

TerraTrak Peak Production Package

Produce up to 5% more energy



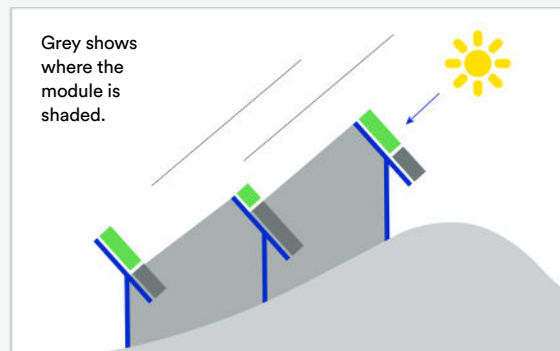
Pioneering advanced tracker software for the DG market and validated by DNV, Terrasmart's Peak Production Package unlocks up to 5% more energy with our topography informed backtracking and irradiance optimized tracking. Maximize your energy output on undulating terrain and on cloudy days.

Topography informed backtracking

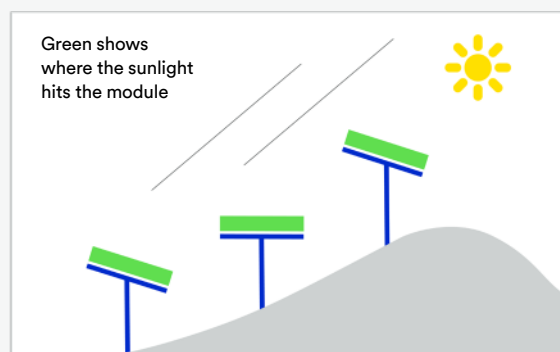
Increases production up to 1%–3%

It considers terrain variation in all directions across the length of each rack and the position of neighboring trackers in addition to real-world site elevation data, the distance between racks and solar position calculations.

Without topography informed backtracking



With topography informed backtracking

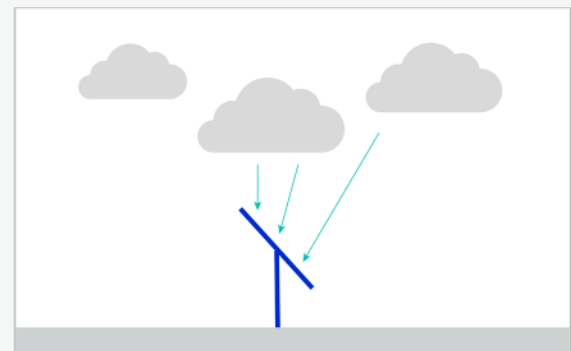


Irradiance optimized tracking

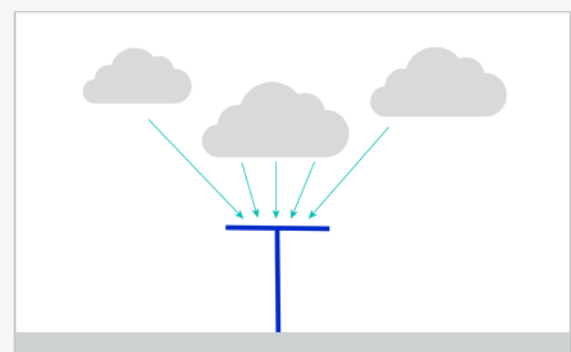
Increases production up to 1%–2%

The algorithm uses irradiance forecasts to improve energy capture under diffuse or cloudy conditions. Instead of strictly following the sun path, the system reorients modules upward when diffuse light is more productive. Unlike others, our tracking utilizes cloud-based irradiance forecasting over on-site sensors.

Without irradiance optimized tracking

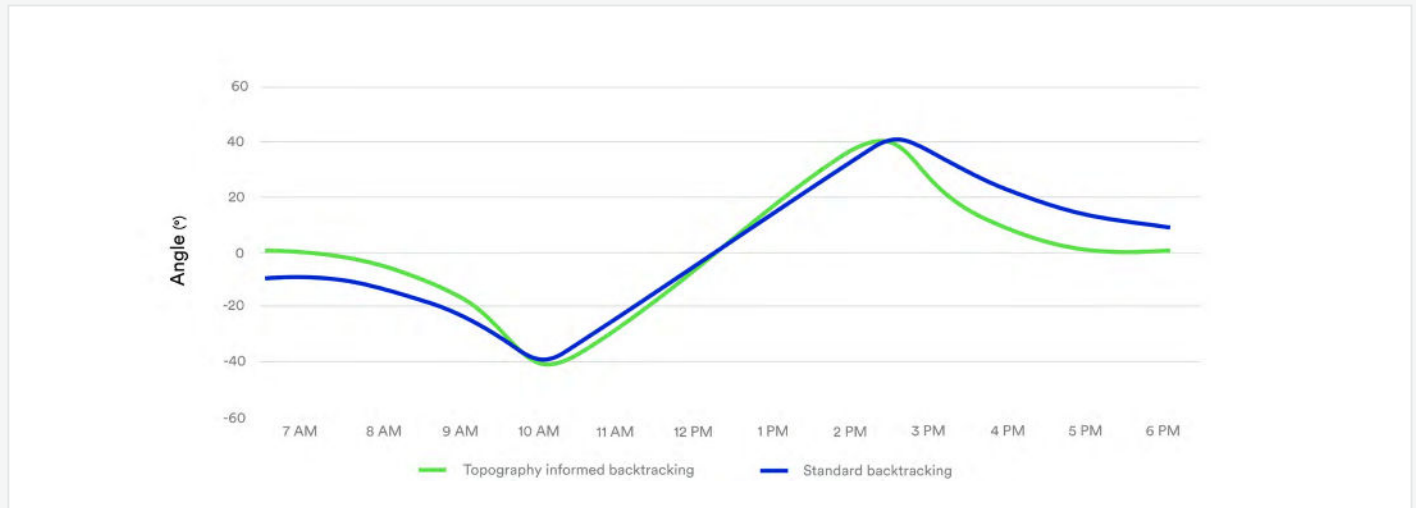


With irradiance optimized tracking



Tracking Angles

Topography informed backtracking vs. standard backtracking

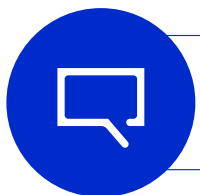


Production Curve

Topography informed backtracking vs. standard backtracking



Gains from topography informed backtracking occur in the morning and evening



Contact us for more about how your site can benefit from our advanced tracking and how to leverage energy gains when financing projects.