

LineView



real-time manufacturing intelligence

What will LineView do for me?

Reduce manufacturing costs

Smash your production budget and cut costs - most LineView lines achieve Return on Investment in less than 12 months

Improve machine efficiency

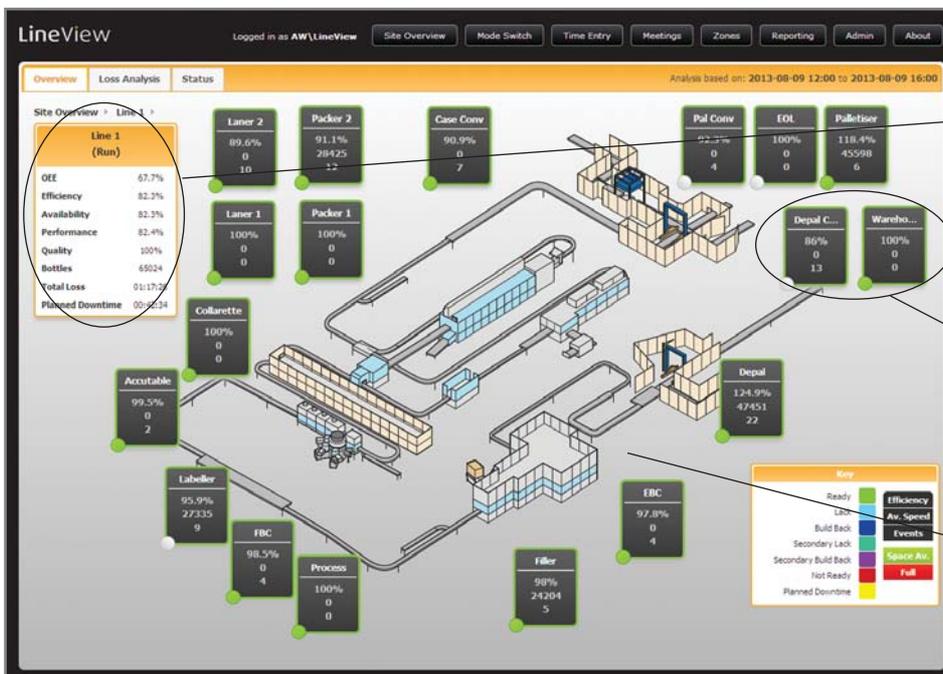
Increase your line efficiency by 8%+ in the next 12 months

Increase production output

LineView tells your teams where to focus their valuable time to drive plant output

The real power of the LineView system is that it constantly identifies the losses on your production line: all day, every day.

LineView monitors your entire production process in real time, constantly identifying the real area of loss to enable your teams to use highly accurate data to make effective decisions. All of your data is stored centrally and is available on every PC in the factory to enable effective decision making.



Instant overview
All your core KBI's in one place - at a glance you're always in control: Output, Efficiency, and Loss at your fingertips

Efficiency Figures
for every machine

Visual System
Graphic overlay of your line to instantly see the state of every machine on the line

Key features of LineView include:

- High resolution of data
- Full historical analysis
- Automatic data capture
- Web based interface
- No additional hardware needed
- Genuine causal downtime
- Live machine trending
- User configurable screens
- Configurable Reports
- Factory dashboard
- Inbuilt tactical review process
- Operator comment entry

Take control of your line...



Factory dashboard



2 hour analysis



Loss identified

True Causal Downtime - your real efficiency losses

Causal Downtime and 6 Loss Analysis

LineView features a fully automated casual downtime function. Real time 6 Loss Analysis splits your losses into categories to enable targeted improvement activity and effective decision making.

Loss category detail

Time and percentage of loss due to speed

Speed opportunities are indicated by black bars above coloured bars

Average speed of each machine compared to rated speed

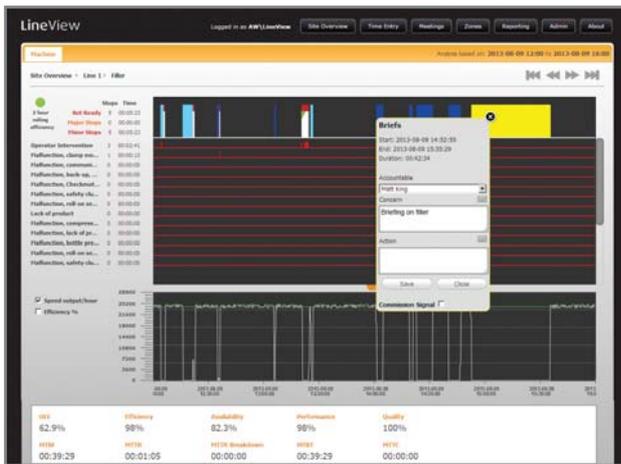
PDT

Time lost at critical machine due to this machine stopping

Number of rejects and percentage loss



Machine Diagnostics



To identify the root cause of your machine stoppages LineView provides high resolution automated trending of PLC fault codes on each machine. This unique feature enables you to see the causes of your downtime and their effect on the line.

Key metrics include:

- Machine Availability
- Machine Efficiency
- Downtime Analysis
- Mean Time Between Failure/Touch/Repair
- Parameter trending



Pin point action



Measure effectiveness



2 hour analysis



Drive OEE

Status Screen

The status screen provides an instant summary of your line performance in one chart. Every time you see a coloured block your machine has stopped. Using this page you can easily identify individual downtime and how it has affected your total output.

The top half of the screen analyses each of your machine stops in detail

Operator can provide additional fault information

Briefs

Start: 2013-08-09 14:52:55
End: 2013-08-09 15:35:29
Duration: 00:42:34

Accountable
Matt King

Concern
Briefing on filler

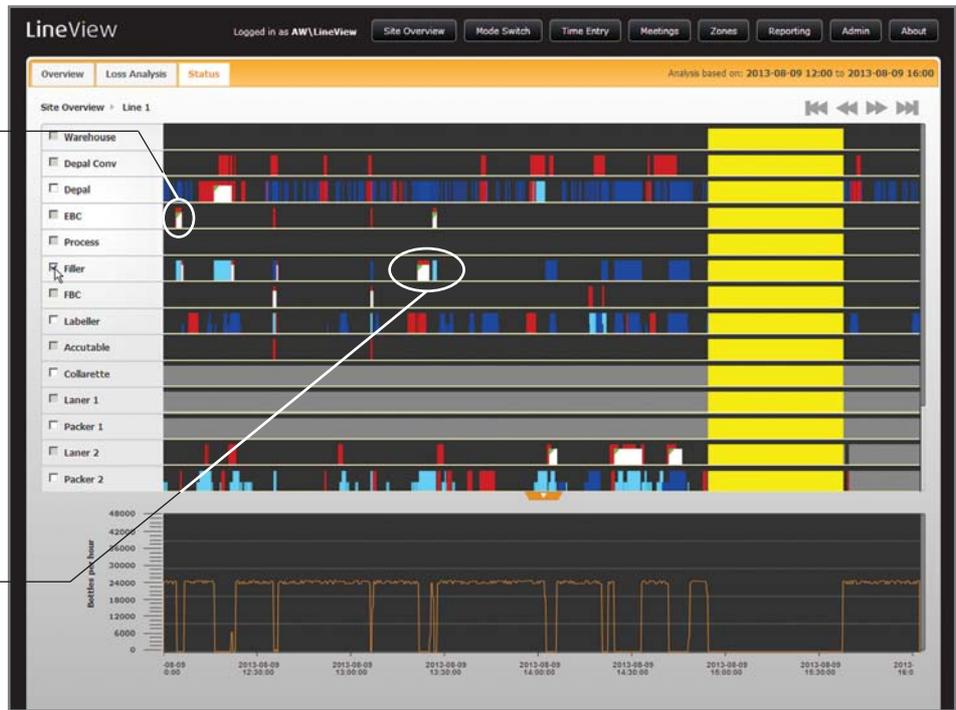
Action

Save Close

Commission Signal

Comment entry indication

The bottom half of the screen tracks utilisation and real time speed trends for each machine

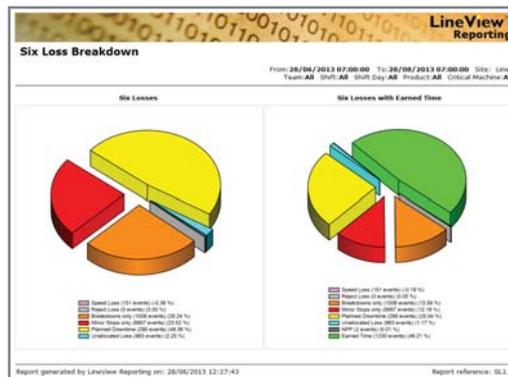


Reports and Report Editor

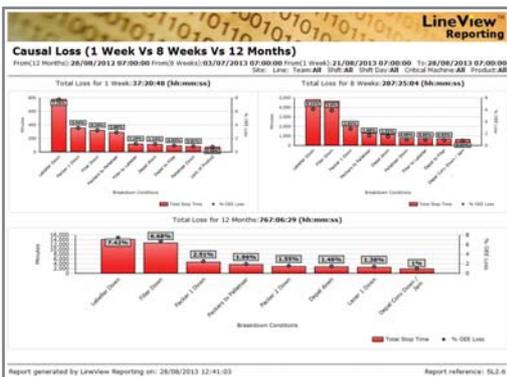
Real time data in LineView is automatically integrated into a comprehensive analytics and reporting suite enabling you to trend, analyse and compare your machines to identify long term or repeat issues. You can design your own reports in the report editor.



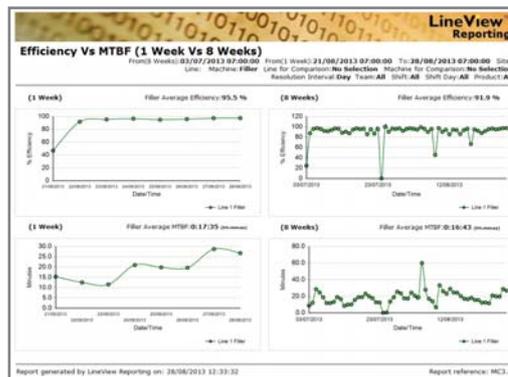
Line Performance



Six Loss Pie Chart



Critical Machine Loss



Machine Efficiency

Coca-Cola Enterprises chooses LineView to drive manufacturing improvement across their European Supply Chain



Coca-Cola Enterprises (CCE) have chosen the LineView system as the standard production line monitoring system for their Supply Chain Division. Over the last 3 years the LineView system has been implemented on every CCE production line in Europe to help increase efficiency and reduce manufacturing costs.

We have implemented Lineview on more than 70 production lines across CCE. The LineView system is a product of LineView Solutions Ltd (LVS).

Richard Davies, Vice President of Operations says of LineView; "We chose the LineView system after a 12 month benchmarking process to identify a cutting edge solution that would best enable our teams to take effective actions to improve plant productivity. The power of LineView is in the speed with which teams can identify the real losses to efficiency whilst providing the drill-down necessary for highly effective problem solving. With the operational support of the LineView Solutions team we have seen performance increases of up to 20% in less than 24 months."

LineView will be used as part of an ongoing strategic improvement programme to pinpoint improvement opportunities and increase line efficiencies. Based on current installations LVS believe that the implementation will help CCE significantly increase their plant efficiencies.

As part of a 3 year development project, LVS have been working closely with CCE to further enhance the functionality of the system to meet the ongoing demands of the company.

Coca-Cola Enterprises has manufacturing sites in 6 European countries and is the exclusive Coca-Cola bottler for all of Belgium, continental France, Great Britain, Luxembourg, Monaco, The Netherlands, Norway and Sweden, making it the biggest manufacturer of soft drinks in Europe.

About LineView:

The LineView system is a web based automated monitoring solution specifically designed for FMCG lines. LineView identifies the effect of downtime on the overall line output without the need for any operator intervention. It provides information in an easy to read format, enabling the Production teams to focus their efforts on taking action to reduce the losses rather than spend time interpreting the data. The system has been designed by Operational Experts and is based on 6 Loss Analysis and the Theory of Constraints. Suitable for any manufacturing environment, LineView is an extremely flexible tool that can help deliver real long term sustainable results.

About LineView Solutions Ltd (LVS):

LVS provide information systems for manufacturing environments from enterprise-level single machine production through to entire continuous flow production lines. LVS recognise that a system is only as powerful as the way in which it is used. To maximise the impact of online monitoring, LVS has a team of highly experienced Operational Consultants who work with production teams from the start of the project to ensure that the site achieves real long term improvement.

"LineView™ is the single most powerful manufacturing tool I've seen during my 15 years in operations management."

Richard Davies, Vice-President Operations **Coca-Cola Enterprises Ltd**

The logo for Coca-Cola Enterprises Ltd, featuring the company name in a red, cursive script font on a white rectangular background.

Some of the Results...

Coca-Cola Enterprises Ltd
Greater than 20% over 2 years

National Bakery Company
+8% Efficiency in 6 Months

About LineView Solutions Ltd:

We are experts in improving manufacturing efficiency.

By working with your teams we will implement cutting edge monitoring solutions with the processes to get real long term results.

We are passionate about making sure you get results. We believe that installing the system is just the start - our job is to make sure you get payback.

With a track record of successful implementations going back to 2001 we have developed tried and tested methodologies that will help your team create real and sustainable change with our systems.

www.lineview.com

LineView
SOLUTIONS

LineView Solutions Ltd
10 Ardent Court
William James Way
Henley-in-Arden
Warwickshire B95 5GF
T: +44 (0)1564 793039
F: +44 (0)1564 793930
E: enquiries@lineview.com
www.lineview.com



LineView
SOLUTIONS

OptimumFX.
CONSULTING

complete manufacturing
improvement