Electrical Engineering

Our Electrical Engineers and Designers Understand all Facets of a Project from the Switchgear to the Motors and Building Services. We Work Closely with the Suppliers to get the Right Equipment for the Right Application, and We Follow-Through with Field Commissioning.

Typical Focus

- Any point in a process or associated service that requires power

Services

- Motor lists and single lines
- Load studies
- Short circuit analysis
- Circuit protection and coordination studies
- Grounding plans
- AC schematics
- Site electrical plans
- Electrical area classification maps
- Power factor correction studies
- Equipment sizing
- MCC room plan & sections
- Electrical equipment specifications
- Lighting plans
- Power and control plans
- Cable tray plans
- Lighting schedules
- Cable and conduit schedules
- Arc flash analysis
- Heat trace system design

Tools

- AutoCAD Electrical
- ETAP– Power System Analysis Software
- In-House sizing tools

VENTURE™

Pittsburgh, Pennsylvania
Phone: (412) 231-5890
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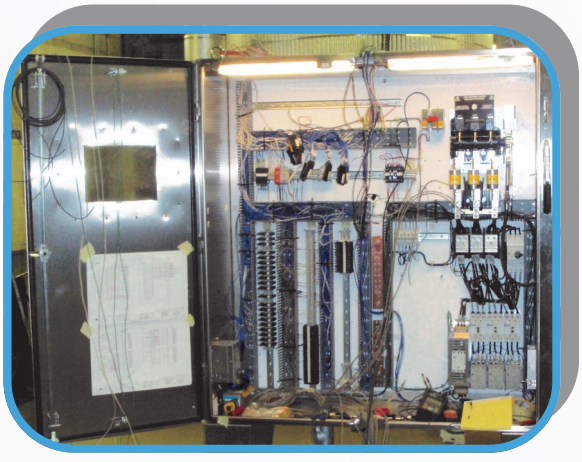
Equipment and Systems Specified

- Switchgear
- Transformers
- MCCs
- Panels
- Variable speed drives
- Motors
- Lighting
- Cable and conduit



Example Projects

- Complete electrical design package for a biodiesel plant
- Electrical plans for landfill gas processing skids
- Consultation on NEC compliance