Safe, Reliable, Efficient and Cost-Effective: The Four Pillars of Sound 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

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
  - Wind
  - Solar