

Purpose-built to keep your power reliable and efficient

EcoStruxure™ Power Monitoring Expert

se.com/PME

Life Is On

Schneider
Electric

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Discover EcoStruxure Power Monitoring Expert



Award-winning EcoStruxure Power Monitoring Expert

Your facility's power is critical to your operations. Disruptions impact productivity and safety, and wasted energy and equipment failures affect your bottom line. You need a way to reveal hidden risk and opportunities.

Award-winning EcoStruxure™ Power Monitoring Expert (PME) is purpose-built to help power-critical and energy-intensive facilities maximize uptime and operational efficiency. As a key element of EcoStruxure Power, PME is the window to your digitized power network, taking advantage of IoT connectivity and distributed intelligence.

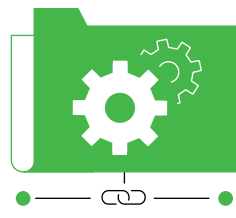
As power grid technology becomes more dynamic, systems more complex and regulations more challenging, PME brings unique new capabilities that make it simpler to protect people and assets, keep operations running, and save time and money.

EcoStruxure Power Monitoring Expert simplifies management of complex power systems.

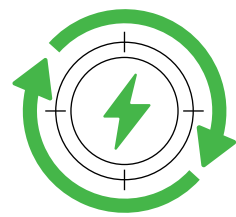
[Watch the video](#)

Gain valuable insight into your power network

Power Monitoring Expert gives insight into electrical system health and energy efficiency so you can make informed decisions to improve performance.



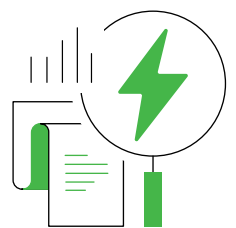
Open, scalable architecture that connects to smart devices across your electrical system – power and energy meters, protective relays and circuit breakers, RTUs and PLCs, VSDs, UPS and PQ mitigation equipment – and integrates with process control systems and many other enterprise platforms.



Convert data to action with a customizable and intuitive web interface to allow real-time power and equipment monitoring. Use PME to track KPIs for energy and reliability, or share energy, sustainability and PQ metrics with stakeholders. Apply advanced power quality analysis to ensure reliable network operation, equipment performance and reduced network outages.



Unlock your power system's full potential with smart alarm management that clusters events and alarms for intuitive and powerful filtering, searching and categorization of events and alarms. Graphical timeline analysis tools easily analyze events and alarm sequence, location and potential impact.



Use the most advanced energy visualization and analysis tools to calculate, model, forecast and track your main energy performance indicators (EnPIs).

A man and a woman are standing in a server room. The man, on the left, is wearing a grey sweater over a white collared shirt and a blue lanyard with an ID badge. He is gesturing with his right hand towards the server racks. The woman, on the right, is wearing a white button-down shirt and a blue lanyard with an ID badge. She is holding a tablet computer. They are both looking at the server racks. The server racks are dark blue and have many small lights on them. The background is a long hallway of server racks.

Perfect for your business

Perfect for your business

Choose a segment below to see what Power Monitoring Expert can do for your facility.



Industry



Power is a critical component of your production and can affect your profitability and competitiveness. EcoStruxure Power Monitoring Expert mitigates this risk and increases productivity. Compare energy efficiency across buildings, plants or process lines.

Analyze energy consumption by load type, analyze facility energy performance and ensure energy efficiency compliance. Enable proactive maintenance to ensure safety, and simplify power quality monitoring and analysis to protect your sensitive equipment.

Perfect for your business

Choose a segment below to see what Power Monitoring Expert can do for your facility.



Data Centers



Ensuring 24/7 operations places power network reliability, efficiency and compliance among the most serious issues data centers face today.

Unplanned power outages average over a million dollars in losses plus a compromised reputation. EcoStruxure Power Monitoring Expert provides maximum uptime and full visibility into your power system, helping restore power quickly and safely after a crisis and improve your data center performance without compromising power availability or reliability. Ensure business continuity in any circumstance.

Perfect for your business

Choose a segment below to see what Power Monitoring Expert can do for your facility.



Healthcare



Hospitals are under increasing pressure to do more with less, while also complying with strict regulations and ever-changing technology.

Designed for the always-on power environment in clinical care settings, EcoStruxure Power Monitoring Expert allows tracking of real-time power conditions to help improve efficiency and reliability. It also helps prevent power quality issues to reduce energy use and costs. Embrace a purpose-built power infrastructure that supports your future needs and helps ensure patient safety.

Perfect for your business

Choose a segment below to see what Power Monitoring Expert can do for your facility.



Buildings



Improving the performance of buildings – financial, energy or otherwise – is always top priority. EcoStruxure Power Monitoring Expert helps lower maintenance costs, reduce energy consumption, increase equipment life span and increase occupant comfort and productivity.

It can even predict future energy consumption based on external temperature, occupancy or other variables. Establish energy efficiency benchmarks and make informed decisions that reduce energy consumption to improve your building's energy performance.

Perfect for your business

Choose a segment below to see what Power Monitoring Expert can do for your facility.



Infrastructure



Critical infrastructure networks like air, rail and water transportation are complex. They must operate safely, reliably and efficiently with regulatory compliance.

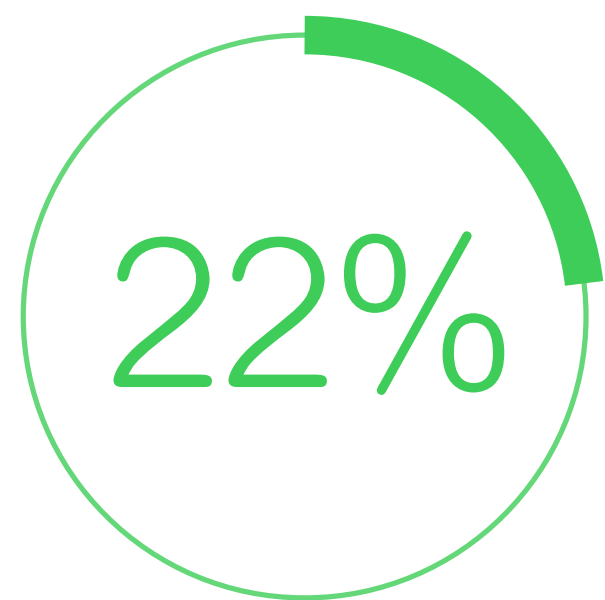
EcoStruxure Power Monitoring Expert software architecture is designed to be easily integrated into existing critical systems, as well as to be open and scalable. Track real-time and historic data, manage proactive maintenance schedules and monitor facilities, assets and power network functionality to ensure maximum uptime and efficiency.

Meet any challenge

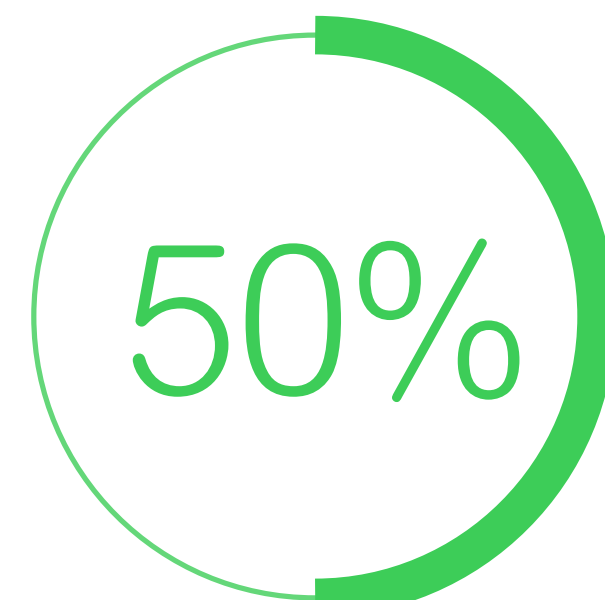
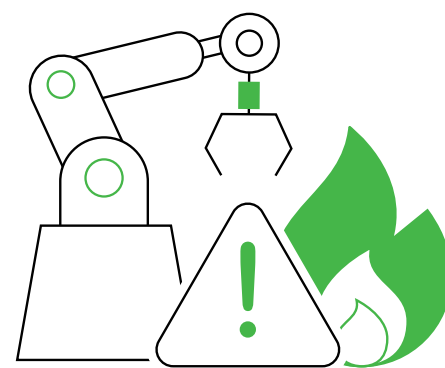
Keep people and assets safer

EcoStruxure Power Monitoring Expert helps you put electrical safety first, reducing hazards and supplying the technology to prioritize safety.

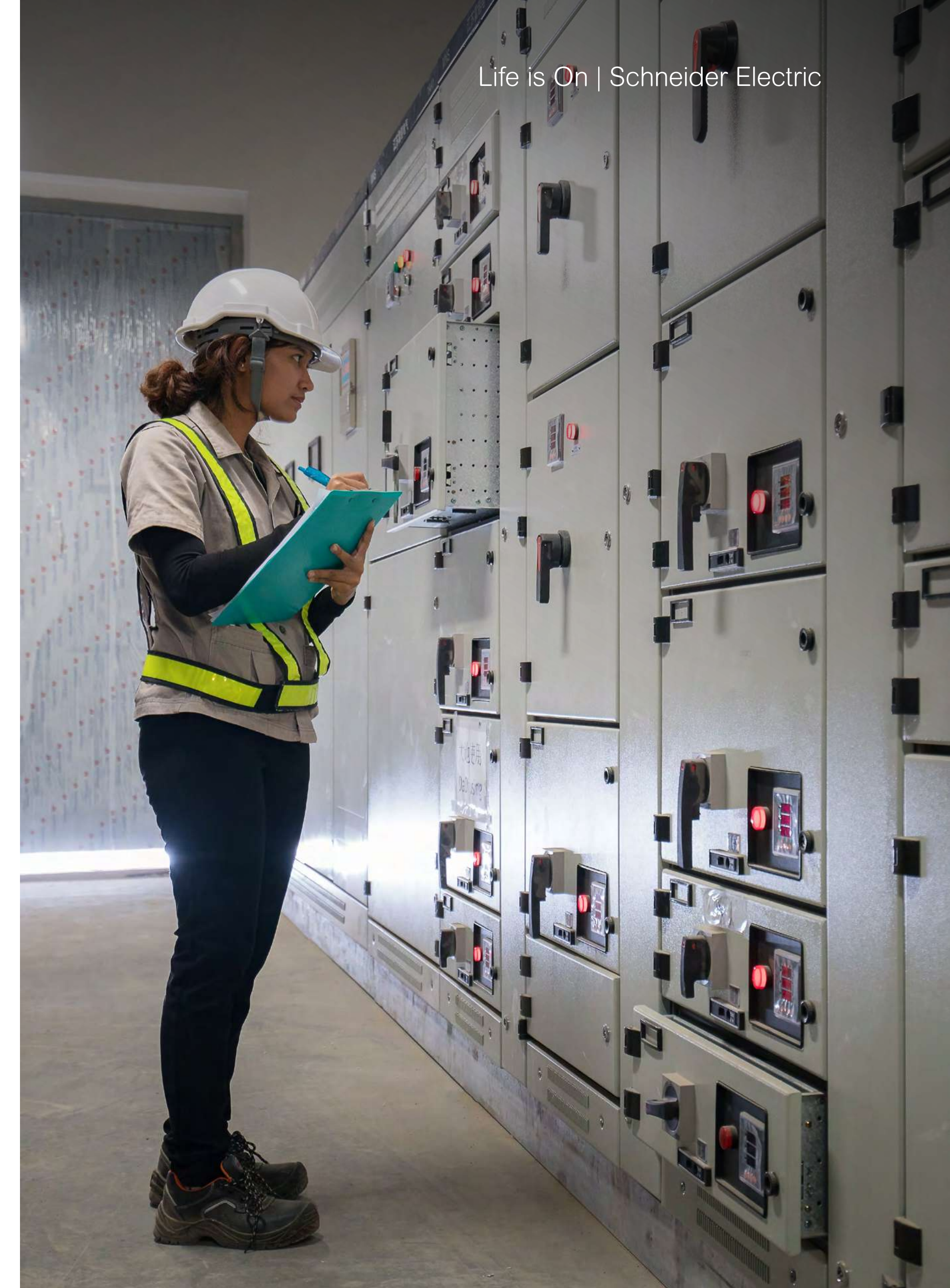
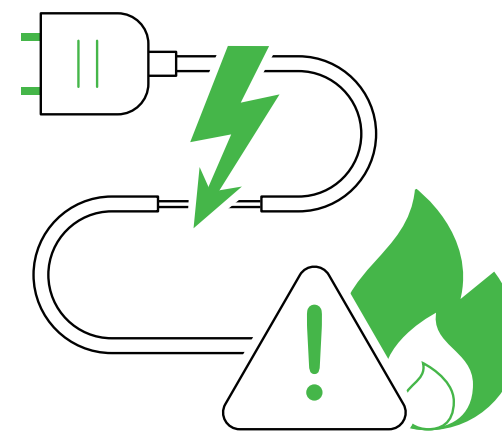
- Monitor breaker protection settings and ensure proper breaker operation and fault isolation to avoid safety hazards
- Monitor arc-flash risk and arc fault alarms
- Detect abnormal conditions, such as rising busbar temperatures, that represent a risk to safety and operations
- Protect patient safety in hospital operating rooms by monitoring and locating circuit insulation faults



of fires in a facility
are due to electrical
equipment failures



of electrocutions occur
within facilities



Optimize business reliability and continuity

EcoStruxure Power Monitoring Expert helps keep the power, and your business, running so you can focus on what matters most: business operations. There is a significant increase of sensitive electronic systems and devices that require guaranteed uptime and have no tolerance for power quality disturbances.

- Understand the cause of events affecting your electrical system, using advanced power forensics, including smart alarm clustering and graphical events timeline
- Identify power event patterns to avoid or mitigate future occurrences
- Monitor protection settings to ensure proper isolation of faults to avoid system-wide power outages
- Analyze the aging of breaker contacts to avoid failures and enable proactive maintenance
- Track system capacity to avoid overloads and make sure backup power systems are able to handle loads in case of an outage



Maximize operational lifecycle efficiency

It's important to identify underperforming electrical assets, process bottlenecks and identify high-performing areas. With EcoStruxure Power Monitoring Expert you can quickly perform formal audits, metrics analyses and cost allocation to help you quickly evaluate operations in your facility.

- Use energy benchmarking to reveal opportunities and baseline comparisons to validate savings
- Use trending and energy modeling to identify abnormal usage of energy and other utilities (WAGES)
- Avoid power factor and peak demand penalties
- Use shadow billing to identify utility bill errors
- Enable participation in demand response programs by tracking consumption patterns and managing loads
- Create accountability by allocating costs to departments or processes
- Analyze equipment performance to support proactive maintenance and extend lifespan
- Reveal unused system capacity to avoid upgrading or overbuilding



Simplify reporting and compliance

A single business can generate millions of compliance data points in a short time. With Power Monitoring Expert you can aggregate this data across multiple processes or facilities and generate compliance reports that meet ever-changing standards and identify KPIs.

- Align with energy efficiency and green building standards (e.g. ISO 50001/2, SEP, LEED, NABERS)
- Track energy performance indicators (EnPI) as per ISO 50006 (e.g. kWh/ton, kg of CO₂/ton, kWh/m³ of water pumped)
- Verify utility/grid service and internal compliance to power quality standards (e.g. EN50160, IEEE519, ITIC)
- In healthcare facilities, ensure regulatory compliance with backup power system testing (e.g. NFPA110 and others)
- Comply with common IT practices (password management, whitelisting, preferred browser) and align with cybersecurity best practices (e.g. IEC 62443 4-1 and 4-2 SL1 Certified)

[Read the whitepaper](#)



Go further with
EcoStruxure

Digital Services

Reduce maintenance costs and maximize system uptime with real-time data on infrastructure performance. Get actionable predictive maintenance information that protects your customers, safeguards your reputation and minimizes financial impact.

- Optimize energy efficiency and reduce energy-related costs
- Reduce downtime from network issues or equipment failure
- Improve predictive maintenance and reduce reactive maintenance issues



Field Services

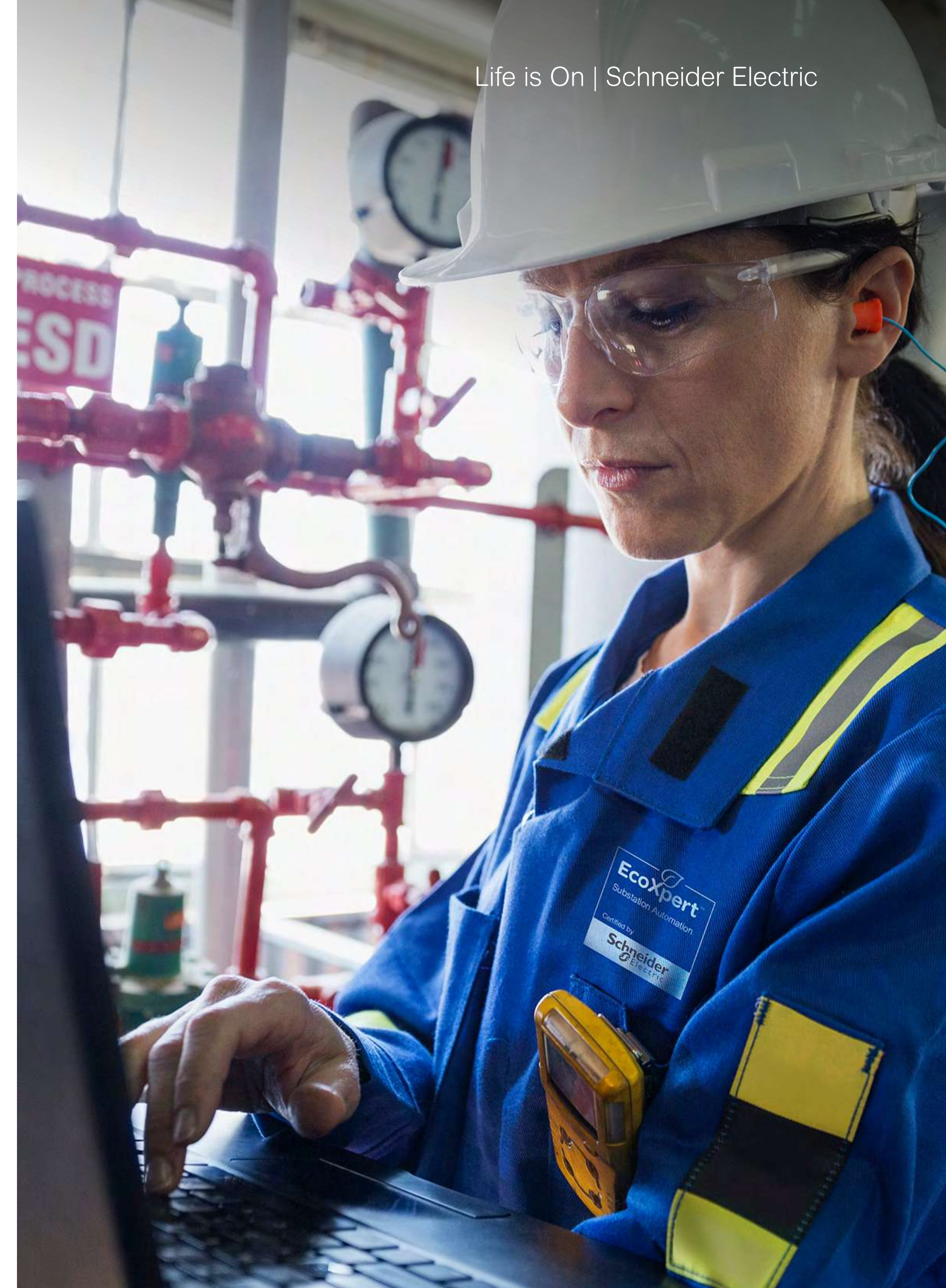
Our Field Services professionals ensure minimized downtime while meeting all safety standards, maximizing your ROI. Utilize our extensive experience in asset management, to increase your business value, power reliability, and quality.

- **Asset reliability** to optimize day-to-day operations and ensure business continuity.
- **Operational efficiency** to maximize equipment life and achieve peak performance.
- **Trusted partnership** so you can rely on our on-site and remote experts to assess and support your installation.



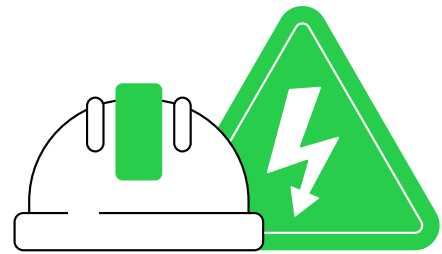
A network of certified innovators

Working with partners we trust is as important to us as it is to our customers. EcoXperts deliver innovative and sustainable solutions, through integrated technology and digitization, to our shared customers. Trained and certified by Schneider Electric, our ecosystem of EcoXpert partners provide best-in-class services and digital solutions that will exceed your expectations.



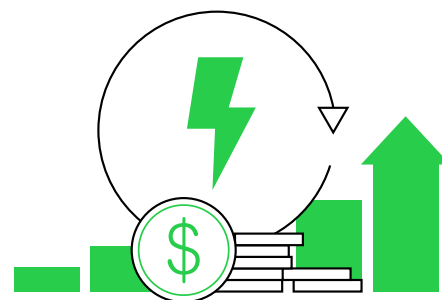
EcoStruxure innovation at every level

EcoStruxure is Schneider Electric's IoT-enabled, plug-and-play, open, interoperable architecture and platform that unites Power and Building Management with connected devices, edge control software and digital services for enhanced productivity and improved resilience.



Safe

Helps ensure safe delivery and operation of clean, reliable power systems



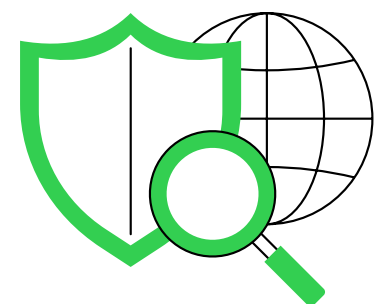
Efficient

Helps ensure safe delivery and operation of clean, reliable power systems



Available

Enhance electrical asset management and avoid electrical downtime.



Cybersecure

Helps ensure resilience to cyber threats that impact business operations.



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To learn more information about Schneider Electric
power management and control, visit

se.com/PME



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