

## ELECTRICAL ENGINEERING SERVICES

Matrix PDM Engineering designs and commissions industrial power systems utilizing industry standard solutions developed through more than three decades of experience. With proven solutions, our team has provided services for new facilities, OEM equipment, expansions and replacement of existing, outdated equipment.

Our experts have successfully designed electrical power systems throughout the world.

### A HIGHER STANDARD IN ENGINEERING.

matrixpdm.com | 866 367 6879

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# **RELIABLE, QUALITY, AND SAFE ELECTRICAL SYSTEM SOLUTIONS**

Matrix PDM has decades of experience providing analysis, study, and design for complete new power distribution systems and electrical system layouts or performing surveys and studies of existing systems and equipment for additions. Our experts have designed medium and low voltage systems to meet NFPA, NEC and CEC standards.

Additionally, Matrix PDM has provided power system modeling and studies including arc flash analysis, short circuit analysis, protection, and coordination studies, harmonic analysis, ground/STRP, and motor starting/acceleration studies. By working collaboratively with our clients and listening to their unique needs, we provide solutions that improve project efficiency, quality, and reliability.

### Industries

- Dry bulk material handling
- Liquid bulk material handling
- Terminals
- Natural gas processing
- Natural gas compressor stations and units
- Process and chemical plants
- Flour milling
- Coal-fired power plants
- Scrubbing and pollution control systems
- Warehouse distribution
- Food and coffee



#### Design services

- Voltages to 69 KV
- Utility service coordination
- Main substation design and specification
- Power factor correction
- Protective relaying
- Fault current analysis and system coordination studies
- Overhead and underground distribution
- Primary and secondary selective distribution schemes
- Large induction and synchronous motor control
- Motor control center and drive system design
- Secondary unit substations
- Low voltage distribution switchgear and MCCs
- AC and DC drives
- Lightning protection
- Electrical equipment room layouts
- · Solid and resistance grounded systems
- Cable reel, festoon, busbar, and mobile electrification
- Lighting system modeling, design, and calculation
- UPS systems and back-up power generation design
- Back up generators

For more information please contact **866 367 6879** 

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