

Self-generated solar on-site energy





Overview

Can solar energy storage systems improve self-consumption and self-sufficiency?

As energy storage systems are typically not installed with residential solar photovoltaic (PV) systems, any “excess” solar energy exceeding the house load remains unharvested or is exported to the grid. This paper introduces an approach towards a system design for improved PV self-consumption and self-sufficiency.

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 renewable generation?

On-site renewable generation refers to the production of clean and sustainable energy from renewable sources at or near the location where it is consumed. It involves setting up renewable energy systems like solar panels, wind turbines, or small-scale hydroelectric generators to generate electricity on-site.

Are renewable electricity generators self-supply?

In all arrangements, the consumer must retain ownership of the RECs associated with their renewable electricity generator in order for their use to be considered self-supply of green power. Self-supply is often referred to as “on-site generation.”



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