SOLAR TUTORIAL

TRAFFICALM™

SOLAR PANELS

Panel Positioning:

- In the northern hemisphere, position your solar panels on the post facing **true south.**
- Adjust the tilt angle to **15 degrees plus your latitude** for optimal energy production.
- In the southern hemisphere, panels should face true north.

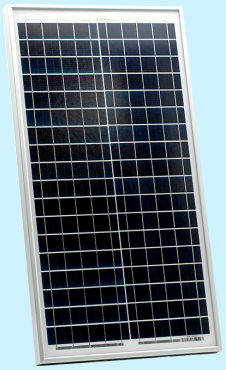
Orientation Matters:

- Panels facing east or west produce around **20% less** electricity than those facing south.

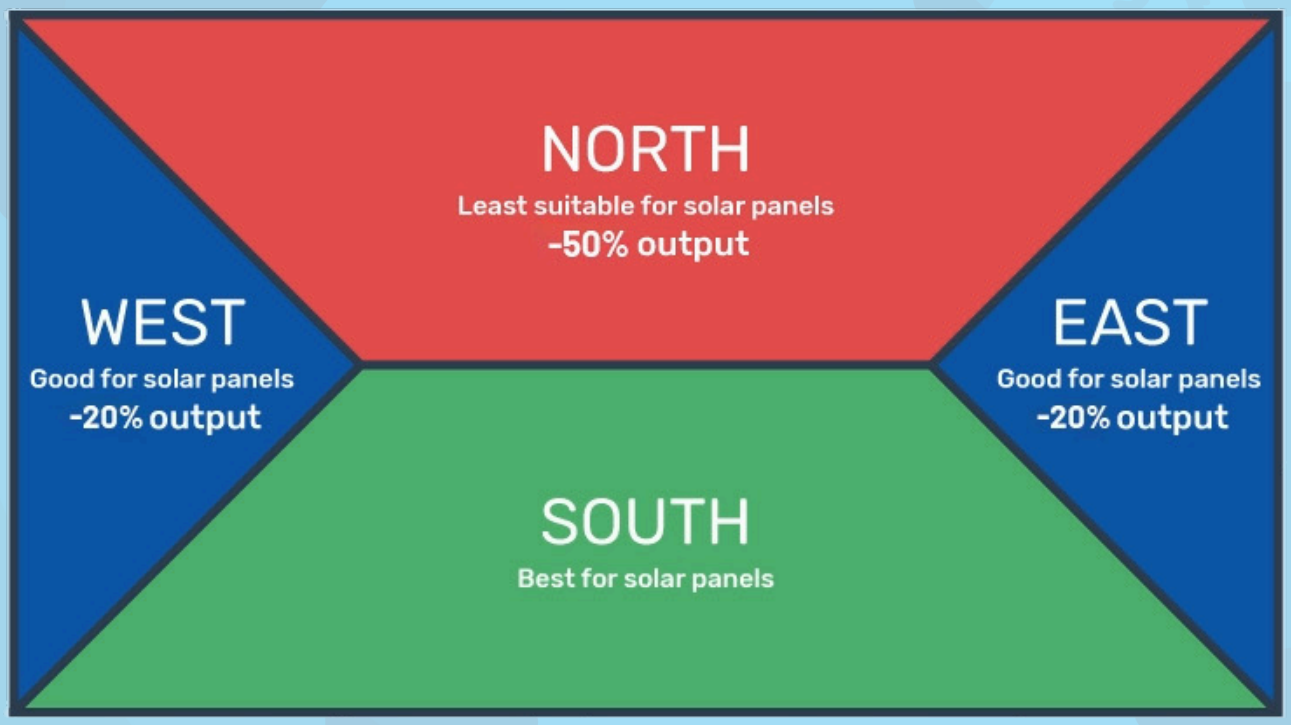
Direct Sunlight Required:

- Ensure your solar panels receive **direct sunlight** for efficient energy production.
- If **trees obstruct sunlight**, consider trimming or opt for an AC-powered system.
- Be mindful of changing tree cover during **different seasons.**
- Buildings **blocking sunlight** can reduce solar performance by up to 50%.

SEASONAL CHANGES
CAN EFFECT SOLAR EFFICIENCY



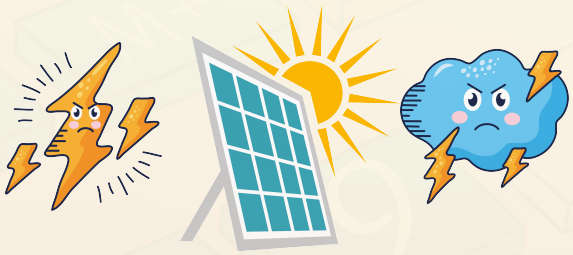
SOLAR PANELS IN THE NORTHERN HEMISPHERE SHOULD FACE TRUE SOUTH.



Contact your **TraffiCalm Regional Sales Manager** to run a solar calculator for your proposed system.

sales@trafficalm.com

The **solar calculator** will determine the solar panel and battery size based on:



- Power draw of the system
- Solar insolation per month
- Temperature per month
- Cloudy days per month

A GPS or Google Earth location will help us review the proposed location.