Minimize unscheduled downtime and make better maintenance decisions.

ABB Ability™
Ellipse® APM Edge
Unscheduled downtime can cost utilities and industrials millions of dollars. Ellipse® APM Edge provides transformer Asset Managers actionable insights to minimize the risk of unplanned outages and prioritize investment decisions all while being scalable from one transformer up to an entire enterprise.
The challenges of transformer asset performance management (APM)
Risk, Reliability and ROI

Maintaining a fleet of transformers is more challenging than ever. Utilities and Industrials are facing increasing pressures to reduce risk and improve reliability while delivering greater ROI from assets.

Leading utilities and industrials are looking to meet these challenges by minimizing maintenance surprises and gaining greater certainty over transformer performance and investment decisions.

Key drivers affecting maintenance strategies

**Loss of experience**
An aging workforce means less on-site skill and experience within operations, maintenance and engineering teams.

**Aging assets**
As transformers age, companies are looking for more-effective ways to maintain their aging assets.

**Market pressures**
Competitive challenges mean a continuing need to improve reliability and customer satisfaction.

**Margin pressures**
Heightened cost and profitability challenges are forcing companies to identify strategies for increasing plant availability while decreasing maintenance spend.

**Network complexity**
As technology advances and components become digitalized, maintenance requires higher levels of knowledge and expertise because of increased amounts of data and the addition of renewables.

**Data management**
Inadequate historical data and past performance visibility increases the direct and indirect costs of unscheduled transformer downtime.
ABB Ability™ Ellipse® APM Edge
Minimize maintenance surprises and provide certainty for transformer performance and investment decisions.

ABB Ability™ Ellipse® APM Edge is a quick and cost effective entry into transformer asset management. It combines ABB’s industry-leading asset performance management software (Ellipse® APM) with ABB’s proven transformer expertise in a compact package that grows with you.

Edge ready
Runs on ABB’s digital edge, on premise, communicating with most industrial communication standards on low-cost, standard hardware. It offers a quick and efficient way to run Ellipse® APM with minimal capital expense.

Scalable
Whether you operate one transformer or a fleet, you scale up to Ellipse APM on-premise or in the cloud as you grow. You benefit from the software without making significant capital investment.

Direct-to-sensor connectivity
Features plug-and-play capability with ABB sensors. Direct-to-sensor connectivity eliminates the need for a historian. Enhances the value of your existing transformer sensors and hardware by reducing IT costs, complexity and time-consuming approval processes.
Transformer Intelligence™

Ellipse® APM Edge identifies risks early to prevent unscheduled transformer outages.

With Ellipse® APM Edge, you can replace inaccurate and costly time-based maintenance schedules with condition-based maintenance to reduce maintenance & operation costs and optimize asset utilization.

- **CyberSecure**
  Runs on an independent network or intranet. Reduces your security risks by meeting ABB’s stringent Cyber Security Standards, which are based on industry requirements.

- **Expert system**
  Features a human-trained deterministic model that statistically cleanses and correlates data components to each other and known failure modes. It identifies and delivers actionable intelligence—including maintenance recommendations.

- **Monitoring and analytics**
  Combines all online and offline data into a common schema. Plots, trends and compares this data with globally recognized standards (IEEE, IEC). Visualizes datapoints to more accurately identify and predict risks—while optimizing asset performance.

- **Compatible**
  Compatible with most manufacturer’s devices and plug-and-play with ABB’s digital eco-system, including CoreTec™ 4 monitoring platform, CoreSense™ DGA, and the ABB Ability™ digital Power Transformer.

- **Dynamic transformer management**
  Leverages ABB’s patented algorithms and deep historical knowledge on transformer data. Continuously provides true failure probability.

- **Data management**
  Combines online, offline, test data and individual asset documentation from different systems into one location. Eliminates the need for a historian and increases data organization to improve administrative efficiencies.
Benefits
Peace of mind

Trust your transformer asset management to the world leader in transformer manufacturing and asset performance management.
Should you be investing in ABB Ability™ Ellipse® APM Edge?

Is ABB Ability™ Ellipse® APM right for you?

1. Are you experiencing high maintenance costs?

2. Are you dealing with an aging transformer fleet? Or a skills gap emerging in your workforce?

3. Are you having issues with data warehousing and leveraging it for better decision making?

4. Is your transformer failure rate higher than expected?

5. Would you benefit from an APM solution that is cost-effective and quick to install?

For more information, please contact:
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