cpmPlus OEE
Operational Equipment Effectiveness Software

ABB's cpmPlus OEE is a software product that provides a modern Windows based environment to implement real-time production efficiency measurement and analysis solutions for industrial users. It contains ready to use reports and displays for OEE measurement. Multiple facilities can be integrated to provide a company wide solution and allow comparisons, benchmarking and the sharing of best practices between production facilities.

Factory overview

The factory overview gives a clear, at-a-glance picture of how the entire plant is performing in real time. Performance metrics from all the machines are neatly fitted into an easy-to-visualize graphical view of your current production state according to the factory layout. The factory overview also serves as a visual navigator linking to the OEE measures of the individual production lines.

Features
- Overview of plant performance
- Visual navigation page linking to sub processes and production lines
- Current production state
- Online performance metrics
- Alarms

Main view

The main view is used to give in-depth information about the performance and - even more importantly - the scale of the improvement potential. Making decisions on where to focus operational improvements becomes easy and intuitive. The display also provides detailed information about the causes and durations of stoppages, speed losses and quality defects, quickly bringing the underlying causes of reduced performance into perspective.
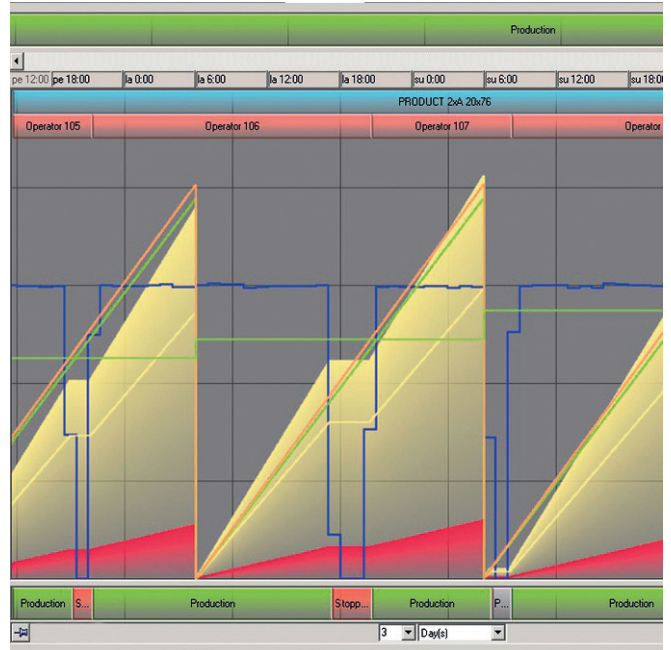
Information such as such the average availability, major causes of stoppages, or common factors behind outages, can be quickly and easily found.

Features
- Current production state
- Online performance metrics
- Performance improvement potential
- Time, speed and quality loss analyses
- Registration of time and speed losses

Pareto report

The Pareto report allows you to drill down and easily identify the major loss categories. Stoppage data is grouped and summarized into easy-to-analyze information. The most significant reasons for production losses are automatically sorted, giving the total count of events and duration. This report is a great tool for teams working on continuous improvement and root cause analyses (RCA).
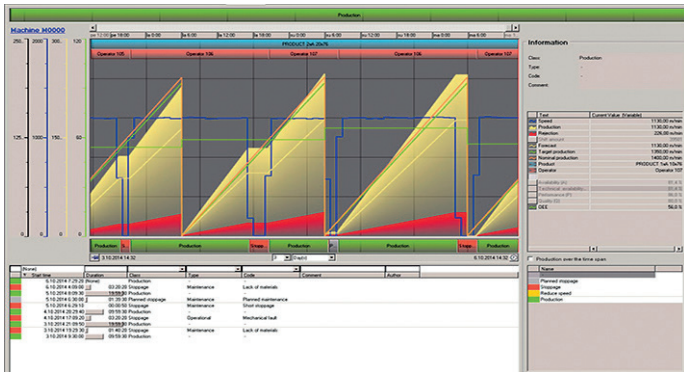
Power and productivity
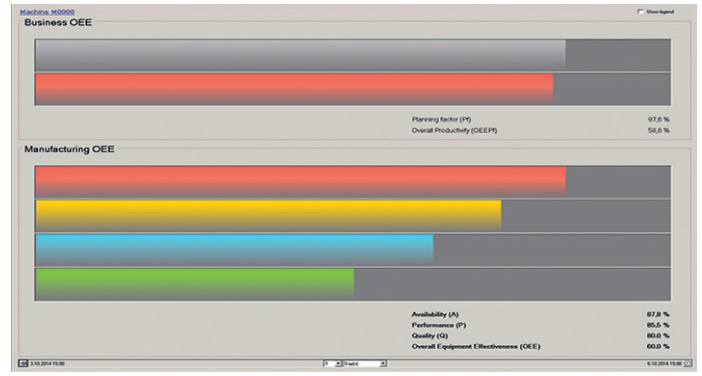for a better world™

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Fig. 1: Example of Main View

Fig. 2: Example of OEE Report View

OEE report

The OEE report is used to understand the long term performance of the production lines. It can help to identify the largest potential for improvements, to ensure that changes have had the desired impact, and finally to ensure that there is no further room for improvement. The report can be viewed over different time spans, production lines and products.

Features

- Bar chart of OEE and its components
- OEE Graph, trends of Availability (A), Performance (P), Quality(Q), and Overall Equipment Effectiveness (OEE)
- Actual production vs. nominal production
- Lost production chart showing time losses (A), speed losses (P), and quality losses (Q)
- Key Performance Indicator (KPI) report
- Advanced reporting thru cpmPlus Decision Support

Additional software required on server

The following additional software is required on the OEE server:

- Windows Server operating system (see system requirements for exact version)
- Visual Studio 2012 or Visual Studio Runtime 2010
- Virus protection software

Application industries

cpmPlus OEE works across industries like Pulp and Paper, Metals, Mining, Chemicals, Life Sciences, Oil, Gas and Petrochemicals and Buildings and Infrastructure.

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