Commercial Offering for Solar Investors & System Owners
About SolarEdge

About us
In 2006, SolarEdge revolutionized the solar industry by inventing a better way to collect and manage energy in PV systems. Today, we are a global leader in smart energy technology. By deploying world-class engineering capabilities and with a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

Vision
We believe that continuous improvement in the ways we produce and manage the energy we consume will lead to a better future for us all.

Bankability
- Approved by major banks and financial institutions worldwide
- SolarEdge (SEDG) is traded on NASDAQ
- Our financial strength and stability, combined with our cutting-edge technology, has propelled us to become one of the largest inverter manufacturers in the worlds

Global outreach
- Systems installed in over 130 countries across five continents
- Sales via leading integrators and distributors
- Follow the sun call centers
- Local teams of sales, service, marketing, and training experts
- Global manufacturing capabilities with tier 1 electronic manufacturing service companies

Shipping since 2010
- Over two million inverters and 55 million power optimizers shipped worldwide
- SolarEdge’s monitoring platform continuously tracks over a million installations across the globe

Corporate social responsibility
As a global leader in smart energy technologies, SolarEdge is committed to a sustainable world and is in full compliance with international standards on quality and control, ethical conduct, and environmental protection.

Patents
SolarEdge has a vast portfolio of intellectual property, with hundreds of awarded patents and patent applications

Product reliability
- 25-year power optimizer warranty and 12-year inverter warranty, extendable to 20 years
- SolarEdge products and components undergo rigorous testing, and have been evaluated in accelerated life chambers
- Reliability strategy includes proprietary application specific ICs (ASIC)
The Importance of Inverter Selection

Commercial rooftop installation cost breakdown*

Inverters account for less than 10% of the system cost but,
- Manage 100% of system production
- Influence up to 20% of system cost
- Control O&M expenses through PV asset management solutions

Therefore, the inverter selection is critical for the long term financial performance of a PV system as it can maximize energy production and reduce lifetime costs.

* Based on NREL 2017
Increased Revenue

More energy from each module
In a PV system, each module has an individual maximum power point. Differences between modules are unavoidable in commercial installations. With traditional inverters, the weakest module reduces the performance of all modules. With SolarEdge, each module produces at its maximum ability at all times, ensuring greater energy yield from the entire system.

SolarEdge system

● Generates maximum power from each module
● Modules are monitored individually, 2-10% more energy is produced by the PV system

Typical system

● Weak modules reduce the performance of all modules in the string or are bypassed
● Power losses due to module mismatch

Power losses can result from multiple factors, including:

Manufacturing tolerance mismatch
The warranted output power range for PV modules received from a manufacturing plant may vary greatly. A standard deviation of ±3% is sufficient to result in ~2% energy loss.

Soiling, Shading & Leaves
Module soiling, from dirt, bird droppings or snow, contributes to mismatch between modules and strings. While there may be no obstructions during site design, throughout a system’s lifetime, a tree may grow or a structure may be erected that creates uneven shading.

Uneven module aging
Module performance can degrade up to 20% over 20 years, however, each module ages at a different rate, causing aging mismatch, which increases over time.

Advanced Asset Management

**Full visibility of your system’s performance**
- Full visibility into your assets through module-level monitoring – free for 25 years
- Automatic alerts on system issues, pinpointed on a virtual site map

**Anytime, anywhere**
- Complete system status on your mobile device (iOS or Android)

**Future compatibility and warranty**
- 25-year power optimizer warranty; 12-year inverter warranty; Low cost warranty extension to 20 years
- A variety of module models can be used for future replacement and extension
- UL1741 SA certified, for CPUC Rule 21 grid compliance
- For agricultural areas – products are certified for ammonia resistance

**For system lifetime**
- Automatic performance reports
- Remote troubleshooting and enhanced maintenance capabilities
Protecting Your Asset

Advanced safety features
During installation, maintenance and grid or inverter shutdown, power optimizers are designed to automatically switch into safety mode, in which the output voltage of each module will be reduced to 1V. String voltage will be maintained well below risk levels. The SafeDC™ feature meets advanced safety standards (arc fault NEC 2011 & 2017 and rapid shutdown NEC 2014 & 2017).
The SolarEdge safety solution also meets FM Global DS 1-15 engineering requirements.

Protection of people and property
Module-level shutdown is designed to occur automatically in either of these cases:
- A building is disconnected from the electrical grid
- The inverter is turned off
- Power optimizer thermal sensors for each module detect rising temperature (threshold 185°F)

Arc fault detection
SolarEdge inverters comply with the UL1699B arc detection standard designed to mitigate the effects of some arc faults that may pose a risk of fire.
19.5GW of systems shipped worldwide

Ground mounts

Industrial rooftops

Farms & agriculture

Public buildings

Carports, floating systems & safety
Ground Mounts

Turkey, 5MW

MA, United States, 1MW

France, 2.7MW  Ground & roof mounted

FL, United States, 1MW
Industrial Rooftops

The Netherlands, 2MW

United Kingdom, 1.63MW
Western International Market, London. The installation won the 2015 Annual European Energy Service Awards for ‘Best Energy Project’

Italy, 1.3MW

NJ, United States, 525kW
Agricultural Rooftops

Denmark, 1.22MW

Israel, 700kW

The Netherlands, 303kW

Canada, 90kW
Public Buildings

Singapore, 1MW
Singapore American School

UT, United States, 700kW
Harmons Grocery Store

IA, United States, 300kW
Ft. Madison school, Iowa

The Netherlands, 303kW
School De Meerwaarde, Barneveld
Carports

The Netherlands, 3MW
39 Electric Car Charging Stations

OH, United States, 335kW
Honda Motorcars, Ohio

Fire Safety

NY, United States, 41.7kW
Putnam Lake Fire Department

HI, United States, 220kW
Kuakini Hospital, Hawaii
**Floatovoltaic Systems**

**The Netherlands, 780kW**  
De Krim Holiday Resort, Texel Island  

“De Krim Resort invested in a solar PV system to be environmentally friendly and generate our own electricity. Thanks to asset reuse, high performance, and a positive impact on water quality, the floating installation is expected to far exceed the estimated return on our investment.”  
> Iwan Groothuis, Managing Director, De Krim Resort

**The Netherlands, 232kW**  
Everstekoog Sewage Treatment Plant, De Koog  

“The use of floating solar PV at water treatment facilities that have available water bodies and need to use electricity for water treatment operations is gaining traction. The floating solar park at the Everstekoog water treatment site powers all public street lamps (LED) on Texel Island.”  
> Nicol Schermer, Manager, Texel4trading

**United States, 386kW**  
Far Niente Winery, California  

The 386kW installation, partially ground-mounted and partially floating on pontoons atop the winery’s irrigation pond, has become a net-zero energy establishment. The floating system enables the winery to preserve nearly an acre of vineyard land, and helps to reduce the amount of water lost to evaporation by shading the previously uncovered pond.
The SolarEdge solution consists of inverters, power optimizers, and a monitoring platform. The technology provides superior power harvesting and module management by connecting power optimizers at the module level. The ability to connect two modules to just one optimizer, combined with DC to AC conversion and grid interaction being centralized at a simplified PV inverter maintains a competitive cost structure.

2:1 and 4:1 power optimizer configurations
- Module-level MPPT - no mismatch power losses
- Strings of uneven lengths, modules on multiple azimuths & tilts
- Compatible with all three phase SolarEdge inverters
- SafeDC™ - automatic module-level safety shutdown

9kVA - 100kVA inverters
- Native support for both 208Vac and 277/480Vac grids
- Specifically designed to work with power optimizers
- High efficiency
- Simple and reliable

Monitoring platform
- Full visibility of system performance
- Access via browser or any Android, iOS smart phone or tablet
- Automatic performance and alert reports

SolarEdge data logger
Connection of environmental sensors with several wireless communication options, providing monitoring and control

Performance monitoring
Calculate site performance ratio and measure environmental conditions, using environmental sensors or a satellite-based service.

Grid interaction
Supports power control, e.g. zero export limitation, local and remote active/reactive power control, inverter AC relay control for secondary grid protection; low voltage and frequency ride through.

SolarEdge Commercial Offering
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SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems.

The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system. Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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