

Solar panels facing south to generate electricity





Overview

Should solar panels face east or west?

Solar panels that face east or west will produce about 15% less energy than those installed on a south-facing roof. A north-facing roof is the worst direction for solar, as panels will produce around 30% less energy than if they face south.

How much solar energy does a south facing roof generate?

According to data from the U.S. Energy Information Administration (EIA), solar panels on roofs that are tilted 20% to the west from true south will still generate 89% of what a southern-facing roof will. Panels on roofs that face 20% east will generate 85% of those on a roof that's oriented south.

Why do solar panels face south?

Homeowners and businesses benefit from higher energy production, increased savings on electricity bills, and a more sustainable and environmentally friendly energy source, making the investment in solar panels facing south highly rewarding. Explore why solar panels face south for optimal sun exposure.

Why do solar panels have a south-facing orientation?

A south-facing orientation ensures that all panels in the array receive sunlight evenly, allowing for a consistent output across the entire system. While south-facing orientation is optimal for year-round sun exposure, it is not the only factor to consider.



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North-facing vs south-facing panels [UK, 2025]

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Best Solar Panel Direction For Every Goal Best Solar Panel Direction Overall South to Southwest Is Best For You Rates How Much Does Solar Panel Direction Impact output? What If Your Roof Doesn't Face South? Does Solar Panel Angle Matter? How to Calculate Output on Your Roof Based on Its Direction In the U.S., orienting solar panels true south (azimuth of 180 degrees solar noon) will result in maximum output. Face them any other direction, and you can expect to see a fall in solar panel output. Solar panels see a drop in solar power production when you face them away from the true south. The size of the output drop will depend on where the sun is. See more on solarreviews Independent Power Does My Roof Have to Face South for Solar? East- and west-facing panels generate more energy when mounted flatter than 30 degrees. For example, east or west-facing solar panels that are ...

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Does My Roof Have to Face South for Solar? , Home Solar 101

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Key takeaways 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. Solar ...

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