Transformer services
for the oil and gas industry
Rapid installation, testing and maintenance services that ensure a consistent energy flow
In an industry where operations with fewer surprises means more productivity, the ability to rely on your assets is crucial.

Mitigate the risk of transformer failure with proper installation and tailored maintenance strategies.

The harsh environments inherent to most oil and gas operations place enormous stress on your transformer’s external parts, requiring shorter intervals between cleaning, refurbishment or replacement.

Reduce the risk of unplanned outages interrupting your production. By leveraging digital technologies, we can assist your organization in implementing a proven asset performance monitoring platform. This strategy will allow you to reduce required maintenance intervals while preserving confidence that your production will not be hindered by an unexpected loss of power.

ABB offers a number of services tailored to the oil and gas industry:

- Greater visibility with ABB’s Transformer Intelligence™ monitoring and diagnostics platform
- Rapid installation and commissioning to begin or resume production
- Tailored maintenance procedures optimal to your asset’s environment
- Dry-type bushing replacements for higher reliability
- Access to an exhaustive library of OEM replacement parts
- Transformer repairs for a fast and cost-effective solution to resuming production
- Tailored service agreements ensuring rapid response to production-threatening problems
- Local presence and innovative solutions including over 30 offshore-certified transformer engineers and technicians
Transformer Intelligence™

Greater visibility of your assets’ performance and health.

ABB’s Transformer Intelligence platform allows for better management of your transformer assets, enabling critical maintenance decisions and lifecycle planning.

Leverage today’s precision electronics to collect data from your transformer’s vital signs via our **Sensor Technologies**.

The raw data is then rendered into useful insights of your individual transformers through our **Monitoring and Diagnostics** offer.

Your organization can then opt to harmonize the data from your entire fleet with a powerful analytical software that incorporates over 100 years of design and service experience. This powerful **Asset Management Solution** provides predictive and prescriptive maintenance procedures so you can better deploy resources.

Should you opt to skip the analytical approach or simply need advice, our **Expert Services** teams are always present to assist you with all matters pertaining to your assets.
Rapid installation and commissioning

Trust our expert service teams to safely install your transformers.

**ABB’s local installation and commissioning expertise**

We offer a wide range of services for installing and commissioning your units to suit your timing:
- Installation and commissioning of all types of units from distribution to large power transformers
- Eliminating the need for costly high-capacity crane rentals via our jack-and-slide technique
- Capability of installation and commissioning in offshore environments with our certified team
- Onsite training and walkthrough of your new assets’ features
- Skid-mounted solutions that have already been tested and commissioned at our facilities for the fastest possible onsite deployment
- Gain access to your transformer install base via your MyABB portal

Using prefabricated skids (leftmost transformer) and specialized moving equipment (both rightmost transformers) ABB is able to deploy these large assets in record time.
Intensive routine maintenance

When basic routine maintenance doesn’t make the cut – operate with confidence knowing your transformers are maintained according to how they are used.

**ABB’s maintenance expertise**
Transformers operating in the oil and gas industry are often used more intensively. We recognize this and offer tailored services to ensure your transformers provide continuous production.

- Years of ABB design expertise position our experts as the best suited option for maintenance operations regardless of the original manufacturer
- ABB stands by its maintenance routine to assure your peace of mind that these critical assets are properly maintained
- For intensive production, every piece counts: authentic ABB parts offer reliability, performance, value and safety for your day-to-day operations
- ABB’s innovative maintenance solutions are quick operations that minimize your production downtime
Bushing replacements

Upgrade to the latest technology and mitigate risk.

Replacing a high-voltage bushing is a critical procedure that should be performed by an experienced transformer service organization. Many factors come into play when selecting a bushing to ensure a perfect fit.

Some advantages of upgrading to a dry-type bushing:
- Reduced risk of explosions and fires due to use of polymer insulators instead of oil-filled porcelain
- Lower maintenance due to no leakage of oil and a hydrophobic surface that reduces the need for cleaning
- Can be stored and transported at any angle
- Lower weight and size allow for quicker installation
Spare and replacement parts

Exhaustive library of spare parts.

Genuine replacement parts for continued reliability
Whether for scheduled maintenance or in emergency situations, not having the required replacement parts on hand can significantly increase downtime and logistics costs. Planning for critical parts in advance can be an effective way to reduce production delays.

Advantages to choosing ABB as your primary parts supplier:
- Genuine, high-quality spare parts and consumables
- Condition or fleet assessments to determine critical parts
- Access to the original design documents for our legacy brands worldwide: ABB, ASEA, Ansaldo, Breda, BBC, CGE, Elektrisk Bureau, Elta, IEL, ITE Indelve, Italtrafo, Lepper, MFO, GE, Gould, Marelli, Moloney, National Industri, Ocren, OEL, OTE, Richard Pfeiffer, Sécheron, Strömberg, TIBB, Thringe, Westinghouse and others
Transformer repairs

Faster repairs for less downtime and lower costs – trusted expertise to reduce costly production delays.

**Factory and onsite repairs**

Before recommending whether a transformer should be repaired onsite, in a workshop or simply replaced, ABB performs technical and economical analyses and will execute the solution depending on what factors are most important to you.

**ABB’s transformer repairs are:**

- Backed by the largest original design database
- Compliant with the same strict quality controls applicable to new transformers
- Treated to lower moisture content levels to factory dryness standards due to ABB’s exclusive Low Frequency Heating (LFH) technology
- Rigorously tested in factory or onsite with our TrafoSiteTesting solution
Digital transformer service contract
Do more. Together.

Cut complexity, get expert support and stay informed
• Get assigned a single point of contact for prioritized local service via exclusive e-mail and 24/7 phone support
• Receive a bank of 10 hours per enrolled transformer to enable rapid response and technical consulting
• Benefit from a yearly site inspection conducted by an ABB expert, including one condition assessment report
• Save against ABB published labor rates for the applicable calendar year (maintenance, inspection, testing and diagnostic services)
• Save on transformer-specific parts
• Keep track of your service history and reports using myABB Portal
• Receive notifications on latest cybersecurity patches and software updates

+25
Countries with transformer service units

~1,300
Employees dedicated to customer services

24/7
Availability with our CUBE follow-the-sun service

> 100k
Transformer installed base
The ABB transformer service team
Local teams with global expertise

Further leveraging ABB’s expertise
Our local service teams are constantly innovating to provide support in the best ways possible.
• TXplore™ submersible robot conducts visual inspections without the personnel risk and extended downtimes
• Oil reclamation and de-gassing leaves oil better than new\(^1\)
• Mature Transformer Maintenance Program (MTMP) lets our experts evaluate and deliver a health report for all your assets
• Onsite testing allows us to verify the integrity of your transformer at a regular interval, after a fault or when you are notified of the need via the Ellipse condition monitoring platform
• Our extensive transformer design and manufacturing experience allows us to identify the condition of critical assets and determine actions that lower risk and optimize maintenance budgets
• Training courses to ensure the continuous development of your team by gaining insightful knowledge for operating, maintaining and repairing your transformers

1. Oil remains cleaner longer when compared to conventional dump and fill.
Additional information
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