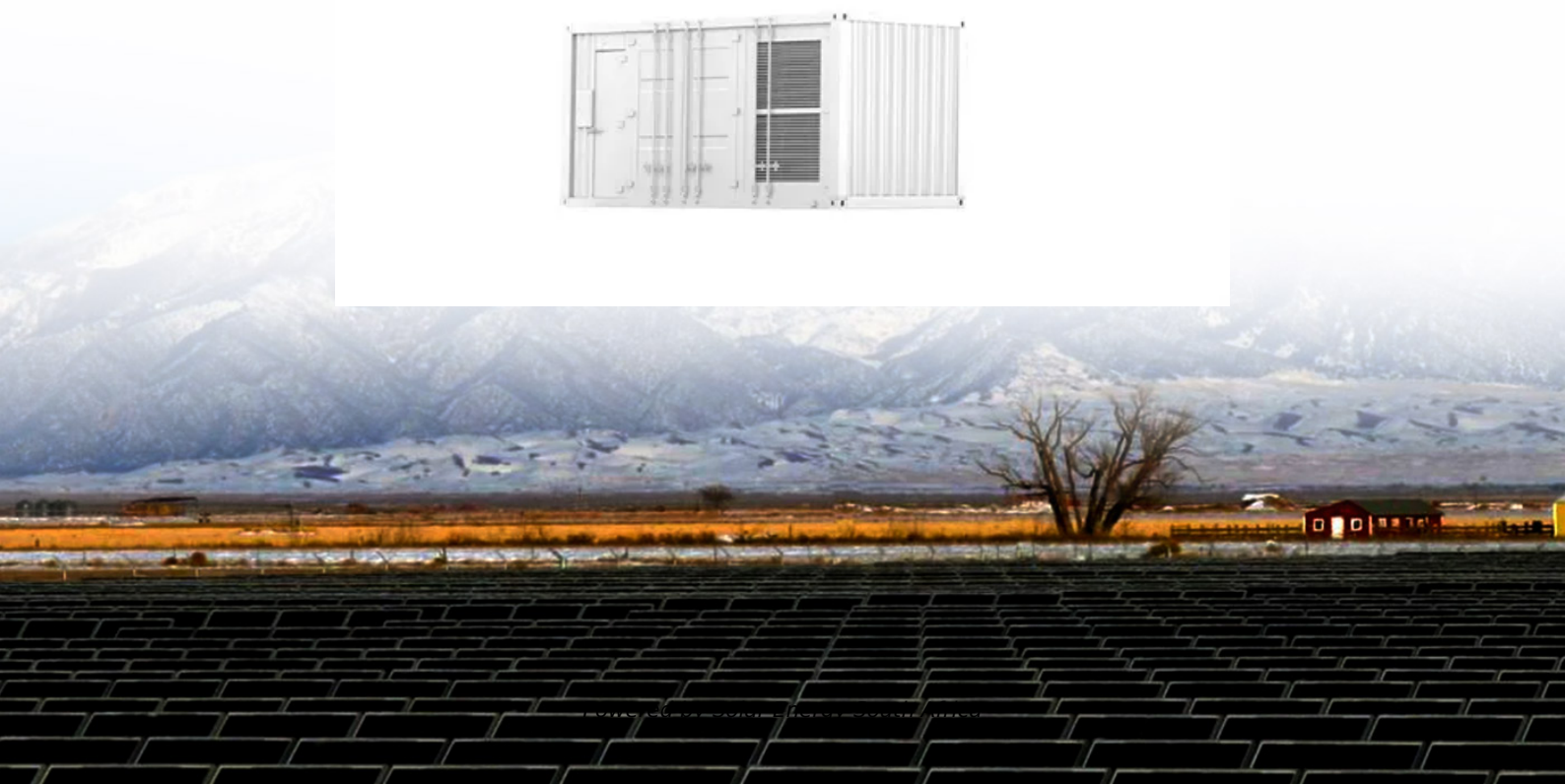
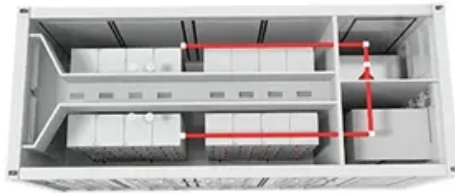


Solar Energy South Africa

Measure the angle of photovoltaic panels with mobile phone



Overview

On your Apple or Android phone, use the measurement app with the built-in bubble level feature. Lay the phone on your roof's surface and it will give you the slope in degrees. How do I find the best angle for my solar panels?

Simply enter your address and it will provide the optimal angles for each season, as well as a year-round average angle for your specific location. An example of the calculator results. Discover the best angle for your solar panels with our Solar Panel Tilt Angle Calculator. Maximize energy efficiency and save money!.

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 tilt angle of solar panels?

If the sun is high in altitude, then the tilt angle would be small and solar panels would be more horizontal. For low altitudes, the tilt angle is large, and solar panels are vertical. The tilt angle for solar panels is dependent on the latitude of the sun. Fixed solar panels are a convenient and preferred choice.

How to calculate solar panel orientation?

The orientation is composed of two parameters: direction and tilt angle. Select your timezone and enter your coordinates (latitude and longitude) to calculate the optimal orientation for fixed solar panels, twice adjusted solar panels, quarterly (seasonally) adjusted solar panels, and monthly adjusted solar panels.

Why does solar panel angle matter?

Before we dive in, let's understand why panel angle matters. The solar panel

angle, or tilt, is crucial for optimizing the efficiency of your solar power system. It's all about getting your panels to catch as much sunlight as possible throughout the day and across the seasons.

How do you determine the direction of a solar panel?

Both are independent but vital parts in optimizing orientation for solar panels. The direction is calculated using the azimuth angle of the sun, which is simply a directional measure of the sun in the sky. Knowing the azimuth angle, we can tell the direction of the sun in the sky.

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Is My Roof Pitch Good For Solar?(How To Measure)

So now you know what angle the panels should be mounted, how do you go about measuring your roof pitch? Roof pitch is measured as a vertical rise relative to a 12-inch horizontal run. So a roof which rises 7 inches ...

11 Best Solar Panels Apps for Android & iOS

Solar energy is one of the youngest types in the industry, and it's already on top of the trends. So if you want to get into the solar panel game or looking for ways to elevate your current experience, you've come to the right ...



How to Find the Best Solar Panel Tilt Angle

If you're considering a professionally installed, grid-tied system on your roof, determine your roof's degree angle using the measurement app on your mobile device. The measuring app on your phone can help you find your ...

Calculating Optimal Azimuth Angle for Solar Panels

The solar azimuth angle for solar panels is the angle between the north and the sun with panels on the local horizon. The local horizon is the

imaginary horizontal plane on which solar panels are installed. The below ...



12.8V 200Ah



How to Find the Best Orientation and Angle of Solar ...

However, a proper solar panel angle will fluctuate over the course of the year. There are two calculation methods that are popular in the industry. Method #1: Calculate the tilt angle specific to seasons. Add 15° to ...

[Solar Panel Tilt Angle Calculator](#)

The tilt angle of your solar panels should ideally match the angle of the sun's rays for maximum sunlight absorption. This angle varies depending on your geographic location, the time of year, and the specific daily trajectory ...



Solar Panel Angles for Honolulu, Hawaii, US -- Solarific

Solar Panel Angles for Honolulu, Hawaii, US. Honolulu, Hawaii is located at a latitude of 21.33°. Here is the most efficient tilt for photovoltaic panels in Honolulu: which is a measure of how ...

Solar Panel Angle: how to calculate solar panel tilt ...

Here are two simple methods for calculating approximate solar panel angle according to your latitude. Calculation method one. The optimum tilt angle is calculated by adding 15 degrees to your latitude during winter, and ...



Best Angle for Solar Panels: It's Not Your Latitude

Calculator Notes. This calculator is based on a pair of mathematical formulas published in a 2018 research paper on optimal PV tilt angles; According to an analysis I conducted, the tilt angles derived from ...

11 Best Solar Panels Apps for Android & iOS

Select your timezone and enter your coordinates (latitude and longitude) to calculate the optimal orientation for fixed solar panels, twice adjusted solar panels, quarterly (seasonally) adjusted solar panels, and monthly ...



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