ASUN

ALL SEASON HIGHER YIELD

SOLVED!

Presenting...
Solar PV Tracking Solutions by ASUN

Cost Efficiency
Highly optimised and innovative structural design makes the system cost extremely competitive with lower tonnage per MW.

Design Efficiency
A modular and decentralised design for better terrain adaptability and higher plant availability.

Performance Efficiency
Higher yield performance and lower land requirement mean higher efficiency and even higher project returns.

Offers higher performance with Bi-facial modules as comapred to any other comparable tracking system.

1 ASUN 2 AXIS TRACKER

Checks all the boxes in solar project economics

While the LCoE of solar installations is getting competitive, falling tarrifs are forcing developers to push the boundaries of optimimum yields. Especially with the BoS costs hitting a plateau. As the Solar PV technology continues to evolve, panel cost is a major cost component, making plant CUFs a critical factor. Therefore, it is time for a new hard look at Solar Tracking.

Why 2 Axis Tracking
The prevalent horizontal mount single axis tracker track only east to west, accounting for daily movement of the sun. Failing to account for seasonal north to south shift in the path of the sun, resulting in lower yeilds in winter months, sometimes even falling those of a fixed mount system at certain locations.

The Cost Challenge
While the advantages of dual axis tracking have been known and documented for quite some time, aiming for centralised, large panel arrays shot the costs out of the project economics.

The Solution
A viable 2 Axis Tracker that overcomes the design shortcomings of available MMS options, delivering consistently high performance across seasons and locations, while keeping the capital investment in check. Thus making it an ideal option for any utility scale solar project.

2 versatile design adaptations

2 ASUN HORIZONTAL SINGLE AXIS TRACKER

Cuts land requirement by upto 25%
With the tracker table aligned along the E/W axis rather than N/S as in prevalent single axis designs, the pitch between the trackers is reduced considerably.

Reduced structure cost
The highly optimized structure design of the tracker, allows even greater cost reduction by eliminating components required for N/S movement.

3 ASUN TILTED SINGLE AXIS TRACKER

Higher yield
Asun tilted single axis tracker offers better annual yield as compared to a conventional single axis tracker.

Competitive cost
A highly optimized structure means lower tonnage per MW. Thus translating into considerable savings on capital cost.

Hi-Pedigree Knowhow

Asun Trackers have been designed & developed In collaboration with IIT (Indian Institute of Technology) Delhi, a centre for excellence in Engineering in India.

Address the inherent design shortcoming of horizontal mount single axis trackers.

Designed to withstand wind speeds upto 170 kmph. (106 mph)

The Asun Tracker designs have been validated:
- By real time yield data comparisons with co-located fixed tilt and single axis tracker installations.
- By third party performance data comparison.

Details available on request.

Tracking solutions to meet any project requirement

2 Axis Tracker

Tilted Single Axis Tracker

Horizontal Single Axis Tracker

About the company

Asun Trackers Pvt. Ltd. is a Solar Tech Startup incorporated in 2015 with the express objective of developing viable Solar PV tracking solutions that could overcome the design shortcomings of MMS options available in the market.

The company was selected for incubation by Foundation for Innovation and Technology Transfer at IIT Delhi in 2019. Since then, Asun Trackers has already been awarded the design patent for US and Canada, with patents filed for nearly 30 other countries.

For more information, contact:

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