Proven design and application engineering services

Maximize efficiency and optimize uptime with electrical, instrumentation, and control expertise
Our team of professional engineers and technologists is committed to providing innovative solutions, best-in-class service, and exceptional quality.

Whether you have a greenfield, retrofit or upgrade project, Schneider Electric™ offers world-class expertise in electrical and automation systems, helping you optimize deployment efficiency and achieve a high level of operational safety and performance.
High-end quality, service, and value

In every project we undertake, our goal is to consistently surpass expectations – from health and safety compliance to effective project execution and operational support.

Our certified engineers and project managers apply methodologies and processes that meet international standards at every step of the project, from concept to commissioning:

- Business analysis
- Conceptual design
- Front-end engineering design (FEED)
- Detailed engineering
- Construction and project management
- Procurement
- Factory acceptance testing
- Start-up and commissioning
- Quality management, including change order, quality, and document management

Benefit from energy efficiency

As global leaders in energy efficiency practices, we conduct comprehensive audits to assess your existing energy profile and submit recommendations for increasing profitability through energy usage optimization and energy cost reduction. Our expertise includes:

- Plant-wide energy audits
- Energy efficiency studies: tariffs and rate-structure analysis
- Utility contract negotiations
Process control and automation

Thanks to our decades of experience in engineering and commissioning, we help increase deployment efficiency through systematic commissioning and effective troubleshooting. In addition, our wide range of control product expertise helps us deliver proven designs tailored to the most demanding requirements.

Our services include:
- Unit and process control system design
- Emergency shut-down keys
- Control narratives and control system architecture
- Human-machine interface (HMI) design and programming
- Alarm system design
- Control panel design
- Development of control manuals and hazard and operability reviews
- Start-up assistance, operator training, and commissioning
- Design, programming, and implementation of distributed control (DCS) and programmable logic controller (PLC) systems
- Design and implementation of supervisory control and data acquisition (SCADA) systems
- Design and implementation of fire, hydrogen sulphide (H2S), and lower explosive limit (LEL) protection

Power generation

Our specialists in power generation assess and determine the power generation needs of the entire project life cycle.

Our expertise includes:
- Islanded generation design, with provisions for future utility connection
- Load shedding DF/DT studies
- Scheduling of system protection and coordination studies
- Site model development and presentation to power authority
- Cost control
- Equipment specification
- Field commissioning and start-up
- Contractor management

30+ years
Experience in design, implementation, and commissioning of high performance systems
Power systems

Our proven power-system designs help maximize safety, reliability, and maintainability. Key design considerations include the optimization of power cost, amortized cost of the electricity-delivery infrastructure, maintenance costs, and potential cost of adverse events.

Our services span from concept to commissioning and include:

- Single lines, power layout, lighting layouts, and grounding
- E-house detailed design
- Heat tracing
- 3D modeling
- High- and medium-voltage substation with low-voltage distribution
- System studies, including ETAP™, SKM, load flow, short circuit, fugitive emissions, motor-starting calculations, and power quality
- Energy-system reliability studies
- Uninterruptible power supply (UPS) and critical load power requirements
- Plant-wide electrical power management systems

1,000+
Successfully implemented projects worldwide
Make the most of your energy℠