

A-Core Container

Solar integrated machine system



Overview

What is solar systems integration?

Solar systems integration involves developing technologies and tools that allow solar energy onto the electricity grid, while maintaining grid reliability, security, and efficiency. For most of the past 100 years, electrical grids involved large-scale, centralized energy generation located far from consumers.

How can solar energy be integrated?

By 2030, as much as 80% of electricity could flow through power electronic devices. One type of power electronic device that is particularly important for solar energy integration is the inverter. Inverters convert DC electricity, which is what a solar panel generates, to AC electricity, which the electrical grid uses.

How does a solar inverter work?

Inverters convert DC electricity, which is what a solar panel generates, to AC electricity, which the electrical grid uses. Since solar energy can only be generated when the sun is shining, the ability to store solar energy for later use is important: It helps to keep the balance between electricity generation and demand.

What are the different types of solar inverters?

There are several types of inverters that might be installed as part of a solar system. In a large-scale utility plant or mid-scale community solar project, every solar panel might be attached to a single central inverter. String inverters connect a set of panels—a string—to one inverter.

Does a rooftop solar system need a two-way electricity flow?

Traditionally, electricity only needed to flow one way through these systems: from the central generation source to the consumer. However, systems like

rooftop solar now require the grid to handle two-way electricity flow, as these systems can inject the excess power that they generate back into the grid.

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