



The power of a SCADA uniquely designed for critical power management

EcoStruxure™ Power SCADA Operation

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# Discover Power SCADA Operation



# Real-time monitoring and control

In large, power-critical facilities, every second of downtime can cause business interruption and financial loss, put lives at risk and damage your organization's reputation. No matter the size or complexity, every part of your electrical system needs to provide reliable power, 24/7. Your team needs continuous visibility into every risk and the ability to react immediately.

EcoStruxure™ Power SCADA Operation (PSO) is engineered to help facilities like data centers, hospitals, industrials, airports and electro-intensive operations maximize uptime. As a key element of EcoStruxure Power, PSO is a SCADA system uniquely designed for large electrical distribution applications.

With rich data integration from connected devices, PSO's unique capabilities provide real-time situational awareness and offer a high performance, cyber-resilient solution for your specialized power networks.

# Master the most complex electrical distribution networks

Manage and control your medium and low voltage networks with a flexible, secure, scalable and redundant platform designed specifically for your needs.

## Flexible, redundant architecture

With extensive communication and data exchange protocol support, connect to hundreds of smart devices, extracting rich data from meters, relays, circuit breakers, PLCs, RTUs and more. Native architectural redundancy gives you the peace of mind that PSO will remain reliable even during a worst-case scenario. Generic SCADA platforms simply do not offer the depth of Power Application capabilities compared to a purpose-built Power SCADA.

## Information and control exactly how you need it

Stay on top of power system status using patented animated one-line diagrams. Our graphical engine allows HMI and mobile views to be completely customized. Receive alarm notifications in real-time, use power events analysis tools to determine cause and effect, then re-establish normal operation using automated or manual control actions.



# Next generation features

## Purpose-built edge platform that adapts to your complex electrical network

- Modern graphics with pan and zoom runtime capabilities to provide an high quality user experience
- Natively compatible with HTML5 compliant web browsers to allow operators to access the system securely anywhere and anytime
- Simplified alarm management with automatic alarm clustering and graphical timeline analysis tools for more intuitive analysis to quickly identify root cause
- Continued 3rd party certification to IEC 62443 global cyber-security standards for peace of mind



Meet any challenge



# Improve Electrical Safety

## Protect people and assets

- Monitor breaker protection settings and ensure proper breaker operation and fault isolation to avoid safety hazards
- Operate breakers remotely to minimize arc-flash risk
- Detect abnormal conditions, such as rising busbar temperatures, that represent a risk to safety and operations
- In hospital operating rooms, protect patient safety during operations by detecting circuit insulation faults



# Maintain reliability

## Maximize business continuity

- Quickly understand the real-time state of your power system
- Use real-time alarm notifications, filtering, sorting and categorization to respond quickly to events
- Perform root cause analysis to trace sequence of events and analyze waveforms, then quickly and safely re-establish normal operation
- Perform fast, automatic fault isolation and power restoration



# Boost efficiency

## Maximize operational efficiency

- Set energy reduction targets and showcase performance to stakeholders via energy kiosk displays
- Track energy generation, distribution and consumption; reveal unused system capacity to avoid upgrading/overbuilding
- Create overall efficiencies like avoiding peak penalties, identifying utility bill errors, and directing costs to assigned areas/processes
- Use shadow billing to identify errors in utility bills
- Create accountability by allocating costs to departments or processes
- Reveal unused system capacity to avoid upgrading or overbuilding
- Showcase energy performance to a broad group of stakeholders via energy kiosk displays
- Support for Active Arc Flash Protection via integration with Schneider Easergy relays to help protect staff and occupants as well as minimize equipment risk



# Ensure compliance

## Simplify reporting, align with standards

- Comply with energy efficiency and green building standards (e.g. ISO50001/2, SEP, LEED, NABERS)
- Verify utility/grid service and internal compliance to power quality standards (e.g. EN50160, IEEE519, ITIC)
- Ensure regulatory compliance with backup power system testing (e.g. NFPA110 and others)
- Comply with common IT practices (password management, whitelisting, two-factor authentication).
- Align with cybersecurity global standards such as IEC 62443 4-1 and 4-2 (SL1 Certified). [Read the white paper](#)



Perfect for your business



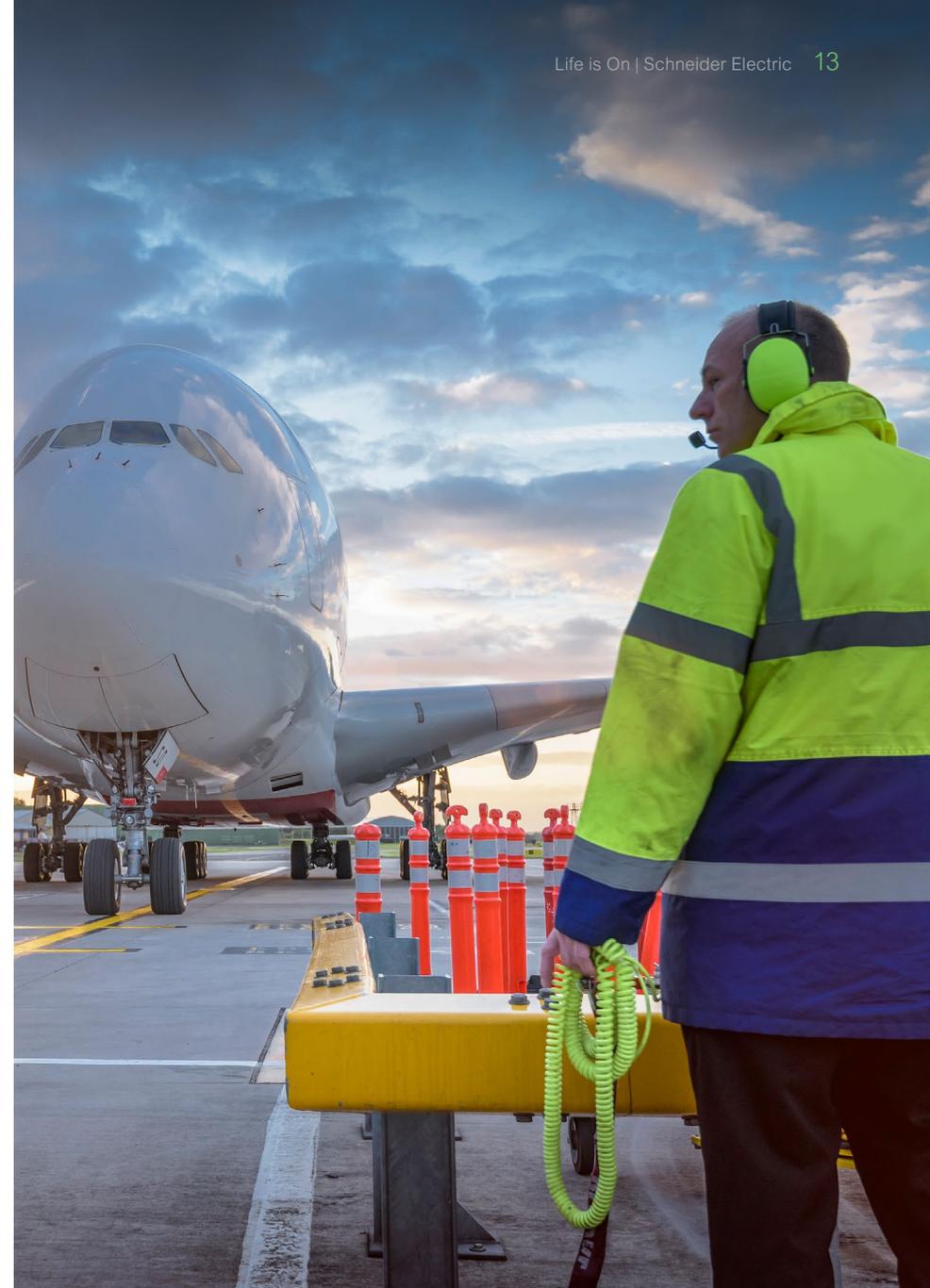
# Perfect for your business

Choose a segment below to see what Power SCADA Operation can do for your facility.

Transportation

Critical infrastructure networks such as air, rail and port transportation are complex. They need the speed and control of a high-performance SCADA system to reduce outages while increasing power system safety and reliability.

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



# Perfect for your business

Choose a segment below to see what Power SCADA Operation can do for your facility.

Industry

Power is a critical component of production that can affect your profitability and competitiveness. EcoStruxure Power SCADA Operation mitigates this risk and increases productivity. With secure, operator-dedicated, multi-user data and control access, its customized user interface can be fully optimized to your operational workflow.

Intuitive commands increase operator efficiency; analyze facility energy performance and ensure energy efficiency compliance. Make faster, smarter decisions with confidence.

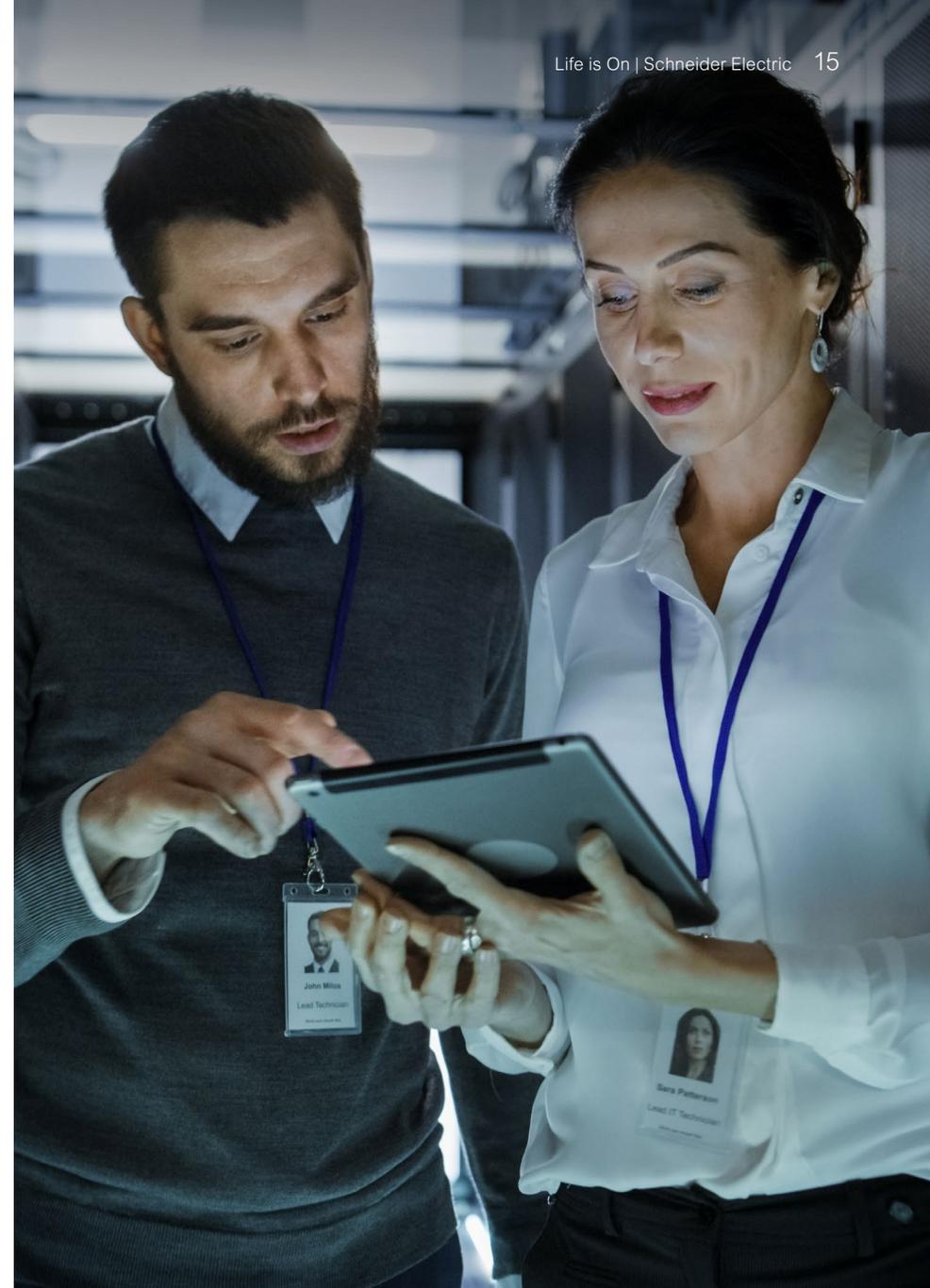


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Data Center

On average, a one-hour power loss event costs a data center \$1 million and a compromised reputation. Plus, energy costs now consume up to 50% of a typical data center's operating budget. EcoStruxure Power SCADA Operation provides real-time management, fast disturbance location, improved operator efficiency, KPI reporting and sophisticated trend and alarm analysis. Discover how a power monitoring and control system can track, monitor and manage the energy in your data center.



# Perfect for your business

Choose a segment below to see what Power SCADA Operation can do for your facility.

Oil & Gas

The Oil & Gas industry is under tremendous pressure to reduce costs, optimize asset performance and improve its environmental footprint while maintaining safety and reliability. Designed for always-on critical power environments, Power SCADA Operation helps reduce downtime caused by electrical outages, unexpected standstills and maintenance.

EcoStruxure Power SCADA Operation helps maximize ROI and minimize environmental impact for greater efficiencies and cost savings.



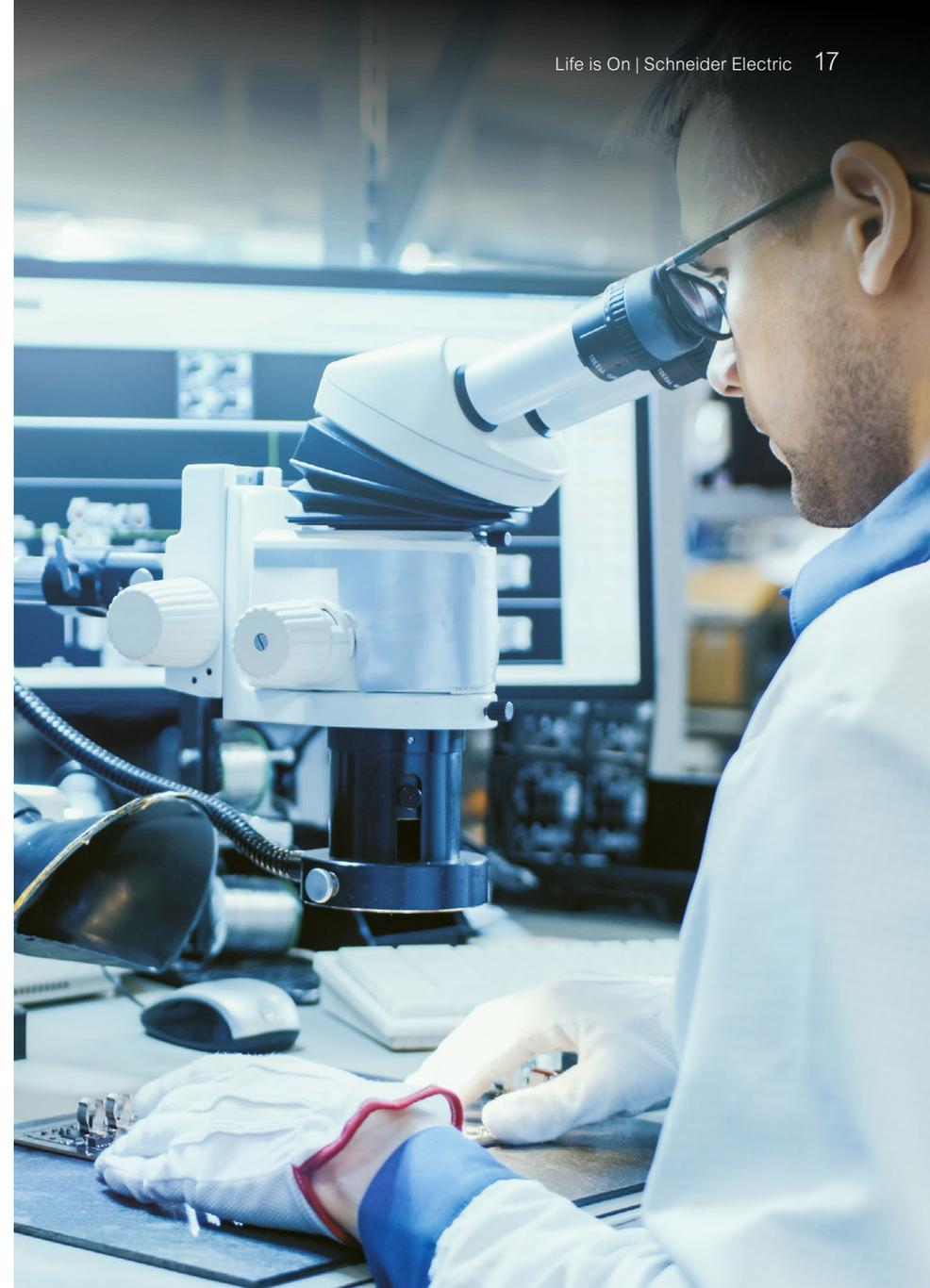
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The same megatrends promising significant growth to the semiconductor industry are also presenting burdensome challenges.

EcoStruxure Power SCADA Operation helps ensure the highest level of power quality can be maintained, reduces unplanned downtime and even automates Semi F47 reports and requirements. Power SCADA Operation helps reduce the financial risk that could threaten operations and reliability.

Semiconductor



# EcoStruxure™ Power



# Future-ready power systems

EcoStruxure Power delivers more safe, reliable and efficient power for peace of mind and significant financial benefits. IoT-enabled future-proof solutions are tailored to meet your specific needs, and simply work. Our digitized LV and MV solutions are powered by innovation at every level enabling enhanced connectivity, real-time operations and smart analytics.

IoT-connected solutions ready to improve every aspect of your electrical distribution system. Take total control with real-time data and smart analytics for predictive maintenance.

Discover more about  
Ecostruxure Power



# Learn more

This document presents general, non-binding information regarding the potential value that digitized power distribution products and solutions can bring to the user. Due to varying user situations and goals, Schneider Electric does not warrant or guarantee that the same or similar results represented in this document can be achieved. Please refer to Schneider Electric product and solution catalogs for actual specifications and performance.

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