The primary objective of a maintenance organization is to ensure asset availability and performance goals are met on a predictable basis. To do so successfully, requires visibility and collaboration with the appropriate personnel so that the right maintenance activity can be performed, when it is needed, to reduce unnecessary downtime.

The challenge is having the relevant information available at the right time, in the right form, and accessible to the right people.

**Asset Optimization for high voltage circuit breakers**

As an essential component of ABB’s overall asset management program, Asset Optimization software offers the ability to view all relevant circuit breaker condition information in one seamless interface. This interface provides a complete view of the health and performance of an asset with all of the richness of information and capabilities of each specialized system, while eliminating the need to switch between several systems, workplaces, application environments and navigation schemes.

Asset Optimization uses patented “Aspect Object™” technology that collects and displays all information required to install, operate and maintain each high voltage circuit breaker in one place, including:

- Documentation (e.g. drawings, parts list, instruction books, etc.)
- Specific device software (e.g. CBInsight)
- Alarms, events, and asset monitor notifications
- Real-time camera feed
- Current weather conditions
- Detailed “Fleet Assessment” reports
- Maintenance management system
- and more...

**Condition monitoring**

This high voltage Asset Optimization application offers asset monitors to identify issues that contribute to the health of a circuit breaker, such as SF₆ leakage.

ABB can provide customized asset monitors to support individual customer requirements.

**Condition reporting**

Within the workplace environment, maintenance personnel are provided with meaningful analysis and reporting tools needed to identify and analyze poor circuit breaker performers. Report screens provide immediate visualization of performance problems.

**Features**

- Complete asset optimization for High Voltage circuit breakers:
  - Dead Tank Circuit Breakers
  - Live Tank Circuit Breakers
  - Generator Circuit Breakers
  - Gas Insulated Substations
- Interface integration of disparate Computerized Maintenance Management Systems (CMMS) and Historians
- Reporting and analysis visualization tools
- Alarm auto-notification (SMS & e-mail messaging)

**Benefits**

- Complete asset optimization; A single interface to optimize asset availability and improve maintenance efficiencies
- Real-time monitoring of asset health facilitates fast, reliable implementation of corrective measures
- Reporting and analysis visualization tools support consistent report of asset health as well as root cause determination
- Reduces time to repair equipment through optimized work processes
- Automatic monitoring of maintenance conditions
- Enables adoption of condition-based maintenance strategies, due to advanced knowledge of circuit breaker performance or impending failure
- Consistent reporting of asset health
ABB’s High Voltage asset management program

An effective asset management strategy seeks to increase equipment availability by providing insight into the health, corrective action instructions and organizational visibility, reduces decision time, and coordinates maintenance activities.

ABB provides asset management solutions that present condition information seamlessly and in the proper context. As a result, continuous improvement initiatives, such as proactive maintenance practices, will improve maintenance efficiencies and minimize unscheduled shutdowns and the environmental impact of SF₆ gas usage.

ABB offers solutions supporting the following asset management tools and strategies:
- Condition-based monitoring
- Predictive maintenance
- Fleet assessment
- Alarm management
- Historical analysis
- Tracking assets
- Remote connections
- CMMS integration
- Reporting and analysis
- Auto-notification

For more information please contact:

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