Ability™ OEE monitoring
Equipment monitoring for Ability™ System 800xA and Compact HMI 800

Overall Equipment Effectiveness (OEE) gives you an overview of the performance, availability and quality in your manufacturing processes. The Ability™ OEE helps you identify the pain points that lower your productivity. Monitoring your OEE will help you make the right decisions and better utilize your equipment so that you can make the most out of your production processes and resources.

Boost your manufacturing productivity with Ability™ OEE

Key benefits
- OEE metrics and vision on a local and enterprise level
- Real time local OEE metric visualization via mobile and tablet
- KPIs calculated and delivered using standard objects, tools and reports
- Objects specifically designed to capture, visualize and facilitate reporting of equipment performance and facility operational data
- Designed for use either real-time standalone install or use with both System 800xA and Compact HMI 800 platforms
- Applicable for both new and existing equipment

Introduction
OEE identifies how well your equipment is utilized, measuring performance, availability and quality. The Ability™ OEE monitor solution collects data, performs calculations and visualizes you KPI's, both locally and at enterprise level. The Ability™ OEE graphics gives you a good real time overview of your productivity with possibilities to look at trends over time and create reports. Ability™ OEE also connects to the alarm and event functionality in Ability™ System 800xA or Compact HMI 800 to alert on loss of performance or quality metrics.
Scalable solution - local to enterprise level
The scalable solution gives you the option to view OEE metrics at the desired level.

Ability™ Node - Local data connection, collection and visualization
Real time data is collected from your equipment via a locally installed Ability™ Node based on the ABB AC500 PLC platform. The OEE metrics can be visualized and configured in real time using web based tools, either the ABB CP600-WEB interface or through suitable connected mobile devices.

Using Web Visu via Wireless LAN Access to allow visualization, interaction and OEE Scheduling via Tablet or Mobile

Ability™ Server - Analytics and gateway to the enterprise
The Ability™ server provides a holistic view of the equipment effectiveness in the entire connected plant. Data from all connected Ability™ nodes is consolidated into a common platform then analysed, visualized, trended and reported in a user-friendly way across the business unit. One local Ability™ server can connect and aggregate data for up to 50 Ability™ Nodes. In the Standard 800xA / CHMI800 workplace environment the factory space can be easily visualized using standard graphical objects. This gives the overall picture on what is impacting the OEE metric. The charts, alarms and trends can also be viewed at the business level using the ABB Smart Client interface.

Ability™ MOM - Enterprise analytics enabling business optimization
The Ability™ MOM server can be connected to several Ability™ servers. This provides for long term historical storage of process data, enabling performance analytics of multi business units. Utilizing the Ability™ MOM dashboard, the performance of multiple business units can be visualized and reported at the enterprise layer.

Scalable solution - local to enterprise level
The scalable solution gives you the option to view OEE metrics at the desired level.