# solaredge

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Optimize Your Agri-PV Investment with SolarEdge

Agri-PV projects entail unique challenges — from complex site design requirements and uneven terrain to variable shading and the need for seamless integration with farming operations.

The **SolarEdge TerraMax™ Inverter**, paired **with H-Series Power Optimizers** and the **SolarEdge ONE** monitoring platform, is purpose-built to address these needs. The result: **more energy, lower upfront cost, and smarter monitoring** tailored to agricultural projects.

Powered by trusted technology deployed in 4.3 million SolarEdge-monitored systems worldwide.

Monitoring solutions — SolarEdge ONE — SolarEdge ONE Controller

Power Optimizers — SolarEdge Power Optimizers

Inverters — SolarEdge TerraMax™ Inverter
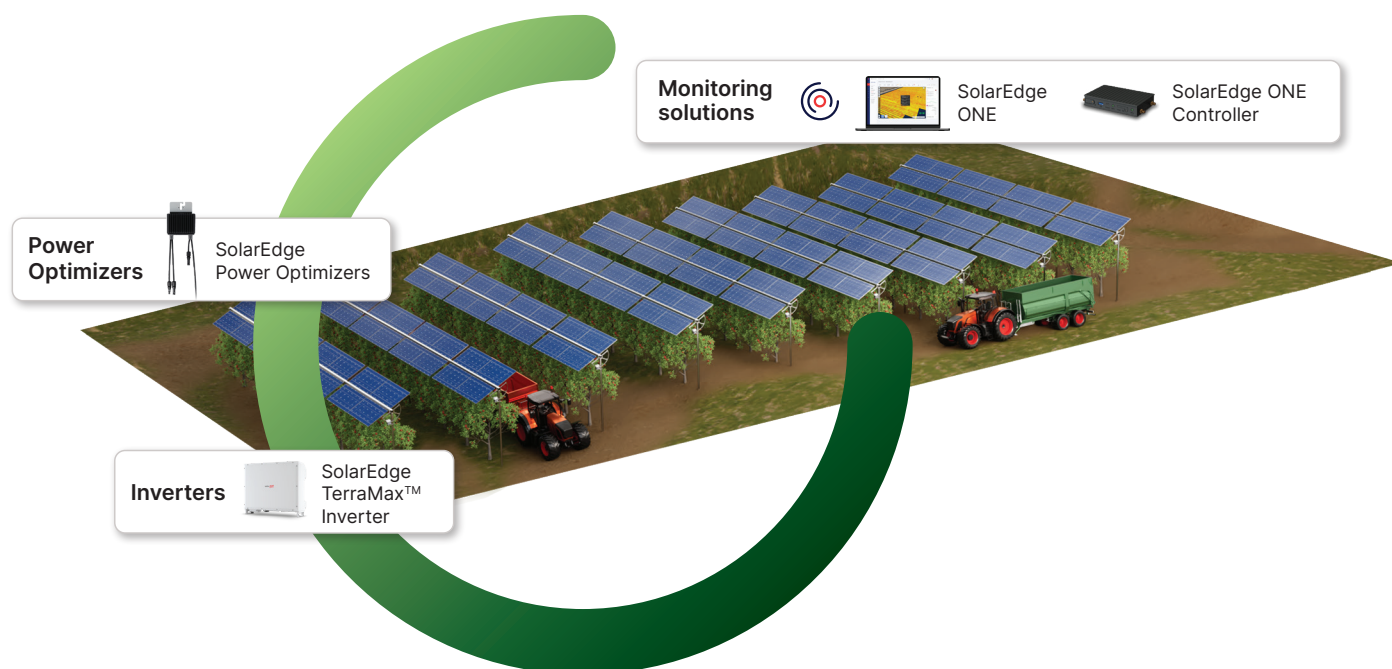
Strategic Advantages, Built for Agri-PV Success

Design flexibility and land-use optimization

- Installation in partially shaded areas, undulating land, and different module orientation
- Longer strings and strings of uneven lengths — up to 80 modules per string
- Distributed and centralized topology
- Reduced trenching and conduit costs — fewer homeruns mean less excavation and materials

String inverter system:
6,940 modules

SolarEdge system:
8100 modules

More energy, optimal land usage, lower BOS

Increased energy production

- Mitigate mismatch losses — from shading, soiling, and dust with SolarEdge Power Optimizers
- Higher energy yields — including on farmland projects with a lower GCR and design constraints
- Mix-and-match flexibility — mix PV modules within each inverter block. Use different module types and different racking systems

Mitigating module-level mismatch

Real-Time Granular Monitoring

- Enables module-level monitoring and maintenance for maximum system uptime and performance
- Real-time identification of issues related to modules, trackers, combiner boxes, etc.
- Data collection for compliance with PV performance monitoring requirements
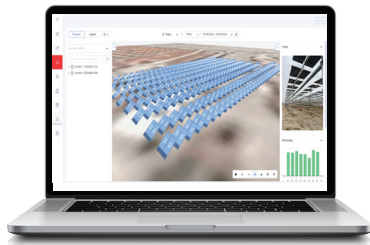
Pinpointed monitoring with SolarEdge ONE

Built-in Safety

- **SafeDC™** - designed to lower string voltage to touch-safe levels
- Improves safety for installation crews, farm personnel, and emergency responders
- Designed for safe operation in environments with people, animals, and agricultural equipment

Protecting people, animals, and equipment

SolarEdge Technologies was selected by Rutgers University for their foundational agrivoltaic research sites.

"The aim of our research is to develop knowledge that will help to establish practices that can help improve both the sustainability and viability of farms through safe and regulated adoption of solar energy.
We are excited to be working with SolarEdge to achieve these goals."

Margaret Brennan,
Associate Vice President, Economic Development Rutgers University

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