

## ContainerPower Energy Solutions

# Use of 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.

What are the applications of solar tracking system?

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How can solar trackers improve energy production?

These efforts emphasize the significance of enhancing solar panel efficiency and energy production with sophisticated tracking and control systems. Recent developments in solar tracker systems include exploring different module geometries, materials, and tracking mechanisms to boost efficiency.

How does a solar tracker work?

A solar tracker operates through a sophisticated combination of sensors, control systems, and mechanical components working in harmony. The system continuously monitors the sun's position and adjusts panel orientation to maintain optimal energy capture throughout the day.

Do solar trackers work with solar panels?

When solar trackers are coupled with solar panels, the panels can follow the path of the sun and produce more renewable energy for you to use. Solar trackers are usually paired with ground-mount solar systems, but recently, rooftop-mounted trackers have come onto the market.

What are the benefits of solar tracking systems?

Solar tracking systems offer numerous benefits. First and foremost, they increase energy production by up to 40% compared to fixed-tilt systems. This enhanced output makes solar energy a more viable and competitive option.

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