ABB brings complete solutions to help you generate, deliver, use and control your energy.

**Power Delivery**
- Power system upgrades and retrofits
- Breaker and relay testing services
- Arc flash hazard analysis/power system studies
- Predictive and preventative maintenance
- Critical power — automatic transfer systems service
- Substation design/build/repair

**Transformer**
- In shop repair/rewind to 500 MVA/500 kV
- On-site repairs and services to any size
- On-site rewinds to 800 MVA
- On-site HV testing — induced, impulse, load-loss
- Fleet of more than 20 oil processors in North America
- Upgrades for short circuit, cooling, MVA
- Access to drawings for ABB, McGraw Edison, and Allis Chalmers

**Drives and Controls**
- Servicing all your GE and other vendors drives and controls products
- AC and DC drive system upgrades, retrofits and replacement
- Drives repair, maintenance and refurbishment
- Drives circuit board repair
- PLC, HMI and SCADA systems
- Remote monitoring and diagnostics

**Motor/Generator**
- Maintenance, repair, replace, uprating and parts
- Rewinds up to 15 kV
- Condition forecaster — predictive maintenance
- On-site and in-shop repair and service
- Electrical and mechanical testing/diagnostics
- Control systems and excitation upgrades/field services
- Environmental — emissions monitoring, testing and control retrofits

**Mechanical**
- Rebuild/repair of gear boxes, fans, pumps, refiners, compressors, centrifuges, crushers, steam turbines
- Transportation repair and exchange solutions
- Extensive machine shop and welding capability
- Dynamic and static balancing
- Bearing re-babbitting
- On-site machining, laser and optical alignment

**Non-Destructive Testing**
- Buried pipe inspection
- Computed radiography
- Powerhouse tubing and vessel
- Turbine/rotor inspection
Hydro
- Generator rewinds
- Generator uprates
- Rotor refurbishment/pole service
- Test and inspect
- General services

Disaster Recovery
- Access to resources (engineers, craft, technicians)
- Equipment condition assessments
  - Power systems, drives
  - Recommendations - repair/replace
  - Repair coordination
  - Test equipment
  - Multi-vendor
- Specify/source replacement equipment
- Site management and logistics
  - Engineering support
  - Technical direction
  - Craft labor
  - Communication command center
  - Installation, startup and commissioning
- Emergency repair

Service Agreements
- Maintenance/service contracts
- On-site support and remote monitoring and diagnostics
- Preventive/planned/unplanned maintenance

On-Demand and Emergency Services
- 24 x 7 x 365 emergency services and parts support
- Installation, startup and commissioning
- Feasibility/engineering studies
- Assessment/inspection/testing
- Consulting power, drives, energy
- Outages
- Repair and product replacement
- Parts — test and certify, new, exchange and remanufactured

Training
- Electrical safety
- Drives and controls
- Power equipment
- Power management

Contact us:
For more information, call us toll free at +1 888 434 7378, or +1 540 387 8617 and visit us on the web at solutions.abb/industrial-services