

Professional Services

Your Single-Source Partner for Engineered Power Precision.

Overview

Mission Critical Group (MCG) delivers comprehensive Professional Services that accelerate time-to-power through expert engineering, design assist, system analysis, and technical validation. As a vertically integrated, U.S.-based power systems provider, MCG unifies design, engineering, equipment specification, and system testing under one trusted partner, reducing risk, eliminating vendor complexity, and ensuring seamless interoperability across mission critical environments.

Backed by extensive U.S. manufacturing and nationwide field expertise, MCG ensures every power system is engineered for performance, reliability, and long-term operational continuity.

Services

Engineering & Design

- Electrical systems engineering and power distribution design
- Design assist and constructability support
- Engineered-to-order and configured-to-order product specification
- Behind-the-meter power system design
- Modular and e-house integration engineering
- Short circuit, protection coordination, and load flow studies
- Arc-flash hazard analysis and compliance studies
- Power quality analysis and system modeling
- Feasibility studies and capacity planning

Technical Validation & Testing

- Electrical system testing and validation
- Pre-functional and functional performance testing
- Factory acceptance test (FAT) support
- Integrated system testing (IST) support
- Commissioning coordination and documentation review
- System interoperability validation
- Risk mitigation and failure-mode analysis
- Compliance verification and reporting



Why MCG

- **Single-Source Solution:** One partner for planning, equipment, installation, and ongoing service
- **OEM Independence:** Service and repairs without factory-schedule delays
- **National Coverage:** Experienced field technicians deployed across the U.S.
- **Proven Reliability:** Trusted in data centers, utilities, heavy industrial, healthcare, and other mission critical environments

Powering What's Next

MCG delivers end-to-end support for the entire power lifecycle — from expert engineering and controls integration to startup, maintenance, and modernization — all backed by a dedicated PMO that ensures every project is executed with precision, speed, and total accountability.



Scan the QR code or visit us at missioncriticalgroup.com

