

GE Energy's Power Delivery team has the resources, capabilities, and experience to provide complete power delivery systems for both upgrades and new infrastructure installations. Whether it's an upgrade with new switchgear and protective devices, a standby/critical power system, or the addition of a new primary/secondary substation, the GE team is equipped to respond with a quality structured system—delivered on schedule and within budget.

Consulting Services

GE provides power system consulting and analysis using state-of-the-art simulations and modeling. Our team of power system experts can determine the source of power quality issues, design system additions, and recommend optimum solutions that address customer requirements using proven components and systems.

Structured System Products

With over 300 completed projects and over 50 years of experience, GE has a portfolio of proven engineered systems that can be utilized to meet even the most complex customer needs.

Planning and Execution

Experienced project and site managers working closely with the engineering team and the customer will determine the most effective approach to executing the project. The optimized plan will maximize safety, while minimizing outages and reducing risk.



GE Energy delivers value through:

- **Proven Experience.** Accepting single-source design/builder responsibility. GE has a proven record of on-time completion, while finishing at or below original project budget.
- **Risk Sharing.** Transferring Project Risk—Design and Schedule—from the end user to GE, eliminating costly scope creep and schedule changes.
- **Flexibility.** Providing modular designs for efficient engineering cycle and installation times. Design flexibility is maintained to ensure all technical needs are met.
- **Resource Utilization.** Engaging qualified GE resources allows customer engineers to work on other tasks.
- **High Reliability.** Extending life and improving the reliability of existing electrical systems and protection of critical loads.
- **Long Term Support.** Maintaining the facility after energization, realizing a high level of reliability, while reducing operating costs with a contractual service agreement.



Power Delivery System Offerings

Primary and Secondary Substations

- Application – specific designs for 34.5kV primary voltage and up
- Complete solutions or engineered equipment packages
- Transformers – full line from 1000 kVA to 1000 MVA
- Single transformer to complex double-ended or ring bus

Power Quality

- Power system studies
- Reactive power control
- Synchronous condenser systems
- Harmonic filters, capacitor banks

Standby & Critical Power

- Standby generation
- UPS System design and configuration
- Redundant switching and switchgear
- Integrated master control system
- Fuel delivery and storage systems

Infrastructure Upgrades

- Protective relay upgrade
- Complete switchgear and motor control replacement
- Transformer monitoring and control
- Modular protection and control systems

Other Service Offerings

Field Engineering and Repair Services

- Technical direction
- Start-up and commissioning
- 24/7 emergency field engineering
- Onsite or in-shop repair services for electrical equipment

Contractual Service Agreements

- Maintenance/service contracts
- Parts availability programs
- Training services

Project Financing, if necessary, is available through GE Energy Financial Services



To learn more about this offering, contact your GE Energy sales representative or call 1-888-GE4-Serv or 540-378-3280.