



Commercial Offering for Investors and System Owners

for Europe

About SolarEdge

Our Fields of Vision



Carports



Small-Medium Enterprises



Ground Mount



Agriculture



Educational Institutions



Healthcare



Government



Floating Systems



Retail/Warehouses

Making a World of Difference

SolarEdge Monitoring Platform continuously tracks more than **4 million** installations across the globe

4,600+ employees worldwide

647 awarded patents

Systems installed in over **140 countries**

527 additional patent applications

54.5GW of clean energy delivered

>50% of **Fortune 100 companies** have SolarEdge systems on their rooftops

Diversified global manufacturing capabilities

Global Reach

SolarEdge (NASDAQ: SEDG) is a global leader in smart energy, having revolutionized sustainable energy with a ground-breaking intelligent inverter solution that decreases energy costs while maximizing energy production.

360° Support

From project design through to commissioning and advanced asset management capabilities, SolarEdge has the tools to ensure optimal site performance over the system lifetime, with field support and service fleets available across Europe.

Corporate Social Responsibility

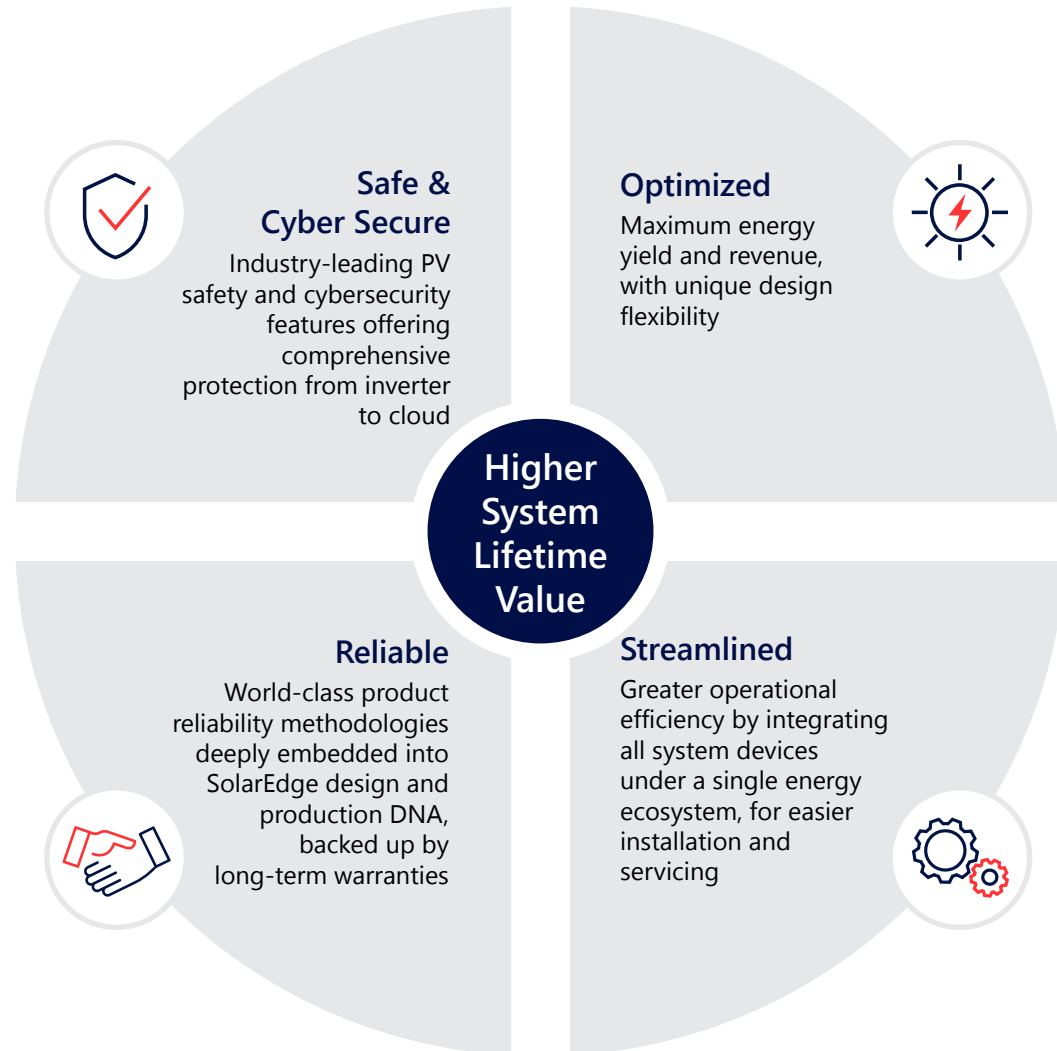
SolarEdge is committed to a sustainable world and is in full compliance with international standards on quality and control, ethical conduct, and environmental protection.

Read our [2023 Sustainability Report](#).

SolarEdge's Standout Values

SolarEdge commercial solutions are driven by our DC-optimized technology, diverse product offering and industry-leading PV safety features.

Together, they help us meet the growing demand and complexities of the rapidly evolving commercial solar market, and provide SolarEdge asset owners with the peace of mind that their long-term investments are protected.



Protecting Your Investment

Maximized System Revenue

The SolarEdge solution offers better Levelized Cost of Energy (LCOE) over the system's lifetime by maximizing yield and reducing costs. It maximizes power generation at the individual module level, which leads to a higher lifetime revenue from PV systems.

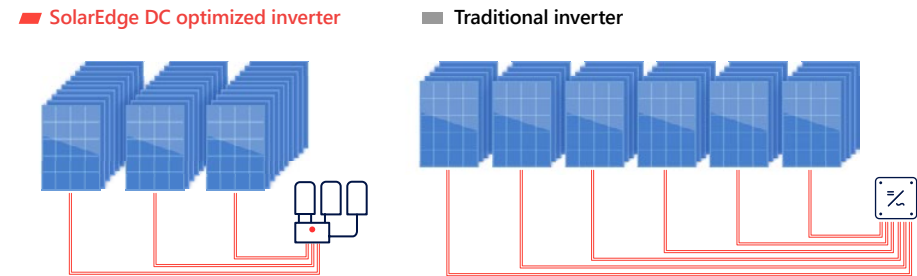
When combining greater yield performance with additional savings in Balance of System, Operation & Maintenance and inverter replacement costs, SolarEdge ensures higher value to the customers during the asset lifetime.

Reduced BoS Costs

SolarEdge Power Optimizers enable more power per string. This means longer and fewer strings when compared to traditional string inverter systems.

The reduction in wiring, combiner boxes and fuses can result in up to 50% BoS savings.

SolarEdge solutions require less wiring:

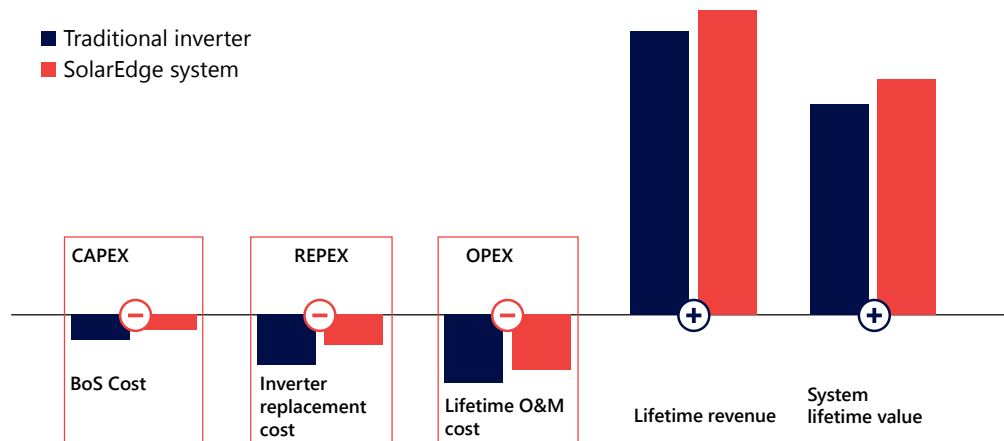


Greater O&M Savings

In addition to installation cost savings, lifetime maintenance costs are also lower with SolarEdge.

Our module-level monitoring and remote troubleshooting capabilities transforms O&M from a manual, resource-intensive process to an automated, at-a-glance service, ensuring that every plant is performing to the best of its ability at all times.

Lifetime PV system cost and revenue:





Safe & Cyber Secure

A world leader in solar safety

The SolarEdge solution is synonymous with safety, with over 50% of Fortune 100 companies having installed our systems on their rooftops. Our comprehensive suite of safety-related technology helps prevent thermal events before they occur, meeting and surpassing the most stringent international PV safety standards. Solar insurance companies around the world also favor our solution for added financial security.

SolarEdge's holistic approach to PV safety is built on three main foundations*:

Prevention

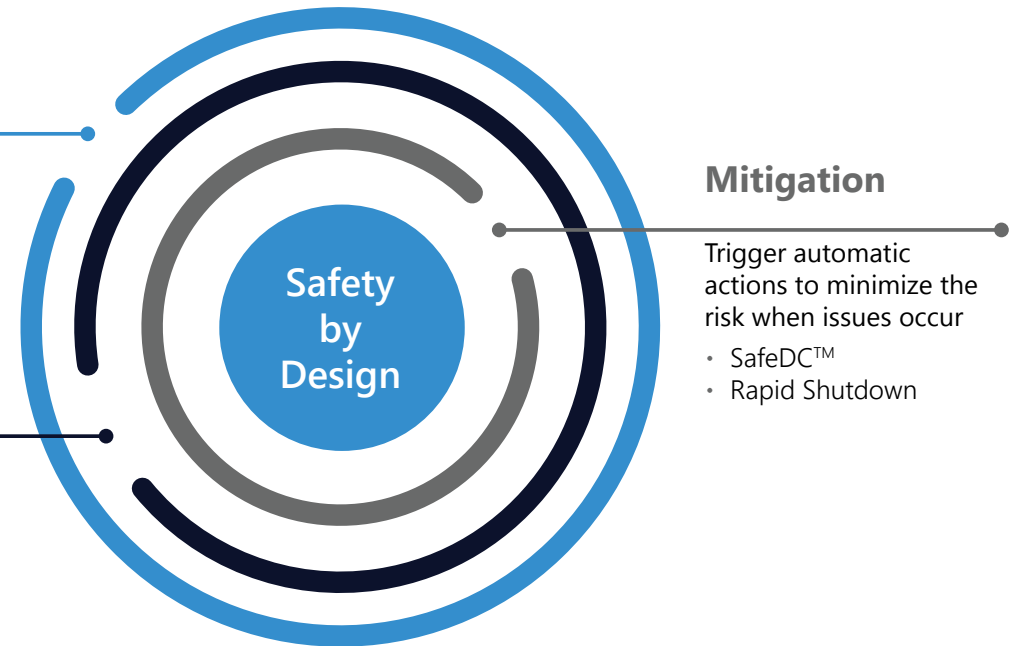
Identify early signs of electric arcs at the module level

- Sense Connect
- Built-in temperature sensors

Detection

Detect arcs and report errors to ensure the situation is handled by professionals

- AFCI
- System alerts



Mitigation

Trigger automatic actions to minimize the risk when issues occur

- SafeDC™
- Rapid Shutdown

* Our safety features may vary between different products and firmware versions

Learn more about SolarEdge PV safety features



Brochure



Video

Safe & Cyber Secure

Setting the standard for solar cybersecurity

Just like solar safety, solar cybersecurity is non-negotiable. By partnering with SolarEdge you get extra protection, throughout the entire PV system lifetime. Our tiered approach to cybersecurity is aimed at protecting data integrity, communications, and business operations from site commissioning through to production.

To safeguard system connectivity, functionality, and customer data, SolarEdge follows the Cyber Informed Engineering (CIE) principle, embedding information security mechanisms into our products from the initial design stages. We continuously adapt and enhance our solutions to align with evolving demands and regulatory standards.

We prioritize the needs of our customers' security teams by designing products to not only be secure but to also ensure maximum visibility and control for its users.

The energy sub-network is structured to securely integrate with your organizations' IT and OT networks.

User data and energy usage data is securely transferred and stored, ensuring maximum data privacy and protection from cyberthreats.

SolarEdge inverters are the heart of the PV system, and together with other SolarEdge devices, are designed to prevent and detect PV system-wide cyberattacks.

Visibility & control

Network security

Data security

Device security



Optimized

Maximum energy yield in commercial installations

Common in commercial installations, module-level mismatch occurs when PV modules in a string have different Maximum Power Points (MPPs), usually the result of soiling, shading, uneven terrain, or module aging. This decreases the energy yield of the entire string.

With Power Optimizers connected to every two modules, the SolarEdge solution mitigates power losses caused by module mismatch, resulting in maximum production from each module. The underperformance of one will not affect the rest of the system.

Unique design flexibility

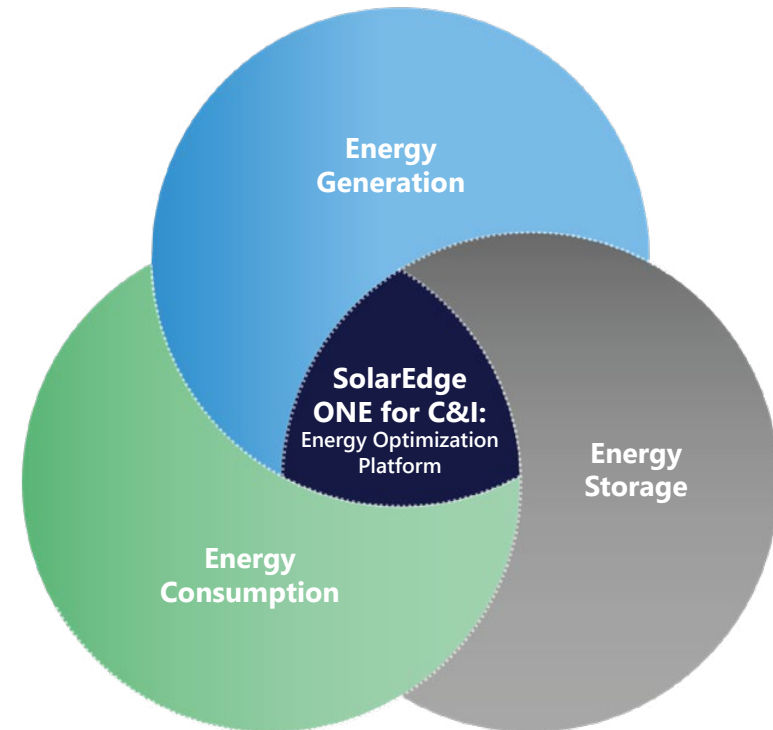
With module-level power optimization and maximum design flexibility, more modules can be installed onsite for increased system capacities that enable shorter project payback periods.

SolarEdge Power Optimizers enable installation of modules in partially shaded areas, strings of uneven lengths, in multiple orientations and different roof facets, or in irregularly shaped fields and sloped terrains.

Energy optimization across the ecosystem

SolarEdge optimizes energy generation, storage and usage by orchestrating decision-making across all site energy assets, from the fleet to the device and module level, via the SolarEdge ONE for C&I platform.

Able to process vast amounts of data every second, the cloud-based ONE platform incorporates customer definitions and market conditions to ensure each component of the SolarEdge ecosystem is performing at its peak. This helps to save costs, lower operational expenses and meet ESG goals throughout the PV system lifetime.





Reliable

- / 25-year Power Optimizer warranty and up to 12-year inverter warranties, extendable to 20 years (for selected inverters)
- / Global manufacturing capabilities with tier 1 electronic manufacturing service companies
- / SolarEdge products and components undergo rigorous testing, and have been evaluated in accelerated life chambers
- / Reliability strategy includes proprietary application-specific ICs (ASIC)
- / Able to withstand the harshest of environments: resistant to ammonia, humidity, dust and saline, functional in a wide temperature range of -40° C to +60° C

“DNV GL views SolarEdge’s approach to product reliability to be thorough and following good engineering practices. These include design for reliability, reliability testing, and analysis of field failure data.”

Source: DNV GL (a leading global risk assessment company) - PV Optimizers and PV Inverter Technology Review, Nov. 2019



Streamlined

SolarEdge enhances operational efficiency by integrating all devices across our energy ecosystem, including external sensors, and employing an open API approach for third-party applications.

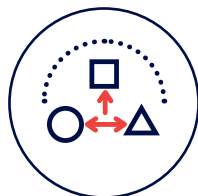
This empowers you to manage the entire energy ecosystem through a single platform and optimize workflows for faster system deployment and reduced resources.

Streamlined Processes



Seamless Integration

With SolarEdge product suite



Open API

For third-party applications



Controlled by a Single Platform

Manage the entire energy ecosystem from a single device

Our Rooftop Offering



11.4 MW, Utrecht, Netherlands
Installed by Xperal

SolarEdge Offering for Commercial Rooftops

Our diverse portfolio is designed to cater to a wide array of C&I rooftop applications. It encompasses a range of product offerings tailored to meet various needs and goals while optimizing performance across the ecosystem, from the PV module up to the site level.

Energy Optimization Solutions



SolarEdge ONE for C&I*



SolarEdge ONE Controller for C&I
New

PV Production



SolarEdge Power Optimizers



SolarEdge Inverters

EV Charging



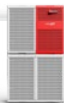
SolarEdge EV Charger

Storage

Commercial Storage Systems



CSS-OD
New**



CSS-ID
Coming soon



SolarEdge 48V Battery

Examples of commercial rooftop applications:



Factories



Retail



Carports



Public Buildings



Warehouses



Multi-Dwelling Units

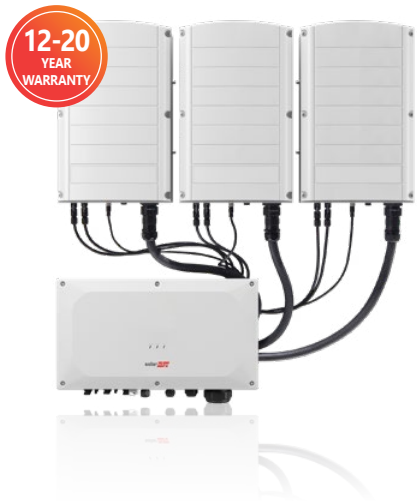
* Currently available for selected customers only

** Gradual release in selected countries only

Three Phase Inverters with Synergy Technology

Ideal for commercial and industrial rooftops, community solar, carports, and more

- / 66.6kW-120kW models, with up to 175% oversizing for maximized system performance
- / Reduces time onsite and lowers costs with innovative pre-commissioning features
- / Combines large capacity with lightweight, modular units for ease of installation
- / Keeps sites safe with built-in SafeDC™ for emergency voltage shutdown and thermal sensors that detects faulty wiring



Three Phase Inverters

Maximizes energy production and safety for small-medium size commercial PV projects

- / 20kW-40kW models, with up to 175% DC oversizing for maximized system performance
- / Reduces BoS costs by up to 50% with longer strings and flexible design
- / Speeds up installs with compact, lightweight inverter units
- / Maximizes system uptime by pinpointing issues with module-level monitoring



S-Series Power Optimizers

Maximizes PV module production and lowers DC BoS costs while providing module-level preemptive safety and visibility

- / S-Series models include: S1000, S1200, S1400
- / Increases overall system yield and revenue by tracking the maximum power point of each individual PV module
- / Includes advanced safety features for maximum protection of people and property
- / Supports installations requiring high input current, bi-facial and high-power 700W modules*, including G12*
- / Module-level optimization with 2:1 PV module to Power Optimizer ratio

* Supported by the S1400



SolarEdge CSS-OD (New*)

Help system owners manage fluctuating energy costs with SolarEdge's new outdoor-rated storage solution

- / 102.4kWh rated indoor/outdoor battery with 50kW battery inverter
- / Includes advanced battery safety features such as fire detection and double fire suppression mechanisms
- / Powered by the SolarEdge ONE for C&I platform that constantly optimizes site energy production, storage and consumption

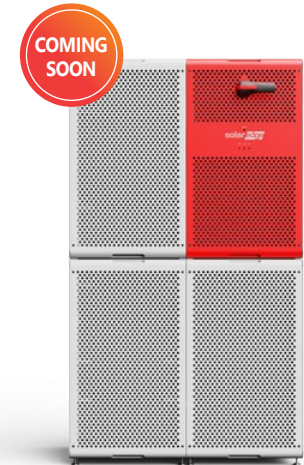
* Gradual release in selected countries only



SolarEdge CSS-ID (coming soon)

Allows businesses to unlock their full energy potential with DC-coupled battery storage, ideal for small-medium size businesses

- / Indoor storage solution rated up to 66kWh per battery unit, supporting DC & AC coupled topologies
- / Includes advanced safety features such as arc detection, module-level BMS, and reverse polarity hardware protection
- / Lightweight, modular and a compact footprint designed for tight European commercial spaces



SolarEdge Battery 48V

Store energy to deliver power when it's needed most with this scalable three phase battery, now available for small-scale commercial projects

- / Features comprehensive system efficiency, generating more energy to store and use for on-grid applications
- / Scalable solution that enables stacking of multiple battery modules per inverter for increased capacity (up to 23kWh per inverter, 69kWh per site)
- / Includes enhanced safety features for battery protection



SolarEdge EV Charger

Utilizes excess PV to charge EVs from the sun for reduced electricity costs

- / Suitable for single and three phase installations, both indoor and outdoor use
- / Up to 32A/22kW charging power
- / ME/MID compliant
- / OCPP compatible
- / Optional RFID card



Energy Optimization Solutions

SolarEdge ONE for C&I*

A cloud-based energy optimization platform, designed specifically for C&I energy professionals.

Incorporating extensive customer feedback as well as our own vast expertise in commercial solar, SolarEdge ONE for C&I places an unprecedented amount of system data at your fingertips, enabling deep performance analysis, monitoring and advanced management capabilities across the energy site.

* Currently available for selected customers only

Operate
& Maintain

For EPCs and
O&M teams

Optimize
& Manage

For Energy
Stakeholders

SolarEdge ONE for C&I orchestrates a site's entire energy portfolio, including:

PV

SolarEdge inverters and Power Optimizers



Storage

SolarEdge CSS-OD and CSS-ID batteries



EV Chargers

Multiple charge points using SolarEdge or third-party devices



Building Assets

Onsite power consumption assets e.g. IOT energy devices, sensors, etc.



SolarEdge ONE for C&I Software Scope

SolarEdge ONE for C&I includes a wealth of innovative capabilities designed to meet the varying needs of system stakeholders.

- EPC
- O&M
- Energy Stakeholders

SolarEdge ONE for C&I				
<ul style="list-style-type: none"> / Digital Twin / Battery Management / Advanced Remote Operation / Improved Site Analysis & Reports / Module-Level Visibility / PV Fleet Management / SolarEdge EV Charger Management 	<h3>Advanced EV Charger Management</h3> <ul style="list-style-type: none"> / Hardware Agnostic / Transaction Management / Dynamic Load Management 	<h3>Load Management</h3> <ul style="list-style-type: none"> / Integrates with HVACs, light systems, etc. / Visibility and Insights / Load Control and Optimization 	<h3>Advanced O&M</h3> <ul style="list-style-type: none"> / Report Builder / Customized Alerts and Dashboards / Satellite PR 	<h3>Advanced Storage Management</h3> <ul style="list-style-type: none"> / Advanced Peak Shaving / Market Participation / Value Stacking
	€	Coming soon €	Coming soon €	Coming soon €

Enterprise | Enterprise | Integration, Insights & Automation €

Energy Optimization Solutions

SolarEdge ONE Controller for C&I (New)

Designed to enable effective site communication and performance

A local communication gateway that seamlessly integrates the site's energy infrastructure including PV inverters, batteries, meters, and more.

- / Combines with SolarEdge ONE for C&I to optimize the use of locally generated energy for lower electricity costs
- / Acts as a cyber gateway for external communications, designed to protect against unauthorized access
- / Complies with grid regulations to enable safe, reliable electricity generation (PPC)
- / Supports integration with third-party digital sensors and energy meters



System Comparison for Commercial Rooftops



1.63MW, Venco Campus, Netherlands
Installed by Alius Energy

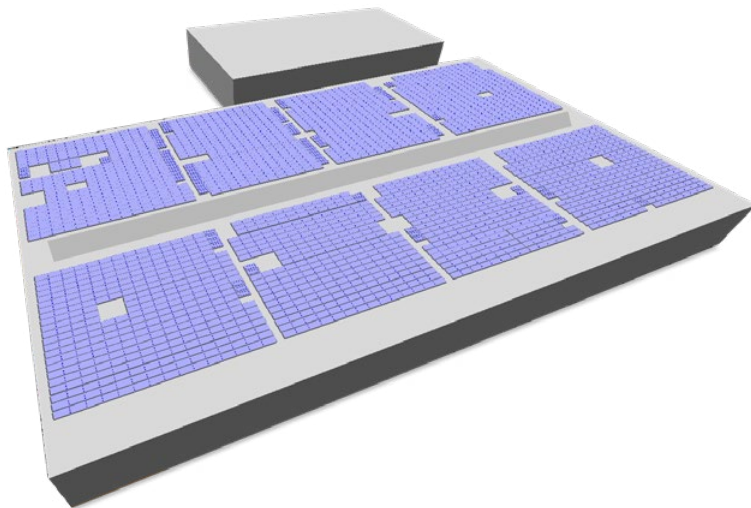
1.3MWp Rooftop System Comparison

- / The rooftop system comprises 2,700 x 480Wp modules
- / SolarEdge system design:
 - / 10 x 100kW Synergy Technology inverters
 - / 1,350 x S1400 Power Optimizers (2:1 module to Power Optimizer configuration)
- / Traditional string inverter system design:
 - / 9 x 110kW inverters

The SolarEdge Energy Advantage

SolarEdge generates more energy over time due to its ability to mitigate the module mismatch caused by uneven PV module aging. Otherwise, there is the risk that eventually, the module voltage levels will decrease and exit the required voltage range needed for the inverter to perform MPP tracking.

	Traditional String Inverter System	SolarEdge System	SolarEdge Advantage
PVsyst Year 1 Yield (MWh)	1,143	1,163	1.7%
PVsyst Year 20 Yield (MWh)	1,024	1,076	5.1%



Higher BoS Cost Savings with SolarEdge

	Traditional String Inverter System	SolarEdge System
DC Power (MWp)	1.3	
AC Power (MVA)	1	
480Wp Modules	2,700	
Inverters	9	10
No. of Strings	150	90
Modules per String	18	30
DC Cable 6mm ² CU (m)	10,190	3,730
AC Cabling (CU) 3 x 70mm ² (m)	1,110	1,037
MC4 Connectors	300	180
Total BoS Costs (+ labor, in c/W)	16.8	14
Overall BoS Cost Savings (c/W)*	-	2.8

* Estimated savings on BoS components based on typical market prices in €

Our Optimized Utility Offering



SolarEdge Ecosystem for Optimized Utility

The limited availability of land suitable for utility scale PV is forcing developers to consider non-standard, challenging, and uneven terrains intended for diverse purposes.

To maximize PV production and profitability of these sites, SolarEdge has introduced the Optimized Utility solution, powered by the SolarEdge TerraMax™ Inverter and H1300 Power Optimizer. Specifically designed to maximize the potential of a wide range of dual-use PV applications, they address the challenges posed by shading and uneven terrain for ground-mount projects in areas not naturally suited to large-scale solar.

Energy Optimization Solutions




SolarEdge ONE



SolarEdge ONE Controller

PV Production



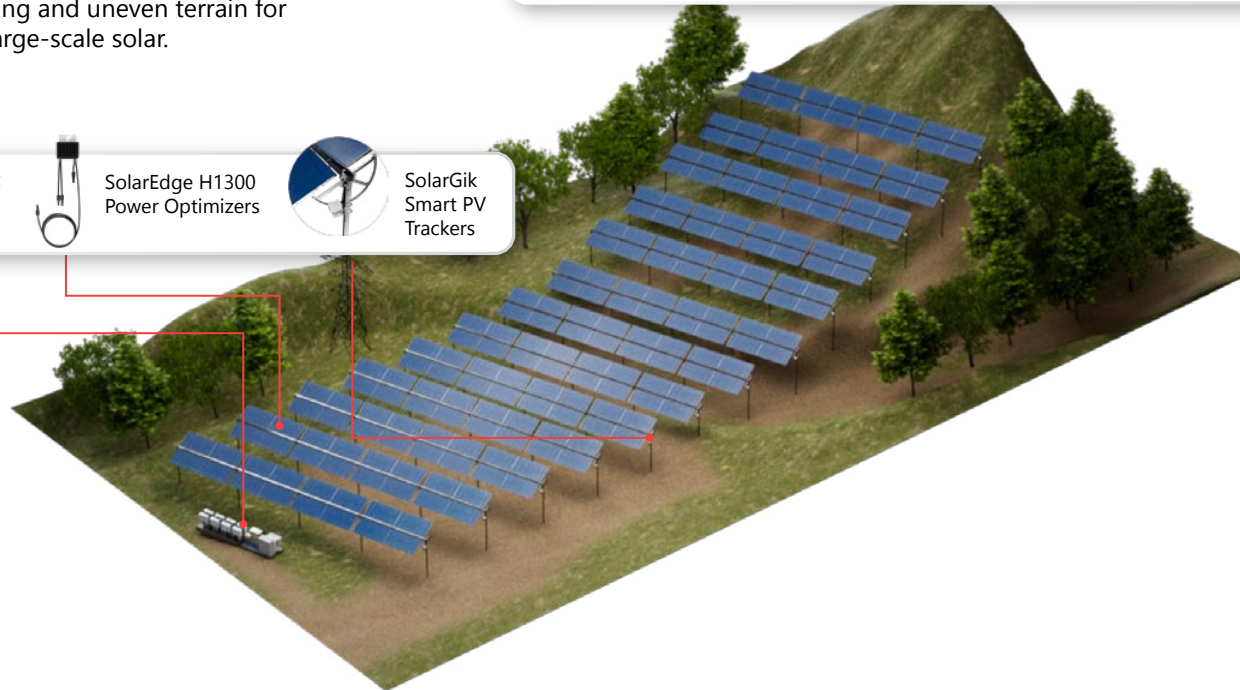
SolarEdge TerraMax Inverters



SolarEdge H1300 Power Optimizers



SolarGik Smart PV Trackers



Examples of Optimized Utility applications:



Empowering Agri-PV with SolarEdge

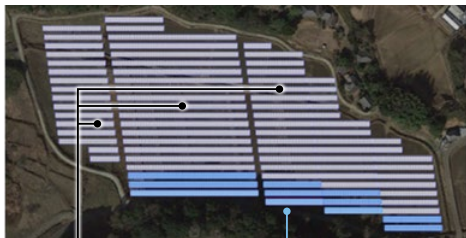
Agri-PV is growing rapidly across Europe, allowing farmers a stable revenue stream, reduction in operating costs and protection against climate change hazards, while opening more opportunities for solar development. Like any solar project, Agri-PV installations come with their own unique set of challenges that must be fully addressed by the selected solar technology to ensure its long-term success.

Using Module Level Power Electronics (MLPE) - the smart choice for your Agri-PV projects

MLPE technology can mitigate some of the main Agri-PV installation challenges by allowing greater design flexibility, maximizing energy yield, ensuring site safety and increasing O&M efficiencies.

SolarEdge's MLPE-based Power Optimizers enable efficient land-use by allowing installations on partially shaded areas, different module orientations and uneven terrains. By increasing coverage potential, SolarEdge offers more options for optimal layout and design.

SolarEdge's solution also ensures that individual PV modules (including bifacial modules and vertical PV) produce at their maximum energy levels, regardless of shading, soiling/ dirt, or module orientation.



Traditional system

More modules with SolarEdge flexible design



Vertical installation powered by SolarEdge

Aligned with Agri-PV best practices and standards

As the global Agri-PV market grows, so have the number of publications detailing Agri-PV best practices and installation guidelines. They list requirements that highlight the importance policy makers are now giving to the following aspects of Agri-PV installations:

- / Maximization of energy production
- / Real-time system visibility
- / Comprehensive site safety

SolarEdge's Agri-PV solution is clearly aligned with market best practices, ensuring optimized energy and agricultural production while maintaining operational efficiencies. We are also working to ensure our solution consistently adheres to and meets the most up-to-date Agri-PV industry regulations and requirements.

In the [Agrisolar Best Practice Guidelines](#) published by SolarPower Europe, MLPE is recognized as the best approach to mitigating potential Agri-PV site electric shocks and fires.



"It is recommended to apply Module Level Power Electronics in Agri-PV systems to reduce risk of electric shocks and fires."



"... advanced MLPE solutions can detect the potential for arcs in advance and mitigate the risk with pre-emptive action. MLPE should be applied in Agri-PV systems to reduce the risk of electric shocks and fires.."

Additional Resources



Brochure

SolarEdge TerraMax™ 330kW Inverter and H1300 Power Optimizer

Specifically designed for ground mount solar projects

SolarEdge's 1500Vdc ground mount solution is ideal for overcoming complicated challenges often posed by shading and uneven terrain on expansive community solar sites.

It reduces Levelized Cost of Energy (LCOE) through higher production and lower BoS costs and also helps streamline installs and maintenance through a unique virtual central topology featuring a single DC input architecture and module-level MPPTs.

- / Increase BoS savings: Flexible design with longer and fewer strings of up to 80 modules
- / Lower O&M costs: Fewer truck rolls with continuous and granular monitoring; reduced project schedule risks with the pre-commissioning feature
- / Deliver more energy: up to 200% DC oversizing, 99% efficiency and 100% power at high temperature levels



SolarGik Smart PV Trackers

Unlock the full potential of non-traditional terrains with PV trackers and its smart tracking control system that enables greater control over the angle of each module - unlike long solar tables.

- / Lower system and installation costs with 30% lighter trackers (20-25kg per kWp)
- / Short, independently controlled, tracker tables that increases accuracy across uneven terrain
- / Increase energy generation, reliability and O&M cost savings

Allows best synergy between agricultural and energy production, maximizing optimization based on various parameters:

- / Understand solar and agricultural seasonal patterns and shifts
- / Balance sunlight distribution between crops and PV modules, based on crop data, weather



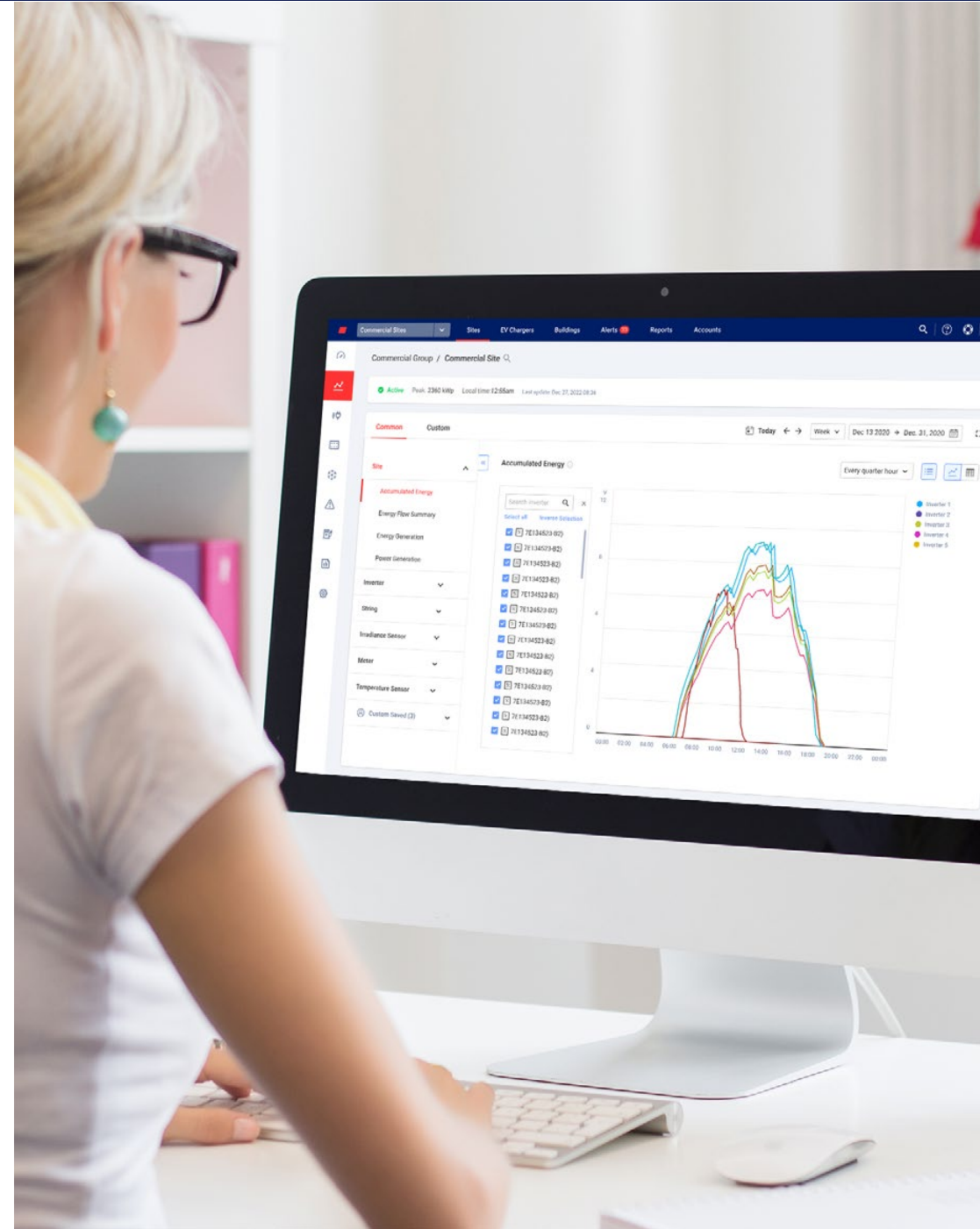
Energy Optimization Platform

SolarEdge ONE

A cloud-based platform designed specifically for O&M professionals.

SolarEdge ONE offers advanced tools enabling continuous system operation and comprehensive monitoring for improved on-site performance. It's designed to lower maintenance costs and labor, from the early stage of system installation and throughout the entire project lifetime.

- / Enables remote device operation and configuration, allowing site control from a distance
- / Ensures each part of the system is performing optimally through a series of key indicators and advanced analytics tools
- / Extends the system lifespan through proactive maintenance and quick response to critical issues with a live alerts system and remote troubleshooting
- / Supports integration with third-party energy meters and digital sensors via the optional SolarEdge ONE Controller onsite hardware



System Comparison for Optimized Utility



6.6 MW, Windach, Germany
Installed by Feneco

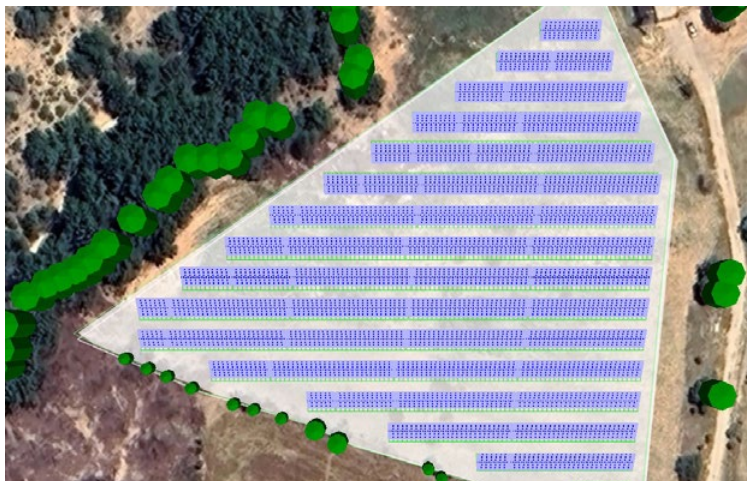
1.19MWp Ground Mount System Comparison

- / The ground mount system comprises 2,050 x 580Wp modules
- / SolarEdge system design:
 - / 3 x TerraMax 330kW inverters
 - / 1,025 x H1300 Power Optimizers (2:1 module to Power Optimizer configuration)
- / Traditional string inverter system design:
 - / 3 x 350kW inverters

The SolarEdge Energy Advantage

SolarEdge generates more energy over time due to its ability to mitigate the module mismatch caused by uneven PV module aging. Otherwise, there is the risk that eventually, the module voltage levels will decrease and exit the required voltage range needed for the inverter to perform MPP tracking.

	Traditional String Inverter System	SolarEdge System	SolarEdge Advantage
PVsyst Year 1 Yield (MWh)	2,034	2,082	2.4%
PVsyst Year 20 Yield (MWh)	1,829	1,942	6.2%



Higher BoS Cost Savings with SolarEdge

	Traditional String Inverter System	SolarEdge System
DC Power (MWp)	1.19	
AC Power (MVA)	1.05	0.99
580Wp Modules	2,050	
Inverters	3	
No. of Strings	80	42
Modules per String	25-26	48-50
Solar DC CU Cable 1x6 mm ² (m)	11,097	5,582
Solar DC AL Cable 1x240 mm ² (m)	-	220
AC Cable 3x240 mm ² NA2XY (m)	122	18
MC4 Connectors (1 pair)	160	42
Datalogger	1	-
DC Combiner 320A 1500vdc 14 strings	-	3
AC Switch 3x320A	3	-
Total BoS Costs (+ labor, in c/W)	1.16	0.79
Overall BoS Cost Savings (c/W)*	-	0.37

* Estimated savings on BoS components based on typical market prices in €

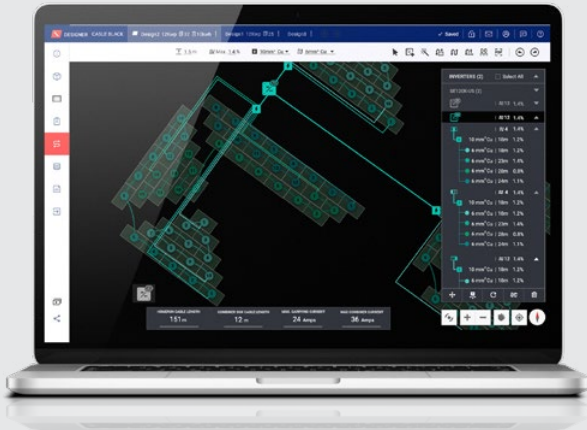
Installer and EPC Tools



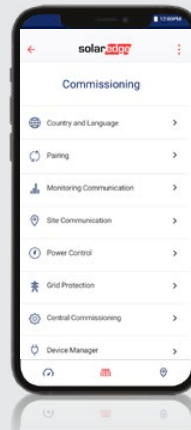
Supporting our installers every step of the way

At each stage of the SolarEdge project life cycle, we provide our installers with all the tools and services they need to ensure optimal project designs, safe and efficient installations, and maximum O&M savings.

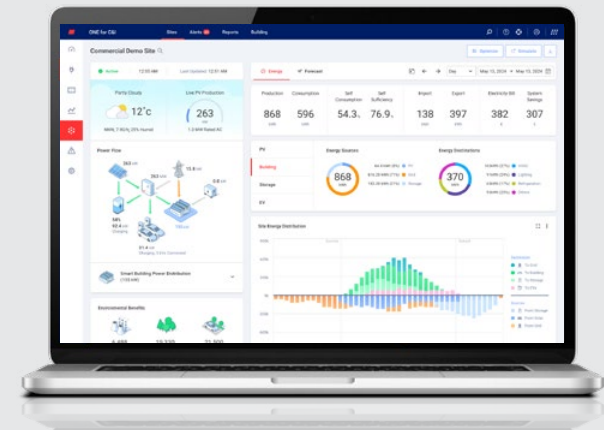
Design and Sell: SolarEdge Designer



Install: / SolarEdge Go / SetApp



Operate and Maintain: / Monitoring Platform / SolarEdge ONE for C&I*



* Currently available for selected customers only

EDGE Academy

Empowering Solar Professionals

SolarEdge has you covered with the EDGE Academy, our award-winning learning services platform designed to transform you into a SolarEdge Pro.

Master the skills of SolarEdge system installation and reduce time onsite with certified training courses that provide the practical knowledge needed to expertly design, install, and maintain SolarEdge systems.



