

Engineered Solutions

Engineered Equipment Designed For

- **Data Centers**
- **Mission Critical Facilities**
- **Alternative Energy**
- **Utility Applications**
- **Petro/Chemical**
- **Commercial/Industrial**
- **Construction**
- **Oil and Gas Exploration**



LINE  **POWER**

Data Centers/Mission Critical



*Twin Metal-Enclosed 38 kV Switchgear with Front and Rear Aisles
6-Bay and 5-Bay Engineered Switchgear for Global Financial Leader*



*Metal-Enclosed 38 kV Switchgear
7-Bay Engineered Switchgear for Global Financial Leader*

Engineered Equipment



Indoor 5 kV Generator Switchgear For Water Shed Control

Trailer-Mounted Engineered Substations



*Dual-Rated 12.47 and 24.9 kV
Portable Substation*



*Dual Output 5 kV
Trailer-Mounted Portable Recloser*



300 KW Portable Generator



Portable Pad-Mounted Switchgear



Utility Emergency Power Portable Substation

Trailer-Mounted Engineered Substations



6-Bay Engineered Switchgear for University Expansion Projects



Totally-Enclosed Portable Substation with Heavy Insulation for Extreme Cold Environment



2500 kVA Indoor Substation Designed to be Mounted in a Box Trailer

Skid-Mounted Engineered Substations



1000 kVA Portable Substation with Walk-In Aisle and Built-In HVAC Heat Pump



500 kVA Portable Substation with Winch-Operated Fold-Down Tower



Engineered Substation with bullet-resistant exterior skin for rural location.



High Voltage Switchgear



Remote Substation



Conveyor Belt Starter



Engineered Substation

Electro-Mechanical Corporation Overview

Line Power is a division of Electro-Mechanical Corporation, a privately held, American-owned company founded in 1958. It is headquartered in Bristol, Virginia (USA) and for more than 60 years has manufactured a wide variety of products used in the generation, transmission, distribution and control of electricity. These products, along with various electrical equipment repair and maintenance services, are used by a diverse mix of Energy (coal, oil and gas), Electric Utility and Industrial customers worldwide.

Electro-Mechanical Corporation has earned a “customer oriented” reputation by keeping its focus on providing the best value to its customers through quality products and services. With six manufacturing companies and two repair and service companies, Electro-Mechanical Corporation has over 650,000 square feet of modern manufacturing facilities, located in Virginia and Mexico.

The Electro-Mechanical Corporation consists of:

Federal Pacific - Dry-type transformers from .050 KVA through 10,000 KVA single and three phase, up to 25 kV, 110 kV BIL with UL® approval through 15 kV; Vacuum pressure impregnation and vacuum pressure encapsulation. primary metering and wall-mounted pad-mounted and metal-enclosed switchgear Medium voltage switchgear including air-insulated live-front, dead-front, SCADA-controlled, automatic transfer,. ISO9001:2015 Registered.

Line Power Manufacturing Corporation - Engineered electrical distribution and control apparatus including low and medium voltage metal-enclosed switchgear, power control centers, motor controls, and substations. Electrical power distribution systems and components used in mining. ISO 9001:2015 Registered.

MAFESA - Electro-Mechanical Corporation’s manufacturing facility in Mexico for stock low-voltage transformers.

Engineered Solutions -The Engineered Solutions Group specializes in the innovative design and creation of engineered medium voltage switchgear for Data Center, Solar Energy and other alternative energy, mission-critical projects worldwide.

Machinery Components Division - Manufactures prototype and machined component products.

Electric Motor Repair & Sales Company - Electric motor and apparatus repair and new equipment sales. Equipment for the Electric Motor Repair and Transformer Manufacturing Industries including winding machines, coil spreaders, dynamometers and transformer core cutting machines.

Line Power Parts & Rebuild - Complete electrical equipment remanufacturing and onsite electrical equipment service. The parts service department provides replacement components manufactured by Electrical Group companies as well as commonly used OEM parts.



Federal Pacific



Line Power Manufacturing Corporation

Federal Pacific Dry-Type Transformer Products

Industrial Control - 50 through 750 VA

Encapsulated 600 Volt Class

Three-Phase 3 through 15 kVA • Buck-Boost 50 VA through 5 kVA • Single-Phase 50 VA through 25 kVA

Ventilated 600 Volt Class

Single-Phase 15 through 167 kVA • Three-Phase 15 through 1000 kVA • K-Factor Rated
Three-Phase 15 through 500 kVA • Motor Drive Isolation Three-Phase 7.5 through 750 kVA

High Voltage General Purpose

Three-Phase 2.4 and 5 kV Class, 15 through 1500 kVA • Three-Phase 8.6 and 15 kV Class, 112.5 through 1500 kVA

Pad-Mounted

Single- and Three-Phase 2.4, 5 and 15 kV Class, 112.5 through 2500 kVA

Unit Substation and High Voltage Power

Three-Phase 2.4 through 25 kV Class, 112.5 through 10000 kVA High Voltage General Purpose
Three-Phase 2.4 and 5 kV Class, 15 through 1500 kVA • Three-Phase 8.6 and 15 kV Class, 112.5 through 1500 kVA

Vacuum Pressure Impregnated (VPI) and Vacuum Pressure Encapsulation (VPE)

600 Volt Class through 25 kV Class, 112.5 through 10000 kVA

Specialty Transformers

600 Volt Class through 25 kV Class, 50 VA through 10000 kVA

ABS Certified Marine Duty Transformers for Marine, Petro-Chem and Offshore Applications



Federal Pacific Switchgear Products

Live-Front Pad-Mounted Switchgear - 15 kV • 27 kV

Manual, Automatic Transfer, Remote Supervisory Controlled Models

Live-Front/Dead-Front Pad-Mounted Switchgear - 15 kV • 27 kV

Manual, Automatic Transfer, Remote Supervisory Controlled Models

Dead-Front Pad-Mounted Switchgear - 15 kV • 27 kV

Manual, Automatic Transfer, Remote Supervisory Controlled Models

Pad-Mounted Capacitor Banks

Primary Metering Dead-Front Pad-Mounts - 15 kV • 27 kV • 38 kV

Fused Sectionalizer Dead-Front Pad-Mounts - 15 kV • 27 kV

Metal-Enclosed Switchgear - 5 to 38 kV

Manual, Automatic Source Transfer, Remote-Supervisory Control, Shunt Trip

Wall-Mounted Equipment - 15 kV • 27 kV

Wall-Mounted Switch Cabinets, Wall-Mounted Fuse Cabinets

Unit Substations - 5 to 38 kV

Vacuum Reclosers - 15 kV

Engineered Products - 5 to 121 kV

Portable Substations - Trailer, Skid and Track Mounted

Components

Micro-Processor and Stored-Energy Switch Operators, SCADA-Controlled Switch Operators

