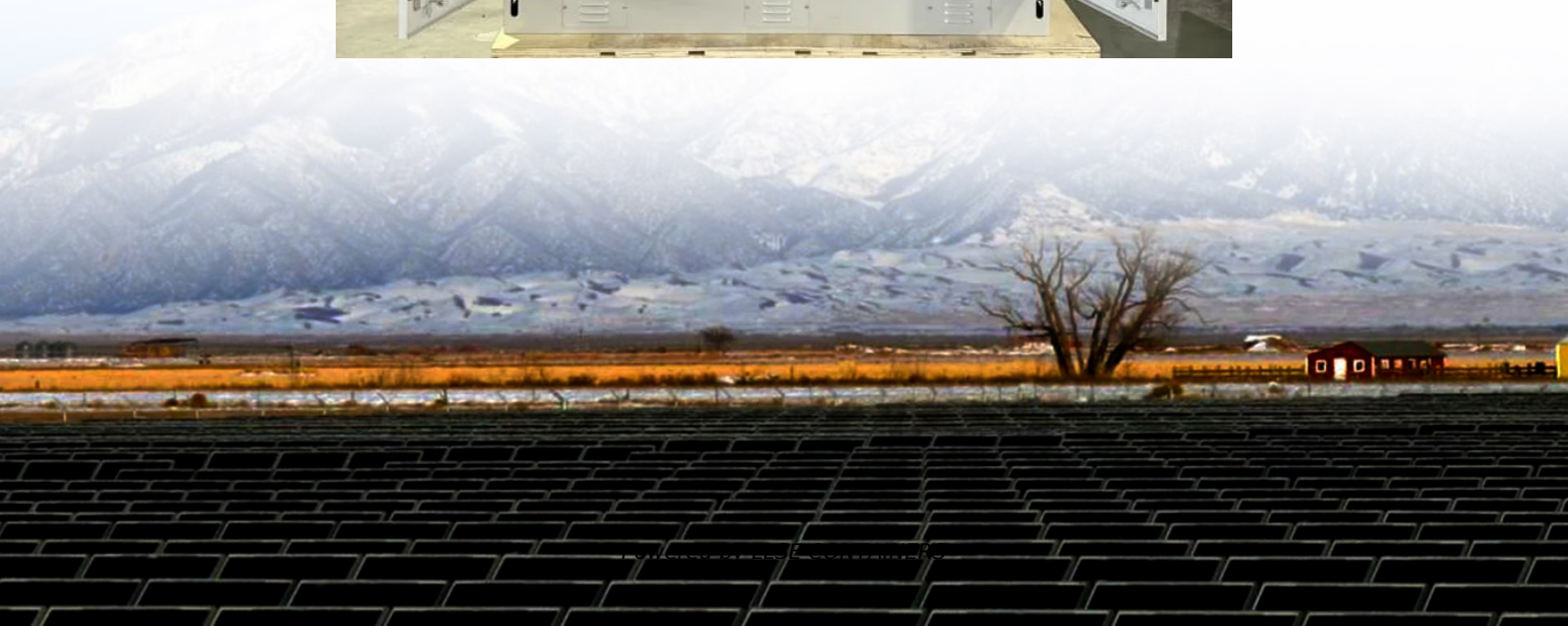


How is solar energy charged on site





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.

How does solar power work?

At its core, solar power is all about capturing the sun’s energy and turning it into electricity. The process revolves around photovoltaic (PV) technology , which is used in solar panels to convert sunlight into electrical energy. Here’s a simplified step-by-step look at how it all works: 1. Sunlight Hits Solar Panels.

How do solar photovoltaic cells work?

Solar photovoltaic cells are grouped in panels, and panels can be grouped into arrays of different sizes to power water pumps, power individual homes, or provide utility-scale electricity generation. Source: National Renewable Energy Laboratory (copyrighted).

How do solar panels generate electricity?

Solar panels generate electricity through a structured process. They convert sunlight into direct current (DC) electricity, which is then routed through the panel’s wiring to an inverter. The inverter converts the DC into alternating current (AC) for homes and businesses.



How is solar energy charged on site



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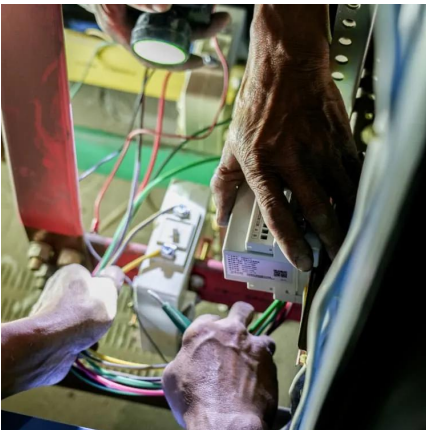
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