

Engineering Services

Power Systems Engineering

Power quality and power systems services



Electrical Issues Facing Customers Today

How do I connect new equipment to my existing system?

Are my power equipment assets being managed properly?

How can I select the best design for my electrical system?

How can I protect my facility from power problems?

How can I improve productivity by better power management?

How can I economically reduce my energy costs?

SQUARE D Services offers a wide range of engineering services to reduce your power system costs. We assist customers in identifying and implementing aggressive electrical cost and reliability solutions for complex power quality, power management and energy-related issues.

The first step towards effective power management is power system assessment. Our engineering specialists will audit your electrical system (facility) to identify power system problems and make recommendations for improvements. We can also work with you to uncover opportunities to improve reliability, safety and productivity.

Our registered professional engineers, safety-trained and equipped, will listen to your needs, define the problem and develop the solution. Your most attractive economic return is our primary objective. Whether the solution is refurbishment, replacement or recommendations to optimize existing equipment, we provide your complete service solution.

Engineering Solutions to Power System Problems

- **Power System Assessment**
Evaluates the state of your electrical distribution system and prioritizes improvements
- **Power Quality Study**
Solves power system disturbance problems that decrease productivity and reliability
- **Power System Monitoring and Testing**
Performs a variety of power system measurements to improve power management on key circuits
- **Harmonics Evaluation**
Evaluates harmonic concerns on electrical distribution system
- **Remote Power Management**
Remotely collects and analyzes POWERLOGIC® data to solve problems and identify savings opportunities
- **Energy Management Assessment**
Determines cost-effective energy management program to identify low-cost opportunities for immediate payback

Power Systems Engineering

Power System Assessment

- Evaluates the condition of your electrical system
- Improves system reliability and availability
- Enhances electrical safety
- Provides essential documentation of system configuration, condition and maintenance



- Ensures proper operation of new or modified loads
- Prioritizes system improvements

Power Quality Study

- Identifies most cost-effective solution to power quality problems
- Solves process disruptions due to power disturbances
- Reduces economic effects of poor power quality

- Decreases maintenance costs
- Identifies disturbances originating on electric utility system and recommends improvement to reduce number and severity

Power System Monitoring and Testing

- Evaluates power management and loading levels of electrical circuits
- Determines adequacy of circuit to serve sensitive loads
- Power measurements on key circuits, including loading, power factor and voltage and current parameters
- Utilizes portable and permanent monitoring equipment

Harmonics Evaluation

- Assesses harmonic distortion with respect to IEEE 519
- Identifies excessive harmonic loading and poor power factor
- Evaluates harmonic mitigating savings opportunities
- Evaluates economics of power factor correction and harmonic filters
- Optimizes the existing electrical distribution system
- Ensures proper operation of sensitive equipment

Remote Power Management

- Remote data collection and reporting
- Optimizes your POWERLOGIC® monitoring systems
- Reduces power management costs
- Identifies power management savings

All studies are performed by a professional engineer and include a written report of findings and recommendations.

Contact your Square D sales representative for additional information, call 1-888-778-2733, or visit www.SquareD.com.

