Transformer services for the mining industry
Rapid installation and digitalization for minimized downtime
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 mining 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 mining 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
- Transformer repairs for a fast and cost-effective solution to resuming production
- Dry-type bushing replacements for higher reliability
- Tailored service agreements ensuring rapid response to production-threatening problems
- Local presence and innovative solutions that cost you less
Leveraging digitalization to provide greater asset visibility

Establish a digitalization strategy that unites with your current operations.

**ABB’s Transformer Intelligence™ Platform**

This highly modular platform allows us to build digital insights based on your criteria:
- From individual sensors to complete fleet management software, our offerings will integrate with ABB hardware as well as other OEM providers and allow you to build the insights you need
- Off-the-shelf solutions and software allow you to immediately leverage our performance models without costly software development
- Onsite software training to get the highest potential from your system
- Try-and-buy packages allow you to test the system without committing to large-scale digitalization projects
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.

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

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
- 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

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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 mining 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
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
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
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
- 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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