



SOLTEC

6.2%
Yield Gain*

TEAMTRACK™

Asymmetric Backtracking. Tracker Position Control.

+0.23%

TeamTrack Gain

against Middle Sensor Backtracking systems

TeamTrack™ is part of comprehensive Soltec tracker position control that avoids inter-row shading in the early and late-day hours due to uneven terrain influences. TeamTrack achieves up to **6.2%** yield-gain over standard tracking.

- **Tracker Control with no blind spots**
- **Yield-gain 3D modelling**
- **Project Cost Control**

YIELD-GAIN 3D MODELLING

The TeamTrack 3D algorithm uses NREL sun-position data versus programmed constants of local irregularities to execute energy optimized backtracking position control, avoiding inter-row shading and achieving yield-gain.

Tracker control is simply configured with irregularity parameters that do not change with time or external influences in normal operation.

PROJECT COST CONTROL

TeamTrack stands out from existing solutions that add equipment and feedback response mechanisms, that add cost and vulnerability.

TeamTrack enables cost reduction in earth-grading on contours and steps.

TeamTrack system is zero maintenance and provides for hardware independent software update.

TRACKER POSITION CONTROL

TeamTrack is part of Soltec's comprehensive tracker positioning control including sensors and response to cloud-cover, snow-cover, flood level, and wind regime.

TeamTrack firstly assures secure tracker plant operation independent of external communications, and provides secure remote data communications.

+0.62%

TeamTrack Gain

against Dual-row tracking systems

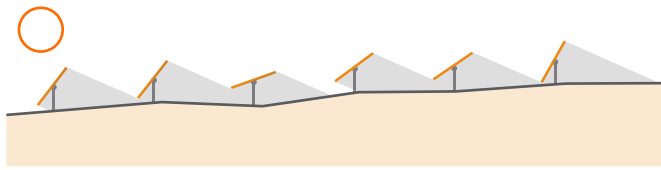
+1.13%

TeamTrack Gain

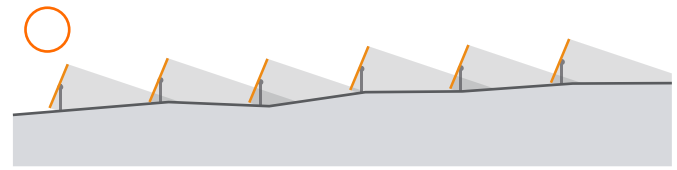
against Linked-row tracking systems

*Soltec's TeamTrack™ Algorithms were validated by TÜV Rheinland®

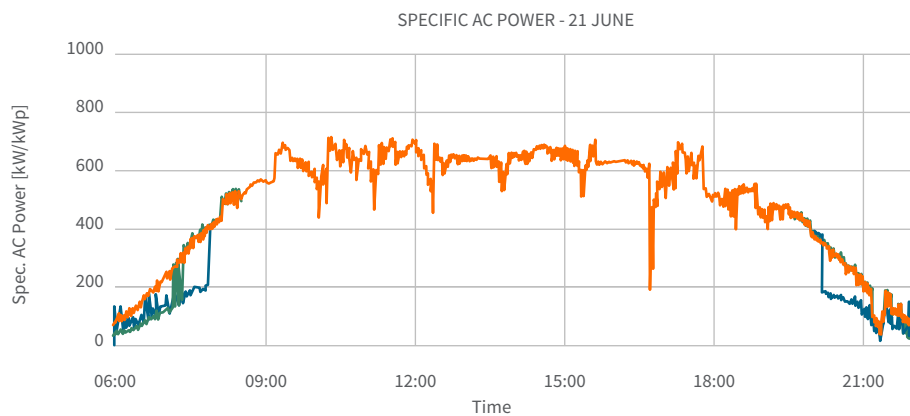
TEAMTRACK™



SOLTEC TEAMTRACK



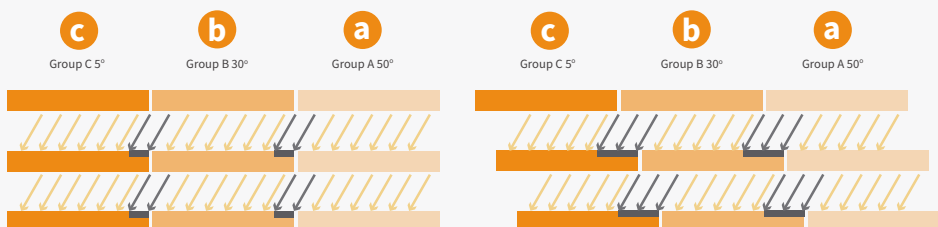
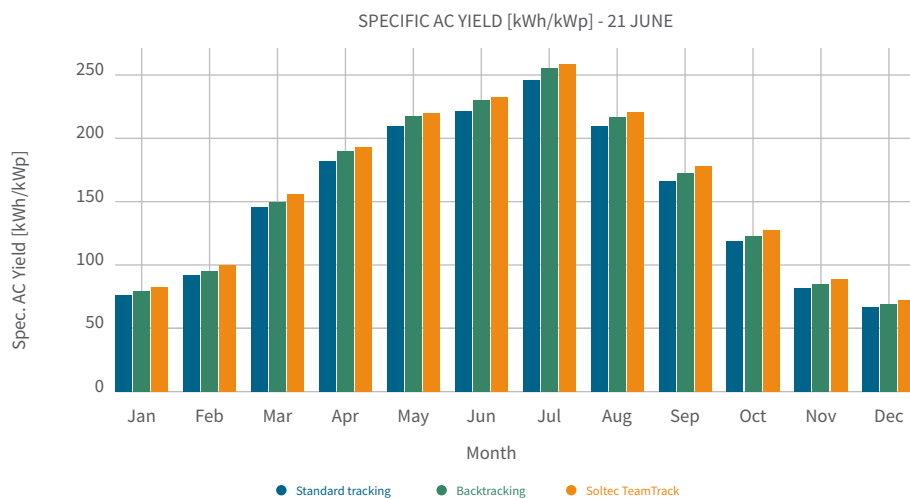
STANDARD TRACKING



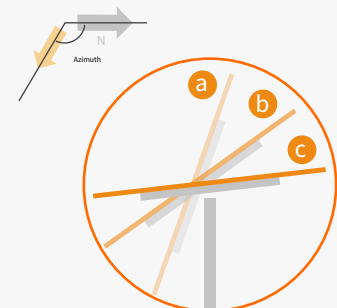
- ✓ Tacker Monitoring System (TMS) active tracker position angles.
- ✓ Target Command issues tracker position angle updates.
- ✓ TeamTrack layout parameters are uploaded to the system during commissioning.
- ✓ Inter-row shading is avoided, and yield-gain achieved.

Even while trackers with standard tracking and backtracking are shaded during the morning, the trackers with TeamTrack are mainly shade free.

Comparisons with 9 project cases conclude that the use of TeamTrack results in a yearly energy yield increase ranging **3.6% to 7.5%** compared to Standard Tracking. Energy yield optimization compared to Standard Backtracking at the different sites ranges from **1.2% to 3.5%**.



Shades in North-South direction cast by trackers with different angles.
Angles of groups a, b and c are assessed according to different survey East-West slopes.



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