

What is a photovoltaic (PV) system?

A photovoltaic (PV) system is the most common sun collecting system. It is typically made of semiconducting material crystal silicon. Photovoltaic (PV) system provides electricity without gas emissions. Operation is silent and simple in design and maintenance (Kermadi and Berkouk 2017).

Can solar tracking improve PV power generation?

Solar tracking technologies have been explored for their potentials to improve availability and efficiency from PV power generation. In fact, the path of the sun near the equator does not vary too much but higher latitudes over time. In higher latitudes, the path of sun varies seasonally.

How AI can improve solar power production based on solar tracking technologies?

Advancement of AI and its application to improve availability and efficiency solar power generated from PV based on optimizing solar tracking technologies would further improve the economics and revenue generating potentials from such capital investments in installation of PV panels and a BES system.

Could a solar tracker offset be a barrier?

The offset could act as a barrier to adapt the solar tracker for the PV panel. Artificial intelligence (AI) is defined as "a system's ability to interpret external data, to learn from this data, and to use those learnings to achieve certain objectives" (Haenleun and Kaplan 2019,5).

How will a single axis solar tracker cost compared to a fixed system?

It should be noted that the cost of using one-axis or single-axis system will be increased by 10% compared to fixed system. The cost of using two-axis system will be increased by 30% compared to fixed system (Engin and Engin 2013). The offset could act as a barrier to adapt the solar tracker for the PV panel.

Should PV generation and EV charging load be integrated?

Specifically, large-scale integration of PV generation and EV charging loads would bring more technical challenges for the distribution grid with hosting capacity that constrains the allowable PV (Fachrizal et al. 2021).

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