EcoStruxure Microgrid Advisor

Connect, monitor, and control your facility’s Distributed Energy Resources (DER) to optimize performance

Features

• Provides visibility and control to all of your DER in a single platform
  » Solar power
  » EV charging stations
  » Batteries
  » Wind energy
  » Back-up generators
  » HVAC systems
  » Lighting systems
  » Uninterruptible Power Supply (UPS)
  » Combined Heat and Power (CHP)
  » Utility metering

• Connects seamlessly to on-site DER to automatically forecast and optimize when to consume, produce, or store energy

• Guarantees system reliability and optimization – even if communication with the server is temporarily lost – through 48-hour advanced automatic default operation schedules

Benefits

• Single platform: connect, monitor, and control all DER from a single interface
• Demand control: shift and prioritize loads to avoid utility demand charges
• Storm hardening mode: leverage weather forecasts to reduce downtime
• Demand response: participate in utility programs to generate new revenue streams
• Tariff management: manage price through seasonal, day- and hour-ahead pricing
• Self-consumption: charge batteries with excess solar energy during peak periods
• Cyber secure platform: protect site and related data from external hacks

Distributed renewables and efficient on-site generation are changing the grid faster than ever before.

With EcoStruxure™ Microgrid Advisor, users can now take advantage of autonomous and dynamic control of energy production and consumption.

www.schneider-electric.us/microgrid
Access real-time DER system operation

The cloud-based software platform enables you to monitor your power consumption, production, and energy usage by date. Export the data into an Excel™ file for a deeper analysis. Custom configurations and web services can be developed based upon your specific requirements.

Access and connectivity

Compatible devices and web browsers
- Use your PC, tablet, or smartphone to stay informed of site conditions and usage
- Compatible with Chrome™, Firefox™, and Internet Explorer™ internet browsers

Third-party and DER database connectivity
- Native OpenADR2.0 communication protocol seamlessly exchanges information, including utility information systems and commercial aggregators
- Standard web services API for cloud connectivity
- Communication with DER via
  » Modbus RTU
  » TCP/IP, BACNet MSTP
  » IP and LonWorks
  » HTTP/JSON

Connection to the hardware
- Secured connection through your on-site IT network (LAN) or dedicated ADSL lines
  » Cyber secure testing in white box mode using NIKTO, DIRBUSTER, SQLMAP, and BURP to secure EcoStruxure Microgrid Advisor from session hijacking, XSS, and SQL injection

Provides real-time savings and earnings data (above) as well as CO₂ emissions (below).

To learn more about increasing your facility’s efficiency, resiliency, and sustainability, visit www.schneider-electric.us/microgrid