

## SolarInnovate Energy Solutions

# Rooftop solar tracking system



## Overview

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What is a solar tracking system?

A solar panel precisely perpendicular to the sun produces more power than one not aligned. The main application of solar tracking system is to position solar photovoltaic (PV) panels towards the Sun. Most commonly they are used with mirrors to redirect sunlight on the panels.

Can a solar tracker be installed on a roof?

Solar trackers for solar panels are often heavy. If your roof is not strong enough to bear them, your only option is to go without any tracker system. Alternatively, you can go for a ground-mounted solar power installation. Heavy snow and rain can damage the components of a solar tracker.

How do solar tracking systems improve the efficiency of solar panels?

Solar tracking systems are pivotal in enhancing the efficiency of solar panels. By adjusting the orientation of solar panels in relation to the sun, these systems ensure maximum exposure to sunlight throughout the day. This dynamic positioning is crucial in optimizing the energy output of solar installations.

Are roof trackers better than ground-mounted solar panels?

While ground-mounted trackers are often sunk into the ground with concrete pillars, roof-mounted ones rely on the strength and integrity of the roof. Rooftop trackers raise the profile of the solar panels, which increases their exposure to strong winds—and that, in extreme weather, could pull the entire solar system off the roof.

What is a Solar Energy Tracker?

It is an advanced sun monitoring system that can rotate the panels to track the movement of the sun across the sky. It facilitates the panel system to trap the maximum sunlight and optimise the energy output. There are

considerable advantages to using a solar energy tracker.

How to choose a solar tracker?

You need to consider factors like climate, space, and shading before deciding on solar tracking. These tracking systems offer the most benefits in locations with high latitudes due to the sun's yearly movements. In conclusion, positioning a solar tracker directs the solar panels at an angle toward the sun.

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