



Leading Agrivoltaic Technology

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# KSI SOLAR COMPANY PROFILE

## COMPANY HISTORY

KSI is a world-leader in the design, supply & installation of photovoltaic tracking systems, with over 17,500 successful projects worldwide. From the hottest Middle Eastern deserts to sub-zero temperatures in Northern Canada & Alaska, these systems have been installed in the most challenging environments across 6 continents.

SINCE 1991, WE'VE INSTALLED:

**55,000**

Trackers

**2GWp**

Total Capacity

**52**

Countries

### OUR PRODUCTS

- Single-Axis Trackers
- Dual-Axis Trackers
- Agrivoltaic Systems
- Fixed Systems

### OUR SERVICES

- Service & Maintenance
- Repowering & Retrofit
- EPC Services
- Consultancy



### OUR OFFICES

- London, UK
- Toronto, Canada
- Milano, Italy
- Delaware, USA
- Zug, Switzerland
- Dubai, UAE

**2007**

Dual-Purpose Land:  
First Vineyard  
Installation

**2009**

Partnership with  
Mirasole Group

**2010**

First Mirasole Group  
Project Begins

**2013**

Installing the Biggest  
AgriPV Dual-Axis  
Tracker in Italy

**2016**

First Single-Axis  
Installation on  
Agricultural Land

**2022**

KSI & Mirasole:  
Adapting to New  
AgriPV Regulations

**2024**

Obtaining Necessary  
Permits

**2025**

Start of Construction

# KSI SOLAR

## 15 YEARS OF PRACTICE

### AGRIPHOTOVOLTAICS

With over 15 years of experience in agrivoltaics, our innovative solar trackers are designed to adapt to diverse farming conditions, from open fields to sloped landscapes. By integrating smart tracking technology with sustainable farming, we help landowners enhance food production, improve soil health, and secure a reliable second revenue stream, all while supporting the transition to clean energy.

The concept offers several advantages:

- Diversified sources of income for farmers
- Increased crop yields & soil protection
- Livestock integration & welfare
- Optimized water management
- Improved microclimate for crops
- Long-term land protection
- Reduced carbon footprint
- Dual-land use efficiency

*“Together with KSI Solar we’ve explored new ways to balance energy production with agricultural needs. Whilst navigating complex regulations, solutions that respect and enhance our farming practices are consistently delivered.”*

- Emanuele Morigi  
Mirasole Group





# AGRIVOLTAIC TRACKER FAMILY

## AGRIPHOTOVOLTAICS

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Our specialized range of Agrivoltaic tracking systems have been designed to ensure optimal synergy between solar energy production and agricultural activities.

Built with adaptability, efficiency, and sustainability in mind, each tracker in our portfolio is engineered to support diverse agricultural environments, whether for crop cultivation, livestock grazing, or research-driven Agrivoltaic applications.

### OUR TRACKER FEATURES

- Remote Monitoring & Maintenance
- Optimized Energy Generation
- Versatility for Dual Use
- Self Cleaning
- Low Power Consumption
- Minimal Ground Disturbance
- Optimized Tracker Spacing



## Single-Axis

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Our single-axis Agrivoltaic trackers are designed for large-scale agricultural integration, offering an ideal balance between high energy yield and minimal land impact. With their elevated design and strategic row spacing, they allow for seamless crop cultivation and livestock grazing underneath.



## Dual-Axis

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Our dual-axis Agrivoltaic trackers provide maximum solar exposure by dynamically adjusting to the sun's position throughout the day and across seasons. This precision tracking ensures higher energy generation in smaller land areas, making them ideal for specialized Agrivoltaic applications, research projects, and high-value crop protection.

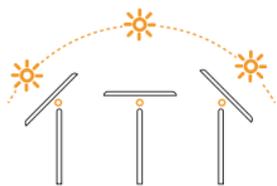
# FEATURES OF OUR PRODUCTS

## LUMA AGRI

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The highly flexible design of this tracker allows it to position the modules perpendicular to the ground, ensuring unobstructed inter-row space for agricultural vehicles.

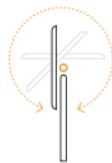
The Luma Agri optimizes land use with its modular architecture. While it is typically configured with eight sections of five modules per array, it can be adjusted by individual sections to accommodate different site shapes and constraints.



○ Daily Tracking



○ Night-Flip



○ Full Control



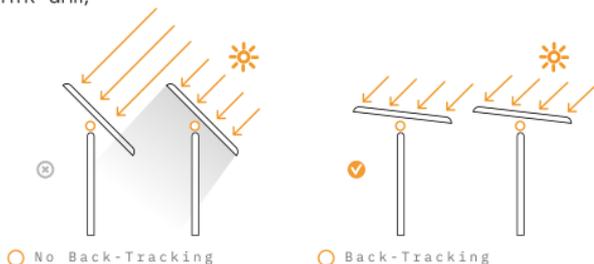
# Features

Each tracker is equipped with its own dedicated control unit, allowing for individual access and real-time system analysis.

The setup is streamlined, requiring only one cable for power, one for the motors, and one for communication, minimizing complexity. All cable access points are conveniently centralized within each SolTrk unit, ensuring a quick, efficient, and precise connection.

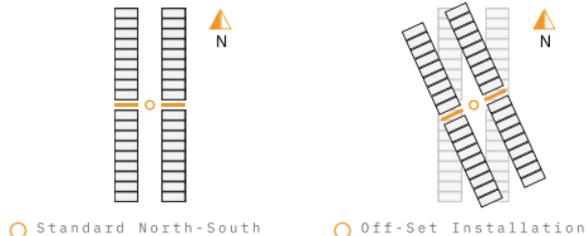
## ○ Advanced Back-Tracking

To maximize energy production and eliminate shading losses, SolTrk features an intelligent back-tracking system that continuously adjusts array positions throughout the day. This ensures that trackers do not cast shadows on one another, optimizing installation space and preventing energy loss.



## ○ Off-Set Installation

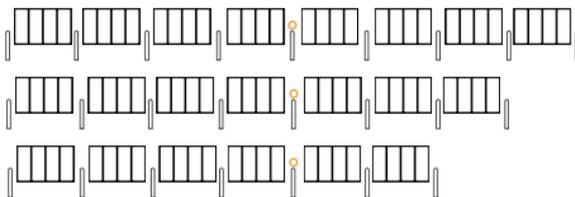
SolTrk technology supports array installations with tilts of up to  $\pm 35^\circ$  relative to the North-South axis, making it ideal for land with oblique borders or uneven terrain. This flexibility ensures efficient land use while minimizing energy production losses. The back-tracking algorithm is fully integrated with the offset function to maintain optimal performance.



# Features

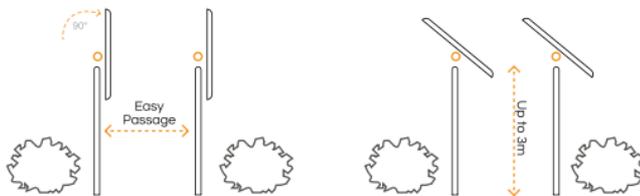
## ○ Adaptive Installation

Engineered for seamless integration into agricultural environments, Luma Agri offers a modular design that allows for customized configurations based on site-specific needs. The tracker's flexibility ensures optimal space utilization for all projects, from small farms to large-scale agrivoltaic projects.



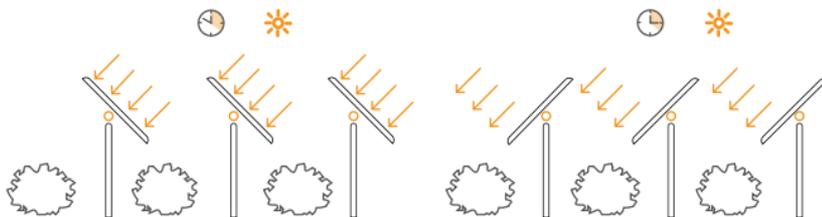
## ○ Fit for Agrivoltaics

With an elevated structure ensuring ample ground clearance, Luma Agri allows uninterrupted access for farming equipment and machinery. It includes a manual positioning function that enables operators to adjust module angles for easy equipment passage and improved field management.



## ○ Programmable (Optional)

Luma Agri can be programmed to adjust module positioning based on crop needs, allowing for controlled sunlight exposure during the most critical hours of the day. This feature helps prevent heat stress, enhance crop yields, and maintain agricultural productivity.



○ Daily Tracking

○ Programmable Crop Insolation

*“Through customized design, innovative technology, and collaborative partnerships, we’re shaping the future of agrivoltaics to support sustainable agriculture and energy production.”*

Ryan Kari  
Strategy Director, KSI Solar



# DESIGNED FOR AGRICULTURE

## Developed with Clients

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Our systems are developed in close collaboration with our customers, ensuring seamless integration with the unique requirements of each agricultural site. Designed for versatility, our trackers adapt to a wide range of terrains - from vineyards to lavender fields - delivering sustainable energy solutions without disrupting existing landscapes.

Our approach to each project is built on:

- Optimizing the tracker positioning
- Preserving the existing agricultural layout
- Designing with sufficient clearances
- Tailoring to all field conditions

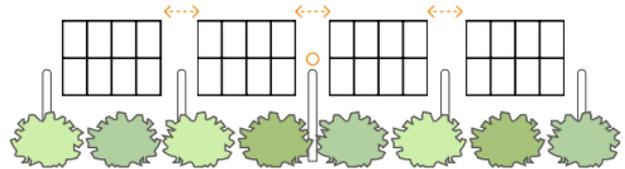


# Refined Design

As agriculture evolves, so must the design of solar trackers. These systems need to offer field-specific features that meet user needs while supporting productivity, not hindering it.

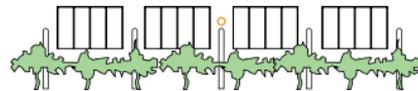
## ○ Adjustable Clearances

Our trackers feature adjustable clearances between sections, designed to accommodate automated harvesting equipment and other agricultural machinery. This flexibility not only provides easy access for maintenance but also ensures even weight distribution, minimizing land impact and maintaining operational efficiency.

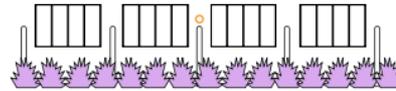


## ○ Adapting to Fields

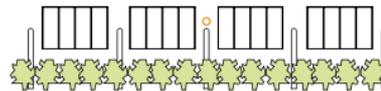
Our systems undergo rigorous testing across all field types and crops, ensuring they perform reliably in diverse growing and harvesting conditions. Whether it's traditional farming or specialized crops, our solutions are designed to seamlessly adapt to any agricultural landscape.



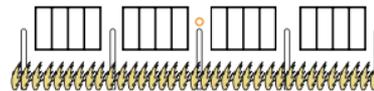
○ Vineyard



○ Lavender



○ Cereals



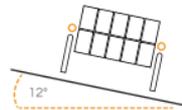
○ Crop

# TERRAIN FOLLOWING TRACKER

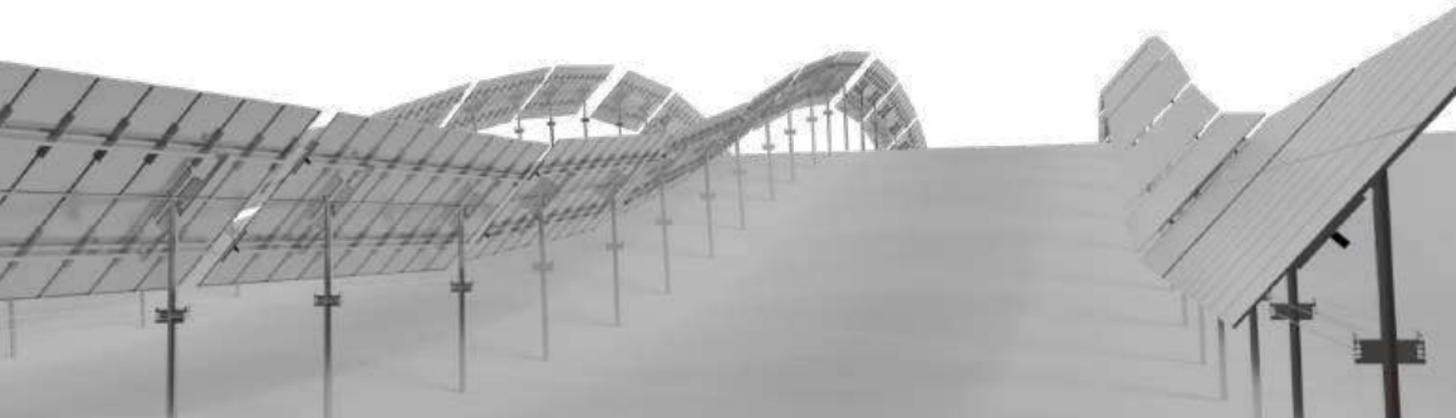
## TFT

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Terrain-Following-Trackers represent a breakthrough in solar technology, enabling energy generation on previously impractical sites. These systems adapt to natural land contours, significantly reducing the need for costly earthwork and grading. By minimizing land disturbance, they lower project costs while also reducing the environmental impact of solar installations on sloped, uneven, and challenging terrain.



- Flexible Implementation  
Veon-TX has a terrain slope adaptability up to 12° to reduce civil engineering work & requirement for flat land.



*“At KSI Solar, we believe that farming and solar energy should work together, not compete for land. Our agrivoltaic tracking systems enable farmers to harvest both sunlight and crops on the same land, maximizing land productivity while maintaining agricultural traditions.”*

Marco Albini  
Managing Partner, KSI Solar





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