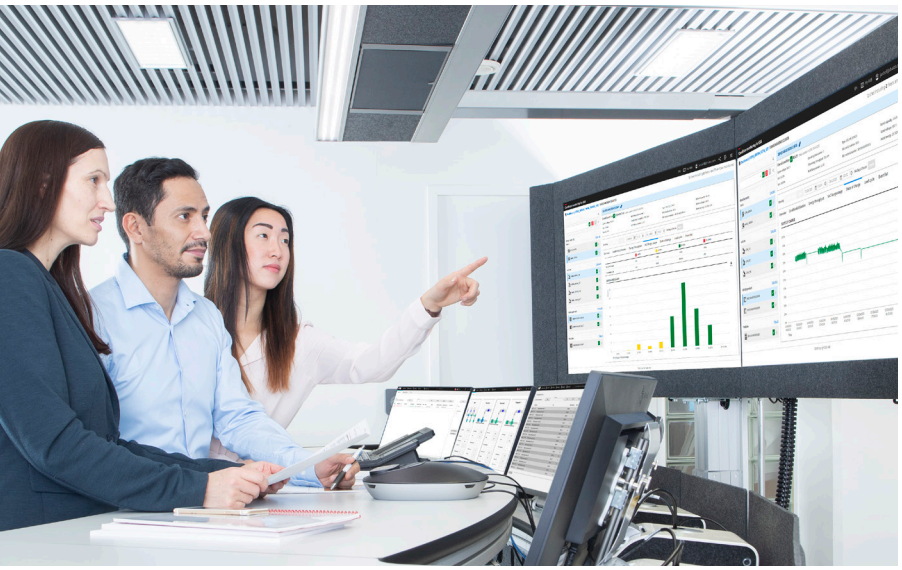
TRACTION

ABB Ability™ Condition Monitoring for Energy Storage Systems



Condition Monitoring provides fact-based insight, enabling optimal utilization of Energy Storage Systems (ESS).

Condition monitoring remote services
ABB Ability™ Condition Monitoring consists of a suite of remote services which provide key operational information about the connected products.

Reduce unplanned downtime
Early detection of potential issues and assessment of their risks before they lead to a failure.

Energy Storage System monitoring
ABB Ability™ enables to review the condition of the ESS remotely, e.g. through a web browser or data interface.

Data-driven decisions
Leverage real-time and historical data with the condition monitoring capabilities to make informed decisions and ensure safe and optimal utilization of the equipment.

Receive valuable product insights
Analysis of aggregated field data provides valuable insights into the current health to identify and implement corrective actions and optimize its usage.

Fleet overview
Review and compare the information about the equipment in your fleet through one portal.

Speed up service response time
Remote access to data significantly reduces the time taken to analyze field data and plan corrective actions without physical presence on the vehicle.

Stay informed
Receive email notifications about important events and stay ahead with reports about the equipment in your fleet.

Online features and assisted services

Online features

Our standard online features offer industry leading monitoring capabilities to fit your needs — whether you want to view the ESS status through the ABB web portal or integrate this data with your existing monitoring systems.

Feature	Description	Benefits
Condition monitoring	**ABB portal** • Secure and personal access to the portal • Track condition of ESS KPIs within vehicles and fleets • Review ESS performance history • View signal graphs for state of charge, temperature, power and more • View KPIs for energy usage, state of health and more	• Monitor the performance of your ESS remotely within a fleet and vehicle structure • All ESS operations data available through one portal — compare key performance indicators (KPIs) of different ESS and vehicles
	Data interface[1] • Interface for receiving Condition Monitoring data from ABB Ability™ cloud in your own monitoring systems	• Embedded ESS operational data in your own monitoring infrastructure and asset management system
Online storage for diagnostics data	**Data storage** • Automated data transfer to ABB Ability™ cloud	• No physical vehicle access necessary to retrieve diagnostics data • Improved service analysis process in the event of failure
Automated reporting[1]	Create custom reports	• Automated summary report of operational data
Alarm management[1]	Define alarms for the ESS based on events or conditions	• Immediate information when condition signals exceed the set limits • Maintenance and repair actions without delays
Event management[1]	See events of the ESS in an event list view	• Fast and easy monitoring of ESS events
Direct links[1]	Use a direct link to share insights/visualizations with colleagues or remote operator for further discussion or analysis	• Easily share filtered analysis view with working colleagues

[1)] Planned features for future updates

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