

**PIENAAR ENERGY (PTY) LTD**

# **Why aren't photovoltaic panels placed facing east**



## Overview

---

The optimal direction for solar panels to face is generally south in the Northern Hemisphere, as this orientation maximizes sunlight capture throughout the day, potentially increasing energy generation by up to 20%. East-West Orientations Offer Strategic Value: While producing 75-85% of south-facing output, east and west-facing panels can provide superior financial returns by aligning with time-of-use electricity rates and matching typical household consumption patterns. If your roof doesn't allow for south-facing panels, whether due to. Here's a surprising reality: Two identical homes on the same street install the exact same solar system on the same day—identical panels, same size, same installer. Yet after 25 years, one homeowner saves \$18,000 while their neighbor saves only \$15,000. This article explains how solar panels on an east-facing roof perform, design strategies to maximize energy yield, cost and incentive. When considering solar panel installations, one common question arises: Can you put solar panels on an east facing roof?

In this article, we will delve into the topic and explore the viability, benefits, and strategies for optimizing energy production on east facing roofs. The article supports this by discussing case studies and expert insights that.

## Why aren't photovoltaic panels placed facing east

---



### Solar Panel Direction & Orientation: 2025 Complete Guide

East or west-facing panels generate 75-85% of optimal output, and north-facing panels produce only 45-60% depending on latitude. The difference between optimal and poor orientation ...

[Get Price](#)

---

### East-Facing Roofs and Solar: What to Expect

East-facing solar panels are considered the 'second-best' option when south-facing panels aren't possible. These panels still capture enough sunlight to produce significant amounts of ...



[Get Price](#)

---



### Why Most Homeowners Get Solar Panel Direction Wrong (And How ...)

Today's high-efficiency panels with power optimizers can harvest usable energy even from non-ideal orientations. This means east and west-facing systems are now viable options that ...

[Get Price](#)

---

## Which Solar Panel Direction (Orientation) Is Best?

East And West Orientation: Placing some solar panels facing east and some facing west will result in the total amount of electricity produced being around 15% less than if all the panels were ...

[Get Price](#)



## The Best Direction for Your Solar Panels

When panels are placed east- or west-facing, they typically produce 15% less energy than south-facing panels. North-facing panels usually produce 30% less energy than south-facing.

[Get Price](#)

## What Direction Should Solar Panels Face? Understanding the Basics ...

Understanding the significance of solar panel orientation is essential for homeowners aiming to optimize energy production and reduce utility costs. This article has highlighted various critical factors, from ...

[Get Price](#)



## Solar Panels on an East-Facing Roof: Performance, Placement, and ...



This article explains how solar panels on an east-facing roof perform, design strategies to maximize energy yield, cost and incentive considerations, and practical installation tips for ...

[Get Price](#)

## What Direction Should Your Solar Panels Face? , Angi

Solar panels should face the equator for maximum efficiency. In the U.S., south-facing solar panels produce the most energy. East- or west-facing panels produce 10% to 20% less energy, ...

[Get Price](#)



## Can You Put Solar Panels on an East Facing Roof?

While south-facing roofs are considered optimal for solar panel installations, it is still possible to install them on an east facing roof, albeit with slightly lower energy production potential.

[Get Price](#)



## Solar panels: East-facing or west-facing roof?

So, in essence, the answer is that you should try to put your panels on the 'sunnier' side of the roof in terms of

weather: if you have cloudy mornings more often, the west-facing roof, and if ...

[Get Price](#)



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.pienaarshof.co.za>

