

Life Is On

Schneider  
Electric

# EcoStruxure™ Power SCADA Operation

The power of SCADA uniquely  
designed for power management

## Real-time monitoring and control for even the most complex power networks

Every second of downtime causes business interruption and financial loss. Sometimes lives are at risk, not to mention your organization's reputation. No matter its 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 power network:

- Open protocols with OPC Unified Architecture (OPC UA) and IEC-61850 Edition #2, bridging the gap between IT and production domains
- High availability mobile notifications
- Seamless integration with Schneider PLCs to monitor / control electrical and mechanical equipment
- Complies with IEC-62443 international cyber security standards
- Up to 50% faster to deploy than previous version!

Keep people and assets safer

Optimize business reliability  
and continuity

Maximize operational  
lifecycle efficiency

# Power SCADA Operation is designed to master even the most complex power networks

## Ensure safety

- Monitor breaker protection settings, ensure proper operation
- Operate breakers remotely to minimize arc-flash risk
- Detect abnormal conditions that risk safety and operations
- In hospital operating rooms, protect patient safety by detecting insulation faults

## Maintain reliability

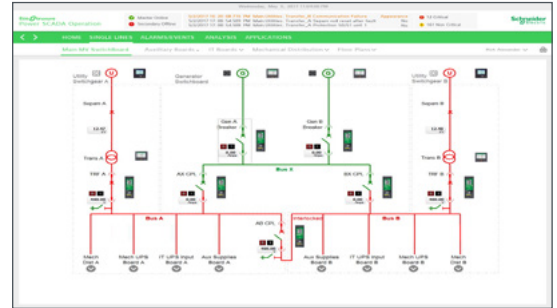
- Quickly view/understand real-time power conditions, respond quickly to events
- Use sequence of events and waveforms to quickly re-establish normal operation
- Help avoid electrical fires by detecting and alarming on abnormal temperature rise in electrical distribution equipment
- Monitor protection settings to ensure proper isolation of faults to avoid outages
- Analyze breaker aging to avoid failures, enable proactive maintenance
- Track system capacity to avoid overloads and ensure backup capabilities

## Boost efficiency

- Set energy reduction targets, adjust for continuous improvements
- Track energy, WAGES generation, distribution, and consumption
- Avoid power factor and peak demand penalties
- Shadow bill to identify issues in utility bills
- Allocating costs to departments or processes
- Reveal unused system capacity to avoid upgrading or overbuilding
- Showcase energy performance to engage stakeholders in efficiency strategies

## Ensure compliance

- Comply with energy efficiency, green building standards (e.g. ISO50001/2, SEP, LEED, NABERS)
- Verify incoming/internal power system PQ compliance to standards (e.g. EN50160, IEEE519, ITIC)
- Ensure compliance with backup power system testing (e.g. NFPA110 and others)
- Comply with common IT practices, align with cybersecurity standards (eg. IEC 62443)



Filter	Reset Filter	Date	Time	Equipment	Description	SNOW	Location
		5/26/2018	09:19:02.030 PM	Main Utilities.Transfer_A	Septom not reset after fault	No	Onboard
		5/26/2018	09:19:02.029 PM	Main Utilities.Transfer_A	Protection 50511 unit 1	No	Onboard
		5/26/2018	09:19:02.029 PM	Main Utilities.Incomer_A	Septom not reset after fault	No	Onboard
		5/26/2018	09:19:02.024 PM	Main Utilities.Incomer_A	Protection 50511 unit 1	No	Onboard

