

## ContainerPower Energy Solutions

# The angle of the solar panel



## Overview

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How does the solar panel angle calculator work?

Our solar panel angle calculator takes the guesswork out of panel positioning, suggesting panel tilt angles based on your location's latitude and your willingness to reposition based on the sun's seasonal dance across the sky. Start by entering your location in the search box.

What is solar panel angle?

Solar panel angle is the tilt at which a solar panel is installed. Installing solar energy is more cost-effective and energy-efficient if you select the right angle for the solar panels. The solar panel angle is calculated in relation to the ground or the horizontal plane of the equator in technical terms.

What is the optimal tilt angle for solar panels?

We started with flat panels and increased the angle of tilt to the south to see how much extra energy is gained through the year. A rule of thumb that seems to have spread around is that the optimal tilt angle is about equal to the degree of latitude of the location. Therefore we include a result at a tilt of 33.4 degrees, the latitude of Phoenix.

What is a solar panel tilt calculator?

Using a Solar Panel Tilt Calculator makes it easier to work out how to tilt your solar panels and to what degree by taking into account the sun's position throughout the year and recommending the most efficient tilt angle for maximizing energy production. How do you calculate Solar Panel Angle?

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How to calculate solar panel angle based on latitude?

Here are two simple methods for calculating approximate solar panel angle according to your latitude. The optimum tilt angle is calculated by adding 15

degrees to your latitude during winter, and subtracting 15 degrees from your latitude during summer.

What is the best angle for solar panels?

The optimal angle for solar panels is often between 30- 45 degrees but varies as much as 12-45 degrees in the United States, depending on your location. Given the importance of location, it's recommended to determine the best solar panel angle using the zip code.

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