

# How to determine the south and north of photovoltaic panels



## Overview

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Our calculator takes into account your location's magnetic declination to give the rule-of-thumb optimal azimuth angles of true south and true north. But you can fine tune these even more by using PVWatts, which I describe how to do in the above video. 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 . Learn how solar panel latitude and longitude affect tilt, efficiency, and energy output. Discover location-based solar tips, tools, and mapping for maximum ROI. Solar Pathfinders & Sun Path Charts 13. Error: Could not get your location. Make sure location services are enabled in your browser or in your phone's browser app. These help determine the best placement and tilt .

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### [Sun Direction Maps: Your Guide to Optimal Solar Panel Placement](#)

Sun movement affects how much sunlight your panels receive. The Sun rises in the east, peaks in the south (in the Northern Hemisphere), and sets in the west. By knowing this path, you can

### [Solar Panel Latitude and Longitude , Optimize Energy Output 2025](#)

Learn how solar panel latitude and longitude affect tilt, efficiency, and energy output. Discover location-based solar tips, tools, and mapping for maximum ROI.



### **Solar Panel Orientation: Everything You Need to Know**

Generally, south-facing panels produce the most electricity in the northern hemisphere. To determine the best orientation for your solar panels, you must take into account key factors, which

### **Solar Panel Direction & Orientation: 2025 Complete Guide**

Remember, the best solar panel orientation for your home depends on your unique situation, including roof characteristics, energy usage patterns, local climate, and financial goals.





## Solar panel orientation

In the northern hemisphere, the general rule for solar panel placement is, solar panels should face true south (and in the southern, true north). Usually this is the best direction because solar panels will

## Solar Panel Azimuth Calculator

To use our solar panel azimuth calculator, put in your address, city, or zip code and you will get an answer within seconds.



## Solar Tilt Angle: How To Find The Best Panel Position

Learn how solar tilt and azimuth angles affect solar efficiency. Discover the best panel orientation for your location and how to adjust for seasons.

## Solar Panel Orientation Calculator

Our solar panel orientation calculator helps you find the perfect direction and angle for your panels in seconds. Think of it like adjusting a chair to catch the warmest sun on a winter morning.



## Solar Panel Orientation Guide

This comprehensive guide will walk you through the key factors that impact solar panel orientation and provide practical tips to ensure you're getting the most out of your solar power.

## Solar Panel Azimuth Angle Calculator

Find the best direction to face your solar panels for your location (city, zip code, address, lat/lon) with our solar panel azimuth angle calculator.



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