



Best solar panel tracking system

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The best solar tracking systems often depend on particular needs and environments, but two highly rated ones are the AllEarth Solar Trackers and the NEXTracker. These systems accurately follow the sun's path to maximize energy production, incorporate advanced technology, and have a robust design for durability.

Growing up, you may remember planting sunflowers in the garden and watching how these yellow-headed beauties would move throughout the day, facing towards the sun. It's fascinating, isn't it? In the world of solar energy, we have an equivalent of those sun-chasing flowers, conveniently called solar tracking systems. More about these appealing marvels can be found on our tech page [/what-is-a-solar-tracker](#).

The neat thing about a solar tracking system is that it allows solar panels to harness the maximum amount of the sun's energy by orienting and adjusting the panels toward the sun's position throughout the day. They play a pivotal role in optimizing the efficiency of solar energy systems by ensuring your panels capture every ounce of sunlight possible, leading to a significant increase in your energy production.

Picture this: a sunflower that only moves from east to west. A single-axis solar tracker behaves pretty much the same way. This type of tracker moves the panels in relation to the sun's path from sunrise to sunset. They're less complicated and more affordable than their dual-axis counterparts but can't capture as much sunlight.

Now let's imagine our sunflower has decided to upgrade its movements, not just following the sun from east to west but also adjusting its angle concerning the height of the sun. That's what a dual-axis solar tracking system does! Albeit more expensive, these trackers are able to capture maximum sunlight, improving the system's energy yield by up to 45%.

This one's a no-brainer. If you're investing in a solar tracking system, it must be efficient and accurate. Look for systems that hold stellar records in precisely tracking the sun's path and effectively improving energy production.

I always say, choose a solar tracking system that's as sturdy as a veteran seafarer – able to endure heavy storms and harsh environments. Not all products are built to last, so center your search around brands with a reputation for durability and reliability.

Your budget will largely dictate the system you end up with, but do remember – cheaper isn't always better. While single-axis systems cost less initially, dual-axis systems generate more energy, thereby providing a better return on investment over time.

Like any mechanical system, solar trackers require maintenance. To avoid headaches down the line, ensure



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that your chosen tracker has a minimalist design with fewer moving parts and an excellent post-installation support record.

If you're wondering where to find the aforementioned trackers and other sturdy, efficient, and technologically refined solar trackers, check out these leading solar tracking system companies:

With an impressive track record in delivering solar trackers worldwide, NEXTracker has carved a niche for itself. They offer single-axis trackers noted for their individual row system, advanced technologies, and increased energy yields.

Pioneers in the industry, Array Technologies offer single and dual axis trackers renowned for their longevity, value, and performance. Their trackers are simplistic in design, lowering maintenance needs.

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