

DESIGN SERVICES



SE Engineering, PC provides power system engineering and electrical design services to support a wide range of needs, including utility, industrial, data center, healthcare, university, and government facilities. Projects can be customized to include everything from basic design consultations to feasibility studies. We even partner with industry-leading electrical manufacturers to provide complete turnkey solutions.

Power Distribution Equipment Modernization and Upgrades

Our engineers will perform an onsite inspection of your electrical equipment, and based on its condition and your present and future power requirements, help you select equipment and upgrade options that will improve reliability and extend the life of your system while minimizing equipment downtime. We will even help facilitate the procurement and installation of new equipment as well as test and commission it.

Distribution System Design

We have the expertise and resources to complete all aspects of substation construction, remodeling, and/or expansion needs for utilities and industrial facilities. Our design experts utilize state of the art software to assure the fit, form and function of our physical designs of the electrical infrastructure.

Active and Passive Filtering Design for Power Quality Improvements

Our engineers will evaluate the harmonic and transient environment in your facility and recommend the appropriate corrective equipment to maintain an optimum power factor.

Backup Power Design and Integration

We can design and work with electrical manufacturers to install the necessary power system equipment to connect both temporary and permanent generators to your facility to minimize electrical downtime in the event of a power outage.

High Resistance Grounding Design and Integration

Our engineers will assess, design, and apply power system conversions to help your facility retain continuous operability during a ground fault and prevent the damage to equipment typically caused by ground faults.

Power System Automation and Transfer Schemes

An important requirement of mission-critical electric power distribution systems is the need for automatic operation. In particular, the rapid and reliable transfer of the system from one power source to another during certain system events is crucial to achieving the reliability goals for such system and the facility it serves. We can work with you to design power system solutions that ensure uninterrupted service to your mission-critical equipment.

Construction Project Management

Our engineers are also experienced project managers, and can manage costs, plan resources, and schedule multiple vendors to deliver a complete turnkey solution.

Commissioning Services

We will verify your equipment has been properly installed and is safe to energize. Proper commissioning ensures the main power path as well as the controls, monitoring and protection systems are functioning to deliver the overall level of reliability stipulated in the system design. Our services also include operator training and operation manuals.

SE Engineering

Contact Us: info@seengr.com