

# North-south rooftop solar panels



## Overview

Yes, you can install solar panels on a north-facing roof, but efficiency will be lower compared to south-facing panels. However, with tilted mounting systems, high-efficiency panels, and microinverters, homeowners can still generate 50-85% of the energy they would on an ideal. If you ask ten solar professionals how to orient a rooftop array in the Northern Hemisphere, most will answer the same way: face it south. And for many projects, that remains a solid default. A south-facing array typically squeezes the most energy out of each panel. But on many commercial roofs. Orientation Impact is Massive: The difference between optimal and poor solar panel placement can impact energy production by up to 30%, making proper positioning one of the most critical factors in maximizing your solar investment return. Optimal tilt angles vary by geographic location but generally range between 30° to 45°. Draw your roof area below to get a quick layout estimate — and open Photonik Pro for full multi-roof designs with accurate solar generation figures.



## Article Content

East-West vs. South-Facing Solar: When “More

If you ask ten solar professionals how to orient a rooftop array in the Northern Hemisphere, most will answer the same way: face it south. And for

Solar panel orientation

Solar panels, however, need to face solar or geographic south, which is the direction towards the South Pole. By the same reasoning, if the solar panel is located

Solar Panel Direction & Orientation: 2025 Complete Guide

Discover the optimal direction and angle for solar panels to maximize energy output. Complete guide with calculations, tools, and location-specific

Best Direction For Solar Panels: Complete Orientation

Discover the best direction for solar panels to maximize energy production. South-facing generates 30% more power. Learn optimal orientations

Which Solar Panel Direction (Orientation) Is Best?

Solar Panel Direction: Which way should my solar panels be facing? Last Updated: 17th Jul 2024 By Finn Peacock, Chartered Electrical Engineer, Fact Checked By Ronald Brakels Fifteen

North, East, South or West? The Best Roof Direction for Solar Panels ...

Discover the best roof direction for solar panels to maximise sunlight, boost efficiency, and save on energy costs.

Ground-mounted solar panels: If you have the space,

Not all roofs are great for solar. Whether yours is too sloped, only has space on the north side, or isn't the right material, you might not be able to get

Solar power in the United Kingdom

Solar power in the United Kingdom Top-left: solar panels on the BedZED development in the London Borough of Sutton. Bottom: residential rooftop solar

Solar Panels NYC | 3,000+ Installations | Brooklyn

Brooklyn SolarWorks is NYC's solar specialist. Since 2015, we've installed over 3,000 residential, commercial, and co-op systems on urban rooftops. We are

The Best Roof and Angle for Solar Panels to Maximize Your ...

In the Northern Hemisphere, the most effective orientation for solar panels is south-facing. This orientation allows the panels to capture the most sunlight throughout the day, maximizing energy

Can You Have Solar Panels on a North-Facing Roof? Challenges and ...

Yes, you can install solar panels on a north-facing roof, but efficiency will be lower compared to south-facing panels. However, with tilted mounting systems, high-efficiency panels, and

Best Roof Location for Solar Panels: South Facing Tilt and Shading ...

South-facing roofs provide the best annual output, with the potential for shading from surrounding trees. Consider a slightly steeper tilt to reduce snow buildup and to maximize panel

The Best Orientation for Solar Panels | Geo Green Power

This guide breaks down what constitutes the best roof orientation for solar panels and explores modern approaches that offer excellent results even

Solar Panel Placement Tool — Roof Layout

Plan your solar panel layout, roof orientation and placement in minutes. Free tool — see how many panels fit your roof and the best angle for maximum output.

Best Orientation for Solar Panels: Our Expert Tips

How solar panels should be oriented for an optimum energy output? Learn the most important facts and tips on best

Maximize Efficiency: Best Direction for Solar Panels

What's the best direction for solar panels? In most cases, the best direction for solar panels is facing south 1. Arrays that are appropriately oriented

North Carolina Solar and Storage

North Carolina State Solar Overview North Carolina's solar industry has grown rapidly, supported by early policies like the Renewable Energy and Energy Efficiency Portfolio Standard and continued

Solar Panel Angle Calculator

Find the best tilt angle for your solar panels by location for optimal year-round, summer, and winter performance. Includes interactive visualizer and advanced options.

North-facing vs south-facing panels [UK, 2026]

We explore the difference in output between north-facing and south-facing solar panels, and discuss whether it's worth having a north-facing solar

## Tilt and Orientation and Solar Energy

As the cost of solar falls, people are already talking about placing panels on north facing roofs as well as the southerly aspect. At northeast/west a 35 degree roof receives more than 60% of the light energy

### East-West vs South-Facing: Which Orientation

Despite the penalty for not facing south, installing panels on both east and west roofs could produce 60% more power than if you had a north-south

### Best Direction and Angle for Solar Panels: Tips to

If the orientation of your roof isn't quite right, however, that doesn't mean solar power is off the table. There are several other options to consider,

### Best Solar Panels Of 2026 – Forbes Home

Looking for info on the best solar panels? Discover expert opinions and data-driven insights on solar energy solutions for your home and based on

### What's the Best Angle for Solar Panels? | EnergySage

Learn how the orientation and angle of your solar panels can affect just how much electricity they'll produce for you.

### The best angle and direction for solar panels [UK, 2026]

Learn about the optimum set up for rooftop solar panels in the UK to ensure the highest output.

### Best Angle And Orientation For Solar Panels – Forbes

Homes that have solar panels facing directly east or west will produce around 20% less energy. The proper solar panel orientation for homes located

## Contact Us

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