solar project or purchasing program, within a geographic area, in ...

At Revel Energy, we specialize in designing and building high-performance commercial rooftop solar systems that transform unused roof space into powerful energy assets. With rising ...

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

Continuing to Support Solar Deployment at Military Installations: The Department of Defense - the single largest consumer of energy in the United States -committed to deploying ...

Explore the differences between on-site and off-site solar energy systems, their benefits, costs, and which option suits your home or business ...

Simple Solar Increase your positive environmental impact and support the growth of solar energy and projects! Match your monthly energy usage with ...

From assisting you in finding incentives and funding to the design, implementation, and digital tracking of your cost savings and GHG KPIs, ...

DOE's 10 regional Onsite Energy TAPs provide technical assistance to end users and other stakeholders about technology options for achieving onsite energy objectives.

To help agencies assess the viability of on-site distributed energy projects, the Federal Energy Management Program (FEMP) offers a variety of renewable ...

Onsite solar is an asset located where the renewable energy generated will also be consumed. There are three main types of onsite solar: rooftop, ground-mount, and carport.

Commercial organizations are under increasing pressure to make better use of clean, renewable energy options. While solar is an increasingly popular ...



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The International Renewable Energy Agency (IRENA) is an intergovernmental organisation supporting countries in their transition to a sustainable energy future.

New York State is making solar energy more accessible to homes, businesses, and communities through NY-Sun incentives and a network of qualified ...

It involves the deployment of solar panels or photovoltaic (PV) modules on rooftops, parking lots, or other available spaces on the property. On-site solar installations can vary in size, from ...

Dive into the key benefits of onsite and offsite solar energy solutions and identify what's the best fit for your business.

Since on-site solar systems are co-located with city facilities, they offer some unique features and advantages - including visibility and educational opportunities, lower utility bills, and--when ...

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Community Solar vs. Green Power Plans Retail green power plans allow customers to purchase renewable energy certificates (RECs) but typically cost more than standard ...

Onsite solar is an asset located where the renewable energy generated will also be consumed. There are three main types of onsite solar: rooftop, ground ...

Federal, state, local, and utility incentives can help dramatically offset the initial costs of your solar system.

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What are some common misconceptions about participating in solar community initiatives? Some common misconceptions include the belief that solar energy ...

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 and power ...

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