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.

Over the life of a transformer, the asset will be subject to various conditional and environmental events from the power network. These events include over-voltages, short circuits, emergency overloading and failing accessories, which can create unpredictability in the asset’s performance and greatly increase risk of failure.

Cost-effective APM software solution
As a subset of the ABB’s Digital Enterprise software, APM Edge offers an economic and quick point of entry into the full portfolio of software solutions.

Designed with transformer asset managers in mind, APM Edge is an on-premise asset performance management (APM) software that optimizes transformer utilization. It identifies risks early to prevent unplanned outages, reduce maintenance and operational costs and ultimately replaces time-based maintenance with condition-based maintenance.

Reduce premature aging
Operating transformers above design parameters can cause premature aging of insulation and require early replacement of the unit. Transformers equipped with CoreTec™ 4 and cooling control can monitor and act on premature aging by tracking load, temperature, moisture and dissolved gas variations.

Why APM Edge
- Increases transformer reliability by identifying, prioritizing and resolving risks before they materialize
- Flexible – a quick and simple way to establish a scalable asset performance management solution that grows with you
- Lowers maintenance costs by reducing ineffective time-based practices and expensive failures
- Reduces capital expenditures by getting longer economical life from existing assets
- Increased efficiency and storage of online and offline data
- Meets stringent cybersecurity standards
APM Edge identifies risks early to prevent unscheduled transformer outages

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

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.

Cybersecurity
We perform a comprehensive suite of tests, including port scanning, network flooding, vulnerability and protocol fuzzing – aligning with international standards such as IEC 62443.

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

Direct-to-sensor connectivity
Connects with any Modbus equipped sensors. Eliminates need for a historian and enhances the value of your existing transformer sensors by reducing IT costs, complexity and time-consuming approval processes.

Monitoring and analytics
Combines online and offline data into a common schema to plot, trend and compare data with globally recognized standards. Visualizes datapoints to more accurately identify risks while optimizing asset performance.

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

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

Why APM?
APM is the most proven and efficient asset performance management solution available on the market. Its speed of implementation and extendibility allows you to start lean, experiment, learn and accelerate your organization’s digital transition while savings are realized.