Slide Collection for Enterprise Partner

December 2025

400kWp carport and 768kWp on roof_Evolv
Waterloo, Canada

Global leader in smart energy production, storage and management

4.4M+ monitored systems

140M Power Optimizers shipped

60.1GW Systems shipped worldwide

6.9M Inverters shipped

Serving global, diverse markets

Systems installed in **145+** countries

3.9M+ Homes

50%+ of Fortune-100 Companies[1]

92,000+ SolarEdge Installers[2]

Our edge

3,200+ employees

- Power electronics and engineering
- Automated manufacturing
- Software development, data science, cybersecurity
- Installer experience, service and learning services

Data as of Q3 2025

1 Have SolarEdge technology on their rooftops

2 Based on the number of installer accounts on our monitoring portal

solaredge

Optimized Energy Ecosystem for C&I Rooftops

Designed for a variety of Commercial and Industrial applications*

SolarEdge ONE for C&I

SolarEdge ONE

SolarEdge ONE Controller - **NEW**

Power Optimizers

SolarEdge Power Optimizers

Inverters

SolarEdge Three Phase Inverter with Synergy Technology

SolarEdge Three Phase Commercial Inverter

EV Chargers

SolarEdge ONE EV Charger - **NEW**

Storage

SolarEdge Commercial Storage System – OD

* Not all products are available in all regions.

A Holistic Approach to Solar Safety

All SolarEdge Commercial solutions come equipped with a suite of advanced safety features, designed to help stop issues before they start.

SafeDC™

A built-in, module level feature, SafeDC™ automatically reduces DC voltage to touch-safe levels within 5 minutes of inverter shutdown, enabling maintenance & emergency response.

Rapid Shutdown

With Rapid Shutdown, the power in the modules and string wires are automatically reduced to 1V within 30 seconds, so firefighters and first responders can work safely during daylight.

Arc Fault Detection & Prevention

Arc Fault Detection & Prevention recognizes and terminates electric arcs, that may pose a risk, through automatic inverter shutdown for string lengths up to 400m.

Built-in Temperature Monitoring

Thermal sensors proactively monitor and detect faulty wiring that can potentially lead to overheating connections or electric arcs.

Module-Level Monitoring

Module-level monitoring helps asset managers stay proactive, recognize potential issues in advance, and ensure maximum uptime. Through real-time insight, notifications and alerts, it's easy to keep people and property protected at all times.

solaredge

Higher Yield

Unlock higher energy yield from every panel through advanced optimization technology.

SolarEdge Technology

Power Optimizer

Influencing Factors

Soiling
Mitigating soiling losses by optimizing each panel individually, maintaining higher energy production and efficiency.

Shading
Minimizing shading impact by optimizing each panel individually, maintaining high energy output and efficiency.

Ageing
Mitigating PV aging effects by optimizing each module, ensuring long-term performance and system reliability.

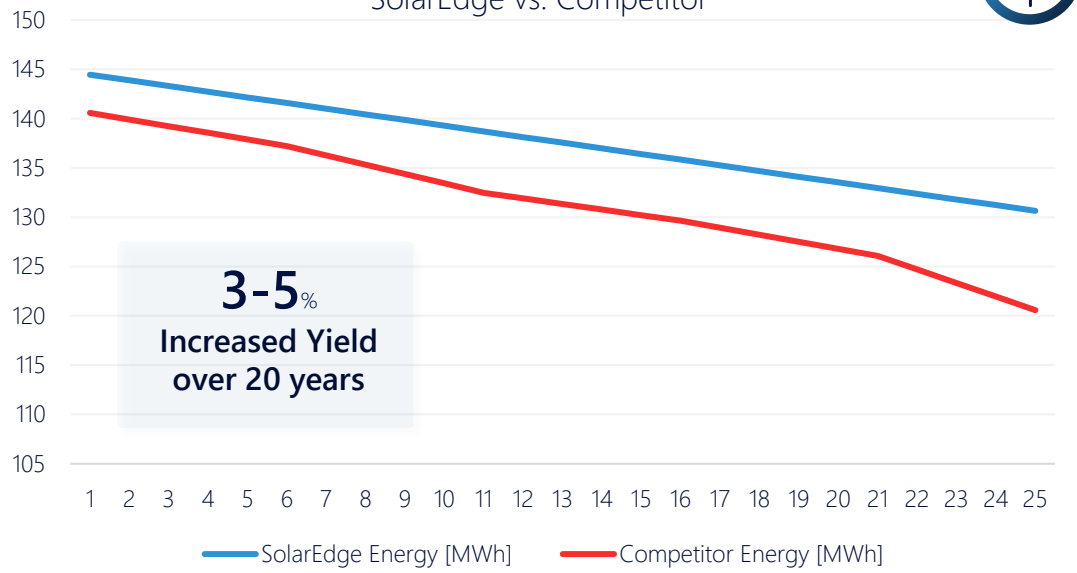
Cable Faults
Reducing cable fault risks by isolating issues, enabling fast detection, and enhancing system safety.

Panel Defects
Reducing performance loss from panel defects by optimizing and monitoring each module individually in real time.

Mismatch
Reducing mismatch losses by up to 1.5% - 2% compared to traditional string systems in completely unshaded circumstances.

Annual Output Degradation over 20 years

SolarEdge vs. Competitor

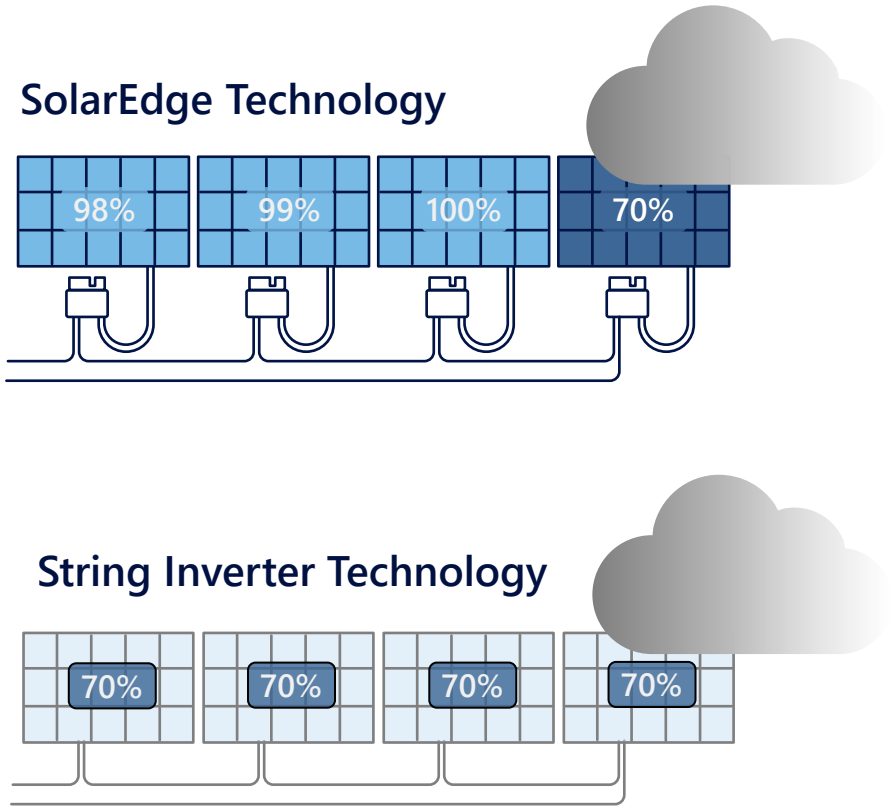


SolarEdge System
Produces higher yield through optimizing panel output avoiding shading, soiling or other sources of panel mismatch.

String Inverter System
Starts with lower yield with further decrease as panels degrade over time lowering the overall system output at an increased rate.

Higher Yield

Independent Panel optimization, bypassing weak modules and enabling flexible design for maximum energy yield.



Avoiding Module Mismatch with SolarEdge

- Shading (current & future)
- Thermal mismatch
- Different tilt & orientation
- Bi-facial mismatch
- Soiling
- Aging

Faster ROI
Improved performance shortens the payback period of your PV installation.

Improved System Reliability
ensures consistent performance, fewer failures, and longer system life with minimal maintenance needs.

Lower Maintenance Costs
Identifying and fixing underperforming panels due to Module Level Monitoring.

Higher Revenue
Increasing energy output, boosting revenue through higher system efficiency and performance.

Secure Your Future with SolarEdge, Your Cybersecurity Partner

As an industry leader in PV technology, SolarEdge clearly recognizes the cybersecurity risks to its customers and national grids.

We see it as our responsibility to advocate for tougher industry standards as a minimum baseline and to develop cyber-secure products.

SolarEdge's leading approach to cybersecurity includes:

670 kW, Super U Beaune la Rolande
Installed by Enr J Solaire

Making cybersecurity an organizational priority

Backed by substantial investment, a dedicated team of experts lead our cyber efforts

Setting industry regulatory and policy standards

We are an active participant in various global cyber forums.

Developing products with cybersecurity top of mind

Ensuring our customers are protected from ever-evolving cyberthreats is at the heart of SolarEdge product design

solaredge

Organizational priority

Cybersecurity is at the Core of Our Business

Technical Expertise

- Technical Director for Product Cybersecurity & Seasoned CISO
- Dedicated secure development lifecycle (SDL) team
- Acquisition of a large team of cybersecurity experts with a proven track record
- In-house “Red Team” & Vulnerability researchers
- External partnership with an industry-leading incidence Response Team (IRT)

Supply Chain Controls

- Vendor vetting process for hardware components (HBOM)
- Software provenance end-to-end in EU and Israel for both Inverter and Gateway Controller
- Security analysis of third-party code
- Secure manufacturing site controls
- Self manufacturing of ASICs

Organizational Priority

- Cyber awareness training for all SolarEdge employees
- Recurring Penetration testing & mitigation work plan
- Vulnerability Disclosure Program for external researchers (Bug Bounty)

* While others complain about “talent shortage,” we advance

Enhanced Safety & Security

Our layered approach for protecting the solar energy ecosystem, from installation to production

Proactive security measures, continuous monitoring, and the ability to rapidly respond to an incident, if it occurs.

Visibility & Control

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

Network Safeguards

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

Data Protection

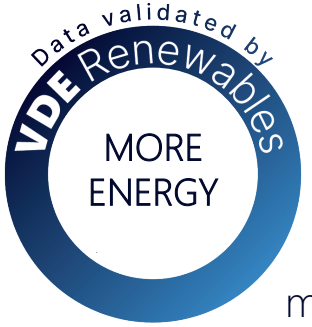
User data and energy usage data is securely transferred and stored, ensuring maximum data privacy and protection from cyberthreats.

Device Security

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.

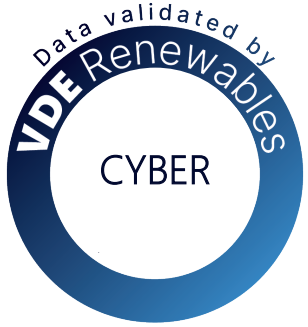
solaredge

A new report by VDE Renewables demonstrates SolarEdge's technology advantages:



"SolarEdge's MLPE topology addresses issues caused by PV module power losses.... This ensures optimal performance for each module, minimizing losses and **delivering the maximum possible power to the inverter**"

"SolarEdge **addresses key safety challenges** in PV systems through advanced technologies .....these advanced features **build trust in solar technology** and reinforce SolarEdge's commitment to safe, reliable, and high-performance PV systems"



"SolarEdge provides a clear example of how **robust cybersecurity mechanisms are essential** to mitigating risks associated with cyber threats. The company's approach to cybersecurity demonstrates **alignment with international best practices**..."

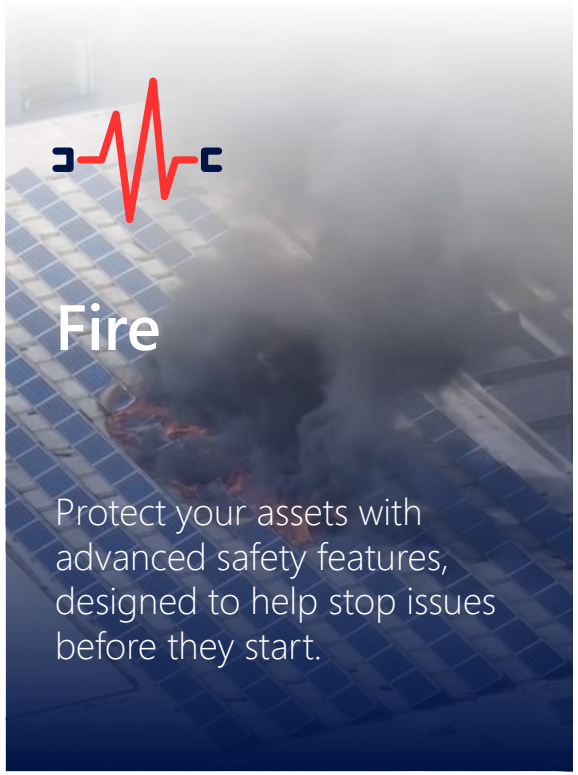
Read the full VDE Renewables report

Source: VDE Renewables: SolarEdge report, April 2025

solaredge

Risk Categories

Protect your PV investment by choosing solutions that reduce fire risk, defend against cyber threats, improve insurability, and ensure long-term performance reliability.

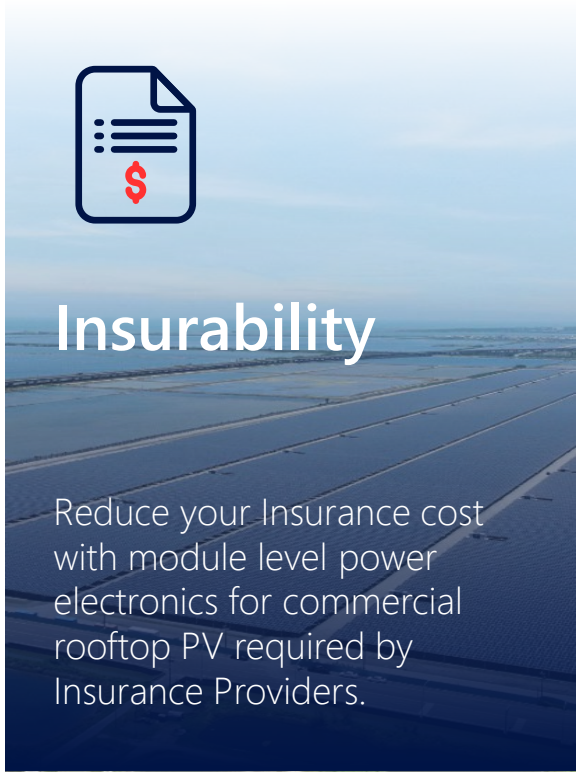


Fire

Protect your assets with advanced safety features, designed to help stop issues before they start.

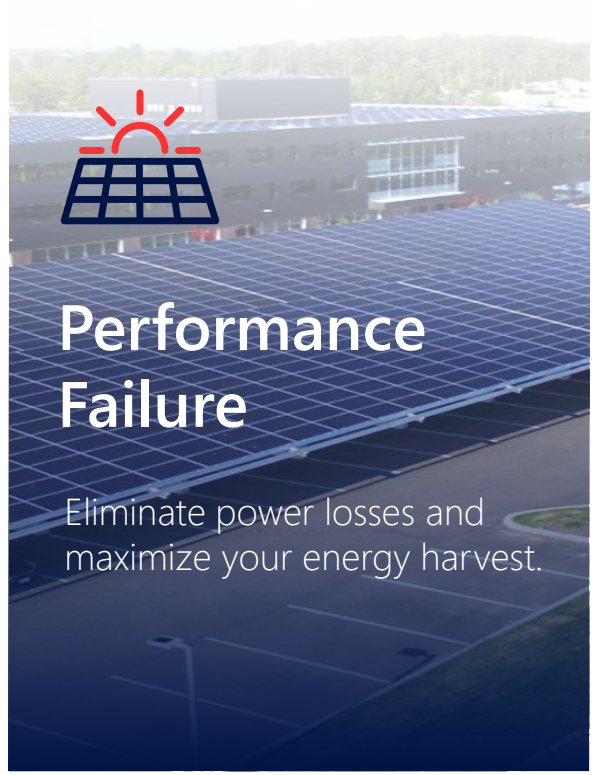
Cyber

Protect your PV ecosystem with the highest cyber security standards.



Insurability

Reduce your Insurance cost with module level power electronics for commercial rooftop PV required by Insurance Providers.



Performance Failure

Eliminate power losses and maximize your energy harvest.

Fire Risk Tree

Risk of Fire

Fire risks include electrical faults, overheating, faulty installations, arc faults, poor wiring, shading issues, and inverter failures.

SolarEdge Risk Mitigation

SafeDC™
SafeDC™ minimizes voltage, ensuring safety.

Rapid Shutdown
Rapid shutdown ensures emergency safety.

Arc Fault Detection & Prevention
Detects and eliminates dangerous electric arcs swiftly.

Built-in Temperature Monitoring
Monitors temperatures, optimizes performance, prevents overheating.

Module-Level Monitoring
Proactive monitoring ensures uptime, safety, and issue detection.

Health & Safety Hazards
Fire incidents can cause severe injuries or fatalities, endangering building occupants and workers.

Physical Damage to Buildings
Flames and smoke can destroy infrastructure, leading to costly repairs and reduced structural integrity.

Financial Loss
Fire-related damages result in significant costs for rebuilding, insurance claims, and lost assets.

Disruptions to Building Operations
A fire can halt normal operations, causing downtime and logistical complications.

Opportunity Costs
Lost productivity and time due to fire recovery efforts can impact business growth and revenue.

Physical Damage to PV Systems
Solar panels and electrical components can be destroyed, compromising energy generation capacity.

Cost of Replacing PV Systems
Burnt-out solar infrastructure requires expensive replacements and reinstallation efforts.

Reduced Energy Yield & Generation
Damaged PV systems cannot produce power efficiently, leading to lower output and reliability issues.

Increased Peak Energy Costs
Without proper solar generation, businesses must rely on costly grid electricity during peak hours.

Cyber Risk Tree

Risk of Cyber Attacks on Inverters

Solar inverters face cyber risks from hacking, remote shutdowns, data breaches, unauthorized access, malware, insecure configurations, and supply chain vulnerabilities.

SolarEdge Risk Mitigation

Protect your PV Ecosystem with the highest cybersecurity standards.

- **Device Security**
  SolarEdge devices safeguard systems from cyber threats effectively
- **Data Protection**
  Secure transfer protects user data privacy and integrity.
- **Network Safeguard**
  Secure energy sub-network integrates safely with IT and OT.
- **Visibility & Control**
  Seamless integration offers full control and visibility.

Unauthorized Access
Hackers may gain control of inverters remotely.

System Shutdowns
Malicious actors can disable inverters, disrupting operations.

Grid Instability
A compromised inverter may negatively impact the energy grid.

Operational Disruptions
Businesses may face downtime due to inverter failures.

Financial Loss
Increased grid fees and energy inefficiencies can raise costs.

Network Breaches
Inverters may be exploited as entry points into IT networks.

Lateral Movement
Attackers can spread through systems, impacting critical infrastructure.

IT Infrastructure
Cybercriminals can extend attacks beyond energy assets to compromise corporate IT systems.

Data Leaks
Unauthorized access can lead to exposure of classified information.

Financial Loss
Increased grid fees and energy inefficiencies can raise costs.

Legal & Compliance Risks Breaches could result in regulatory violations and penalties.

Operational Disruptions
Cyber incidents may halt energy production, affecting other assets.

Financial Loss
Increased grid fees and energy inefficiencies can raise costs.

Ransomware Threats
Cybercriminals may lock access to systems, demanding payment to restore operations.

Financial Loss
Ransomware attacks or grid inefficiencies increase costs.

Insurability Risk Tree

Risk of Insurability of Assets

PV assets face risks from climate change, warranty issues, supply chain disruptions, cyber threats, evolving regulations, and technological uncertainties, impacting long-term insurability and financial stability.

SolarEdge Risk Mitigation

Integrate advanced safety, monitoring, and compliance features to reduce risk and align with insurer requirements.

Module-Level Optimization
SolarEdge devices safeguard systems from cyber threats effectively

25-Year Warranty
Secure transfer protects user data privacy and integrity.

Cybersecurity & Compliance
Secure energy sub-network integrates safely with IT and OT.

Superior Safety
Achieve PV safety through a multi-faceted approach.

Increased Insurance Costs
Premiums increase due to weather risks, operational failures, and cybersecurity vulnerabilities, impacting financial stability.

→ **Extended Break-Even Period**
Higher costs delay profitability, making renewable energy investments less attractive to stakeholders.

Increased Real Estate Insurance
Buildings with PV systems face higher premiums due to fire hazards and electrical failures.

→ **Feasibility Doubts**
Uncertain insurance terms lead investors to question the viability of solar projects.

Disputed Claims
Complex policies cause disagreements, delaying financial compensation and creating uncertainty.

→ **Expensive Legal Proceedings**
Litigation over claim disputes increases costs and burdens businesses financially.

→ **Higher Compliance Efforts**
Companies invest more in risk management, increasing operational expenses and complexity.

Physical Damage to PV Systems
Solar panels and electrical components can be destroyed, compromising energy generation capacity.

→ **Stricter Business Case Reviews**
Investors and insurers demand in-depth risk assessments, slowing approvals and funding.

→ **Project Delays**
Stronger evaluations prolong implementation timelines, affecting renewable energy deployment goals.

→ **Escalating Capital Costs**
Insurance, compliance, and risk mitigation expenses raise financial barriers for solar infrastructure projects.

Performance Failure Risk Tree

Risk of Performance Failure

The risk of product failure in PV systems stems from component degradation, installation errors, or environmental stress.

Failure to Achieve PV-Performance

Forecasted PV energy generation is not met due to underperforming PV assets and delayed maintenance.

Failure to generate planned revenue

Planned revenue generation from selling the energy or avoiding purchasing grid energy is not realized.

Failure to meet PPA obligations

In case of a PPA agreement there may be contractual obligations that cannot be met due to impacted performance.

Cost for Procuring Grid Energy

Required energy must be procured from the grid at a higher than projected cost.

Cost of Replacing PV Systems

Burnt-out solar infrastructure requires expensive replacements and reinstallation efforts.

Reduced Energy Yield & Generation

Damaged PV systems cannot produce power efficiently, leading to lower output and reliability issues.

Increased Peak Energy Costs

Demand peaks cannot be lowered through PV energy leading to increased peak demand charges.

SolarEdge Risk Mitigation

Benefit from smart optimization, real-time monitoring, and built-in safety to keep your PV system running at peak efficiency.

Module-Level Optimization
More energy yield and no string-level bottlenecks.

Real-Time Monitoring & Alerts
Module-level visibility and automated alerts for underperformance, faults, or shading issues.

Smart Design Flexibility
Maximizes roof space and avoids design-related inefficiencies.

Built-In Safety & Reliability
Fewer failures, safer operation, and lower O&M costs.

Three Phase Inverters with Synergy Technology, up to 100kW

Modular and lightweight units managed by a single point of control:

High capacity

- Up to 100kW @400Vac grid

More energy

- 175% oversizing
- Built-in PID rectifier
- Continuous energy flow, even when one of the Synergy units is offline

Enhanced safety

- SafeDC™ and integrated arc fault protection
- Built-in thermal sensors that detect faulty wiring

Lower BoS costs

- One AC connection to Synergy manager unit
- Streamlined cabling

solaredge

Three Phase Inverters

Ideal for small-medium size solar projects

- 20kW-33.3kW @400Vac grid
- Faster installs with compact, lightweight inverter units
- Greater performance with 175% oversizing
- Enhanced safety with SafeDC™, integrated arc fault protection and optional rapid shutdown
- Reduced BoS costs with longer strings and flexible system design

solaredge

S-Series Power Optimizers

S1000 & S1200

Smart design. Simple cable management. Safe installations

- Increases overall system yield and revenue by tracking the maximum power point of every two PV modules
- Supports high input current, bi-facial and high-power M10 modules, up to 600W
- Overcomes complex layouts by installing modules in multiple orientations and tilts
- Lowers BoS costs with flexible system design that enables fewer, longer strings (up to 23kW per string), strings of different lengths
- Maximizes safety protection with built-in SafeDC™ and SolarEdge Sense Connect

solaredge

S-Series Power Optimizers

S1500

Supercharge your solar installations with SolarEdge's most powerful next generation Power Optimizer

- Greater power density enables record-breaking 30.4kW of power per string, for fewer and longer strings (compared to S1000/S1200)
- Supports high input current, bi-facial and high-power M10 & G12 modules, up to 750W
- Maximizes protection with built-in SafeDC™ and SolarEdge Sense Connect
- Easier to install, especially in challenging spaces, with ~15% slimmer profile

solaredge

CSS-OD

Battery Cabinet and Battery Inverter

- 102.4kWh (rated)/50kW, scalable to 1MWh*
- Rated for outdoor & indoor use
- 10-year warranty for system and 6000 cycles performance warranty, from a bankable vendor
- Pre-assembled cabinet for minimal on-site work
  - Fast deployment
  - Reducing installation errors
- Advanced safety
  - Fire detection & double layer of suppression
  - Built in AC + DC SPDs
  - O&M and alerting via SolarEdge ONE and Go
- Built-in HVAC
- Two-cluster design for resiliency
- Weight: 1.5T

* Pending a firmware update, the initial release shall support a single Battery Inverter and a single Battery Cabinet in on-grid applications.

Thank You

solaredge

Cautionary Note Regarding Market Data & Industry Forecasts

This power point presentation contains market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

Version #: V.1.0