



# INTEGRATED SOLUTIONS FOR SUBSTATIONS

**High Quality Packing and Design Services to Ensure the Delivery of Safe and Reliable Power**

Tradition. Technology. Innovation.

## **PACKAGING AND DESIGN SERVICES FOR HIGH-VOLTAGE SUBSTATIONS, SWITCHING STATIONS, TRANSMISSION AND DISTRIBUTION FACILITIES FOR UTILITY, WIND, SOLAR, HYDRO, COMMERCIAL AND INDUSTRIAL SYSTEMS APPLICATIONS.**

IEM Power Systems is a premier supplier of electrical equipment and substation packages. We offer high quality individual components or a whole package incorporating all key equipment required for a complete, integrated substation solution at competitive prices. Our team has a thorough knowledge of substation design, as well as wealth of experience in material procurement, project management, and logistics of electrical equipment.

Our design services for high-voltage substations, switching stations, transmission and distribution facilities for utility, wind, solar, hydro, commercial and industrial systems applications. We pride ourselves in providing the highest level of service available. As a member of your team, our goal is to ensure that provision of our services and equipment leads to a successful project completion.

### **SUBSTATION PACKAGES**

IEM Power Systems strengths include the ability to engineer innovative solutions to facilitate our client's needs. Our flexibility to manage changing project requirements combined with the ability to deliver the highest quality solutions in the market, make working with power more safe and reliable.

We take a personal approach to project development and management. Through close collaboration, we will understand your requirements and ensure the successful delivery of your substation package.

### **COMPLETE PROJECT SERVICE I:**

- Preparation of a comprehensive BOM
- Value-Engineered Alternative Solutions
- IEM Power Systems Manufactured Equipment
- Efficient Equipment Procurement
- Periodic Scheduling Updates
- Management of Equipment Logistics
- Project Close-Out Documentation



## INTEGRATED CONTROL BUILDINGS

IEM Power Systems offers a rugged and durable pre-fabricated control building, integrated with the appropriate equipment for your specific application. These buildings are constructed with a structural base designed for either pier or pad mounting. They are engineered to meet your requirements for loading, environmental conditions, and features.

Our control buildings are assembled, wired, and tested prior to shipment. Depending on size, these buildings will ship as a single unit, eliminating the need for field assembly or interconnections. For larger buildings, multiple-section units will be required. Factory-trained professionals will assist with the site off-loading and re-connection of the shipping units.

## PROTECTION AND CONTROL PANELS

Power Systems will custom design your relay and control panels to meet the individual requirements of your project. From rack mounted equipment panels to switchboards and custom cabinet enclosures, we can meet your needs. Our panels are expertly wired to the engineering design requirements and verified through our rigorous Quality Assurance Program. Our equipment is examined during a series of inspections and is systematically tested to ensure proper, safe operation. On-site commissioning services are available to perform field acceptance testing, all necessary set-up and device settings programming.

## SWITCHGEAR PRODUCT SCOPE

IEM switchgear offering is the highest of quality in the industry and offers the most flexible solutions. Manufactured in Fremont, CA, IEM's switchgear product scope.

- Panelboards up to 600Vac, 250Vdc, 600A
- Switchboards up to 600V, 12,000A
- Low-voltage Switchgear up to 600V, 5,000A
- Medium-Voltage Metal-Clad Switchgear up to 38kV
- Unit Substations
- Paralleling Switchgear and Control Systems
- Arc-Resistant, Front Accessible Metal-Clad Switchgear

Innovative thinking and a flexible manufacturing process enables IEM to meet some of the most challenging electrical distribution challenges in the industry today. IEM's unique manufacturing process moves the development of each project's production phases along in parallel allowing for possible changes, promotes efficient integration and shorter cycle times. This flexibility enables IEM to handle projects that call for standard equipment and those that present unique requirements or a challenging time frame.



# IEM is the largest independent full-line manufacturer of electrical distribution equipment in North America.

## DESIGN AND ENGINEERING SERVICES

We can provide design and engineering support for substations, switchyards, and transmission lines through 500kV.

- Initial Conceptual Design
- Project Scope of Work
- Preliminary and Detailed Final Design
- Expected Project Schedule
- Equipment Specifications
- System Electrical Studies

IEM Power Systems is committed to being a valued member of your Team, providing equipment supply and logistics management solutions for your substation needs.

### Industrial Electric Mfg.™ (IEM)

Headquartered in Fremont, CA, IEM is the largest independent full-line manufacturer of electrical distribution and power quality equipment in the U.S. For over half a century, IEM has delivered customer-specific solutions to meet the ever changing power requirements of growth industries in North America. At IEM, tradition and technology still drive innovation. An experienced engineering staff and one of the most flexible design and manufacturing systems in the industry set IEM apart from standard product manufacturers.



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