

Our Services



Specification Writing Services

Accurate technical specs are critical for project success. We develop and review specifications for substation equipment transformers, high-voltage circuit breakers, disconnect switches and capacitor banks. Our documents cover design requirements, performance criteria, testing, and compliance with IEC/ANSI standards. This minimizes design ambiguity and helps manufacturers deliver equipment that fits your system's needs.

Key Services:

- **Comprehensive Coverage:** Specifications include electrical, mechanical, and testing criteria. We ensure all critical parameters are defined.
- **Industry Standards:** We incorporate relevant international standards (IEC, IEEE, IEEE 122, ANSI C57, etc.) so the equipment meets regulatory and safety requirements.
- **Clarity & Consistency:** Clear language and structured format reduce misinterpretation. We update specs with lessons learned from global projects to avoid common pitfalls.
- **Bid Readiness:** Well-crafted specs enable apples-to-apples supplier bids, helping you compare equipment on performance rather than vague terms.

Equipment Procurement Services

We guide EPCs and developers through every step of the procurement process. Our services include leveraging our established relationships with reputable manufacturers, managing tendering and bid evaluation, and coordinating purchase orders. Because we operate independently, our recommendations align solely with your project's best interests, including selecting the most reliable and cost-effective options across Tier 1, Tier 2, and Tier 3 manufacturers.

Key Services:

- **Global Vendor Network:** Tap into our vetted network of certified Tier 1, Tier 2, and Tier 3 suppliers across North America, Latin America, Europe, and Asia. We help shortlist manufacturers based on quality, lead times, budget, and equipment class.
- **Bid Management:** We prepare RFQs/RFPs from your specifications, collect and analyze bids, and ensure compliance with technical and contractual requirements.
- **Cost Optimization:** Leverage our market knowledge to negotiate competitive pricing without compromising on quality. We use group purchasing power and cost comparisons to your advantage.
- **Risk Mitigation:** Acting as your procurement agent allows us to ensure equipment quality, maintain cost control, and reduce procurement-related risks throughout the project.

Design & Drawing Review Services

Design and drawing reviews are essential to ensure that substation equipment is built exactly to your technical and contractual requirements. We review manufacturer drawings for transformers, high-voltage circuit breakers, and capacitor banks during the production process. Our review covers design accuracy, interface compatibility, protection settings, CT/PT ratios, wiring diagrams, and compliance with IEC/IEEE standards. Early detection of deviations prevents redesigns, delays, and costly field corrections.

Key Services:

- **Comprehensive Drawing Review:** We assess all key drawings—including general arrangement (GA), electrical schematics, wiring diagrams, terminal block diagrams, CT/PT data sheets, nameplates, and accessory layouts—to ensure every detail aligns with your specification.
- **Standards & Specification Compliance:** All reviews are performed against your project specifications and applicable standards (IEC, IEEE, ANSI.), ensuring equipment delivered matches both regulatory and project requirements.
- **Interface & Integration Verification:** We verify mechanical and electrical interfaces, ensuring correct clearances, bushing orientations, cable entry locations, relay wiring compatibility, and protection scheme alignment across the substation.
- **Early Issue Identification:** We catch discrepancies during the manufacturing stages such as incorrect CT ratios, wiring errors, wrong materials, or layout conflicts—reducing redesign costs, manufacturing delays, and site installation issues.
- **Clear, Actionable Comments:** We provide structured comments with corrective actions, priorities, and compliance notes. This keeps communication with manufacturers clear and improves turnaround time for drawing revisions.

FAT Coordination Services

Before equipment ships, we coordinate Factory Acceptance Tests (FAT) to verify functionality against specifications. We work with manufacturers to create a FAT plan covering all required tests (electrical, mechanical, safety). Our engineers represent the client on-site (or remotely) to witness tests, log results, and approve shipment only when satisfied.

Key services:

- **Quality Gatekeeping:** FAT is the last chance to catch issues before delivery. We confirm that transformers, breakers, and capacitor banks meet your project's design requirements. (As one industry guide notes, FAT verifies that "the product meets predefined criteria for functionality".)
- **Client Involvement:** We involve your technical team (on-site or virtually) so everyone sees firsthand that equipment passes required tests. This transparency "builds customer confidence" in the product's quality.
- **Documentation:** Detailed FAT reports are compiled and delivered to you, documenting all results, punch lists, and corrective actions. This creates an audit trail and formal acceptance for your records.
- **Standards Compliance:** We ensure that FAT protocols follow industry best practices. If needed, we can engage third-party inspection agencies for additional assurance.