



Whether photovoltaic panels face east or west is better



Overview

In the United States, the best direction for solar panels to face is south as it exposes them to the most sun and allows them to produce the most electricity possible. This south-facing baseline provides the largest possible annual kilowatt-hour (kWh) output. East-West Orientations Offer Strategic Value: While producing 75-85% of south-facing output, east and west-facing panels can provide superior financial returns by aligning with time-of-use electricity rates and matching typical household consumption patterns. Latitude-Based Angle Calculation. Homeowners often ask me if east and west facing roofs work well for solar panels. I wrote this guide because I've seen too many homeowners. When your two best options are east or west, which should you choose?

During the course of a day, the sun passes through the sky in an arc that varies throughout the year due to the earth's orbit (see top image).



Article Content

Solar panels: East-facing or west-facing roof?

So, in essence, the answer is that you should try to put your panels on the "sunnier" side of the roof in terms of weather: if you have cloudy mornings ...

21 Reasons to Choose an East/West Solar Panel ...

East and West facing solar panels ensure an optimised solar panel orientation for these peak times, maximising the ability to convert more energy ...

Is East or West Better for Solar Panels?

Decide if East or West solar panels are better. We analyze the difference between maximizing total production vs. financial value.

Solar Panel Placement: Best Direction & Orientation Guide

Discover the optimal solar panel direction, placement & orientation to maximize energy efficiency. Boost savings with expert tips for an ...

Solar Panels on East and West Facing Roof: Energy Efficiency Guide

East and west facing roofs represent excellent opportunities for solar energy production. While they produce slightly less total energy than south-facing systems, they often provide better ...

Is East or West Better for Solar Panels (Best Location ...

There is no definitive answer to this question as it depends on a number of factors, including the climate, the topography, and the orientation of ...

Best Direction for Solar Panels to Maximize Savings — SolarReviews

Discover which way your solar panels should face for maximum power. Expert advice on which solar module directions work, the orientations ...

East-West vs. South Solar Panels: Benefits and ...

Solar panels facing east are identical to those facing west. Compared to the panels facing south, the panels facing east generate more ...

Solar Panel Direction & Orientation: 2025 Complete Guide

East or west-facing panels generate 75-85% of optimal output, and north-facing panels produce only 45-60% depending on latitude. The difference ...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.lup.edu.pl>

Email: info@lup.edu.pl

Phone: +48 512 478 936

Address: ul. Marszałkowska 10, 00-001 Warsaw, Poland

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