Energy Control Center

Integrates distributed energy resources into an intelligent, pre-engineered, and configurable power control center to easily optimize resources and maximize facility performance.

Future-Ready Energy Resource Command Epicenter

Today’s buildings can be both producers and consumers of energy.

The innovative Energy Control Center integrates onsite generation and storage resources with existing generators and transfer switches to simplify optimized power management to deliver your savings, sustainability, and resiliency goals.

The Energy Control Center provides a modular, scalable way for you to distribute and control electric power flow between the electric utility grid, distributed energy resources (DERs), and the electrical loads at a site. The enclosed, freestanding structure contains a circuit breaker or fusible overcurrent protection for services rated up to 5000 A with a maximum voltage of 600 Vac. Energy Control Centers are custom-made for use as service entrance equipment or as distribution centers in commercial, institutional, and industrial applications.

The Energy Control Center leverages both AC control and DC power electronics – offering a simplified solution that is modular, repeatable, and scalable.

Flexible

- Modular architecture
- Scalable from 1 to 2 sections for small, simple sites (i.e. 50 kW, 1 DER) to multiple sections for large, complex sites (i.e. 1.5 MW, multiple DERs)
- Adaptability allows for future facility expansion and integration of additional DERs which can be added over time by replacing blank sections with appropriate modules and/or by adding additional vertical sections

Fast

- “Configured to Order” approach simplifies the ordering process, reducing DER controller design, manufacturing, and order time
- Reference designs avoid the need to “start from scratch”
- Factory wired, programmed, and tested to streamline commissioning and significantly reduce labor expenses

Smart

- EcoStruxure Microgrid Advisor maximizes ROI from DERs
- Edge control enables resiliency during outages, including using PV with an anchor resource such as a site’s standby generator
- Advanced intelligent metering provides insight into power quality, usage, and DER production
Energy Control Center components range from touchscreen interfaces and edge controllers running microgrid operations to utility-grade protective relays and revenue-grade metering.

This flexibility means the Energy Control Center can meet customer requirements on even the most complicated applications, involving multiple DERs and sophisticated load management algorithms.

![Example of a Schneider Electric Energy Control Center. The actual size, section count, and configuration will vary depending on each individual site’s specific needs.](image)

### Technical Features

- Compatible with any type of DER
- Sections rated to 5000 A horizontal bus, 3000 A vertical bus
- Single mains to 5000 A
- Six subdivision mains to 4000 A
- Individually mounted feeders to 4000 A
- Suitable for service entrance or distribution
- NEMA Type 1 or Type 3R enclosures
- Front accessible or front and rear accessible
- 98 in. (2489 mm) high with base channels
- Section widths available: 12 in. (305 mm), 24 in. (610 mm), 30 in. (762 mm), 36 in. (914 mm), 42 in. (1067 mm), 48 in. (1219 mm), or 54 in. (1372 mm) wide
- Frame depths available: 24 in. (610 mm), 36 in. (914 mm), 48 in. (1219 mm), 54 in. (1372 mm), or 60 in. (1524 mm)
- Voltage to 600 Vac or 250 Vdc
- Factory assembled
- Hot or cold sequence utility metering
- Customer metering
- Surge protective devices (SPD)

Learn more at www.schneider-electric.us/microgrid