In addition to being a global technology leader in transformer manufacturing, Siemens provides installation and aftermarket services on large power transformers through our U.S.-based transformer services group.

We provide a factory-trained project engineer and an experienced crew committed to supplying you with complete life-cycle services from equipment installation to maintenance and ultimately replacement.

**Typical services provided**
- Turnkey installation and replacement
- Assembly, vacuum oil fill and testing
- Bushing and cooler changeouts
- Relocation
- Regasketing, leak repair
- Oil filtration and refurbishment
- Load tap changer maintenance
- Condition assessment
- Monitoring systems
- Spare parts management

**State-of-the-art equipment**
Our processors can efficiently and competitively handle units 765kV or greater. Transformer oil passed through our processors meets most OEM’s specifications with one pass.

- Baron’s vacuum oil purifier/degasification trailers equipped with 171 CFM tandem vacuum pumps with AOV isolation
- 30 GPM oil filtration with full degassing capabilities
- 350 kW auxiliary power
- Total gas content monitor
- 192 kW heater system
- Two oil filtration systems
- Hydro-bloc dry air system
- Oil testing capabilities on trailer

**Customer benefits**
- Single source supplier with no third parties to coordinate
- Augment your in-house service capabilities
- Comprehensive project management with access to OEM engineering departments
- Most advanced equipment available
- Improved transformer reliability and performance

usa.siemens.com/asset-services
Transformer installation

We provide an experienced project engineer and field crew for our installation projects. Our crews work to stringent procedures for installation, oil filling and testing in-line with the following:

• Approval inspection of the transformer and inventory of all the components detached for shipment
• Assembly and preliminary testing in preparation for oil filling:
  – Ratio and polarity of current transformers
  – Bushing power factor and capacitance
  – Core ground resistance test
  – Ultrasonic leak detection of tank and fittings
  – Positive pressure leak test
  – Vacuum leak rate test
• Transformer processing and oil-filling per Siemens or customer specific procedures and standards
• Final approval testing to include a complete assessment of the transformer and transformer oil:
  – Transformer turns ratio
  – Insulation power factor
  – Insulation resistance of both windings and core
  – Functional testing of all protection and control circuits
  – Oil dielectric strength – ASTM D1816 & ASTM D877
  – Oil moisture content – ASTM D1533
  – Oil total gas content – ASTM D2945
  – Interfacial tension – ASTM D971
  – Acidity/neutralization number – ASTM D974
  – Frequency response analysis (if required)

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