

Safe, Reliable, Efficient and Cost-Effective: The Four Pillars of Healthy Energy Systems

Implement a comprehensive energy solution and achieve your performance goals, both today – and in the future!

Pillar 1: Safe

- Safety-Focused System Design
 - Arc Flash Mitigation (Breakers, Fuses, Switches)
 - Electrical Predictive/Preventive Maintenance (EPPM)
 - Maintenance Switches (RELT, ARMS)
 - Levels (Incident Energy)
 - High-Resistance Grounding (Reliability)
- NFPA 70E Standard
 - Arc Flash Hazard Analysis and Equipment Labeling
 - Required Studies (Short Circuit, Protective Device Coordination, and Arc Flash)
- Electrical Safety Training
 - Four-Hour NFPA 70E
 - Eight-Hour NFPA 70E
 - Medium Voltage
- Electrical Safety Plan
 - New Plan Development
 - Existing Plan Updates
- Lock Out/Tag Out Program
 - LO/TO Program Development
 - Machine LO/TO Placards and Tags
- Machine Guarding Review
 - Safe Control Methods
 - Hard Guarding

Pillar 2: Reliable

- Reliability-Focused System Design
- Reliability/Load Studies and Analysis
 - Historical Issues
 - Facility Additions and Changes
- EPPM (Electrical Predictive/Preventive Maintenance)
 - NFPA 70B and NETA
 - NFPA 70E Safety Requirements
 - EPPM Frequency
 - EPPM Plan and Management
 - Infrared (IR) Scanning and Studies

- Transformer Fluid Testing Programs
- Power Quality Analysis
- Power Factor Analysis
- Grounding System Analysis and Design



Pillar 3: Efficient

- Efficiency-Focused System Design
- ASHRAE Energy Audits (Levels 1, 2, and 3)
- Related Efficiency Studies
 - Building Energy Audit Reports
 - Building Infrared Analysis
 - Air Compressor System Analysis
 - Machine/Line Analysis
 - Electrical Demand Control
 - Alternate Energy Sources for Heat and Cooling

Pillar 4: Cost-Effective

- Value-Focused System Design
- Utility Bill Analysis (Distribution, Transmission, and Generation)
 - Rate Analysis
 - Power Factor System Application and Repair
- Harmonic Mitigation
- CHP (Combined Heat and Power)
 - Alternate Source for Heating and Cooling Energy
 - Emergency and Backup Power
- Evaluation and Integration of Other Energy Sources