



We provide comprehensive electrical solutions & services tailored for the oil & gas industry, including custom transformers, industrial motors, & switchgear.

## Transformers

### Ratings

- Three phase 75 - 7,500 kVA
- 208-34,500 V primary & secondary
- 50 & 60 Hz | custom Hz ranges
- 45 - 75°C rise

### Design Features

- Welded tank design with accessible lid
  - Externally-operated no-load tap changer
  - Drain valve with sampler
  - Pressure relief device (auto resetting)
  - Other options available upon request
  - Variety of gauges and/or monitors

### Certification

- UL & cUL certified
- IEEE C57.12.00, C57.12.90, C57.12.34
- Department of Energy 10 CFR 431.193

### Field Services

- Relocation
- Testing
  - Winding & insulation resistance
  - Transformer turns ratio
- Services
  - Internal inspections & repairs
  - Regasketing

- Bushing replacement
- Tap changer service
- Radiator & cooler service
- Gauge replacement
- Painting

- Oil Processing
  - Hot oil degasification
  - Oil dehydration
  - Cold trap monitoring
  - Fuller's earth cleaning
  - Vacuum filling
  - Oil retrofill

## Industrial Motors

### Equipment Serviced

- Electric AC/DC motors
- Synchronous motors
- Generators
- Pumps
- Adjustable speed drives

### Rewind, Rebuild, Repair

- AC/DC motor repair & rewind up to 20,000 HP
- Test capabilities to run motors up to 7,000 Volts
- Dynamic balancing

### Preventive Maintenance

- Vibration analysis & laser alignment
- Motor circuit evaluation testing w/ PdMA® equipment

### Manufacturing

- Modification of WPII hoods for improved cooling
- Motor adapter

### New Equipment Sales

- Motors & generators
- AC & DC drives

### On-Site Services

- Installation & removal
- Laser alignment
- Cryogenic cleaning
- Safety-focused workmanship
- Fleet of trucks & service vehicles with extensive crane capabilities
  - Certified vibration analysis
  - Testing & verification services
  - Predictive & preventive maintenance



## Custom Switchgear

### New Construction

- 5 kV through 38 kV
- Switches, breakers, starters
- Indoor & outdoor
- Independent supplier of OEM components
- IEEE, NEMA, 3rd party standards
- Metal-clad & metal-enclosed

### Innovative Designs

- Load-break switch over contactor or breaker
- Arc flash mitigation
- VFD switchgear
- Input/output/bypass sync transfer

### Draw-Out Metal-Enclosed Switchgear

- Compact design; shallow footprint
- Indoor & outdoor applications
- Alternative to larger metal-clad lineups

### Field Services

- Switchgear & breaker testing
  - Primary & secondary injection
  - Timing & ductor testing
  - CT & PT testing
- Services
  - IR thermal analysis
  - Maintenance
  - Retrofits & retrofills
  - Commissioning & decommissioning

## Other Services

- Protective relay testing
  - Cable testing
  - Ground grid testing
  - Arc flash studies & mitigation
- Ground fault protection & metering
  - New & used parts & equipment



**SWELECTRIC.COM/OILANDGAS**  
info@swelectric.com | 833.YOUR.SWE

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