



DATA CENTERS

RMS Energy is a full service, NETA accredited engineering and field services company with capabilities up to and including 765kV, supporting the needs of power providers and power consumers across the industry. At RMS Energy, we support data centers across the full electrical lifecycle—from early-stage planning and engineering through construction, commissioning, ongoing maintenance, and emergency response. Our NETA-certified teams deliver industry-leading electrical testing, field commissioning, transformer maintenance and repair, and system analysis to ensure safe, reliable, and resilient operations.

With expertise spanning power system studies, renewable and backup power integration, regulatory compliance, and mission-critical field services, RMS Energy provides end-to-end solutions designed to maximize uptime, maintain asset health, and support the rapidly evolving demands of hyperscale and enterprise data centers.



ELECTRICAL TESTING & COMMISSIONING FOR MISSION CRITICAL RELIABILITY

TRANSFORMER, SWITCHGEAR & BUS INFRASTRUCTURE SUPPORT

BACKUP POWER, UPS, & ENERGY STORAGE INTEGRATION

ADVANCED POWER SYSTEM ENGINEERING & ARC FLASH COMPLIANCE

LIFECYCLE MAINTENANCE, FIELD SERVICES & PROGRAM SUPPORT

OUR SERVICES

TAILORED SOLUTIONS EMPOWERING SEAMLESS DATA CENTER INTEGRATION

Data Center Challenges & RMS Energy Solutions

Comprehensive Mission-Critical Support Across the Full Electric Lifecycle

POWER-INFRASTRUCTURE CHALLENGES

High-demand, high-reliability electrical systems requiring flawless performance

RMS Energy Solutions

- NETA-Certified Acceptance & Maintenance Testing for switchgear, breakers, transformers, relays, and protective systems
- Field services, repairs, retrofits, and upgrades for GCBs, switchgear, bus runs, and substations
- Transformer installation, dress & test, oil processing, condition assessments, and lifecycle maintenance
- HV substation apparatus acceptance and utility-facing system validation.

COMMISSIONING & INTEGRATION COMPLEXITIES

Ensuring all systems function as designed across redundancy, failover, and backup schemes

RMS Energy Solutions

- Comprehensive Commissioning: Installation inspections, functional testing, Protection & Control validation, SCADA, and integrated systems testing
- Backup generator, UPS, and energy storage (ESS/ BESS) integration support
- Transition solutions between grid-connected, islanded, UPS, and backup modes
- NFPA 70B compliance, NERC compliance, and utility interconnection coordination

OPERATIONAL & RELIABILITY OBSTACLES

Uptime pressures, aging infrastructure, and evolving power architectures

RMS Energy Solutions

- Preventive, predictive, and corrective maintenance programs tailored to Tier II-IV data center requirements
- Rapid-response emergency support for outages, equipment failures, and unexpected events
- Reliability enhancement strategies using STATCOM, BESS, filtering, and voltage regulation solutions
- Asset health assessments for transformers, switchgear, bus duct, and distribution systems

PROJECT EXECUTION, CONSTRUCTION & PROGRAM MANAGEMENT NEEDS

Large-scale builds requiring coordination, safety, logistics, and owner advocacy

RMS Energy Solutions

- Program management, owner's representative support, construction oversight, and scheduling
- Material management, procurement logistics, and document control
- Field Safety Representatives, Environmental Monitors, and QA/QC support
- Constructability review services for transmission, distribution, substation, battery storage, and underground infrastructure

SYSTEM MODELING, ENGINEERING & SAFETY REQUIREMENTS

Advanced studies and engineering needed to ensure safe, accurate, and optimized operation

RMS Energy Solutions

- Power system studies: Short circuit, coordination, arc flash, load flow, grounding, and harmonics
- Dynamic modeling and EMT studies for resilience, stability, and power quality
- Power distribution design, SLD development, microgrid/islanded operation studies
- Protection & Control design, relay settings, and equipment model validation

WHY CHOOSE RMS ENERGY?



EXPERTISE



CUSTOMER FOCUS



INNOVATION



RELIABILITY



SAFETY



Connect with us to learn more about how we can support your power system needs and help you achieve your energy goals.



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