

# Rooftop solar panel angle





## Overview

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Which roof is best for solar panels?

South-facing solar panel systems almost always generate the most electricity, but east-west roofs can work well for solar, too. The direction is more important than the angle. Angle is rarely a make-or-break factor, and most roof tilts will work fine—though there are some exceptions.

What is the best roof pitch for solar panels?

People who live at locations measuring 35 degrees should usually select 35-degree roof pitches for optimal performance. Dynamic factors throughout the year, together with sun position, change the effectiveness of the recommended angle. Your location's latitude is the primary factor in determining the best roof pitch for solar panels.

What angle should solar panels be mounted?

Another factor to consider is your home's roof slope. The average American home ranges in pitch from 4/12 (18 degrees) to 9/12 (37 degrees) 6. To find the optimal angle to mount your solar panels, take your base tilt from your latitude and subtract it from your slope. Let's take a look at some examples:.

How do you measure a roof pitch for solar panels?

The ratio of vertical rise to horizontal run for roof pitch measurement becomes 6:12. The optimal installation angle for solar panels matches the measurement value of your geographical location. People who live at locations measuring 35 degrees should usually select 35-degree roof pitches for optimal performance.



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