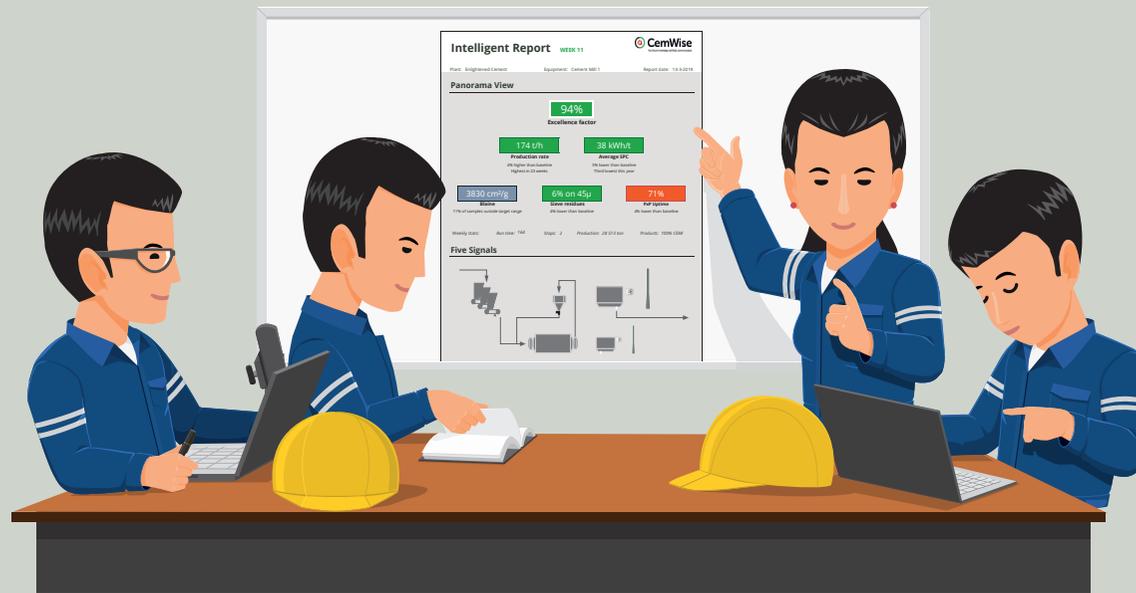


DATA DRIVE YOUR DECISIONS

The knowledge and clarity
to make useful decisions



**Service Subscription
Intelligent Reports**

WEEKLY INTELLIGENT REPORT CONTENT

The Panorama View

The panorama view allows for efficient navigation of what is up and what is down in last week's operation of the equipment.

The display of main indicators are selected in cooperation with the client to reflect the main priorities in production.

A one stop overview of performance is presented with the Excellence factor. The percentage is related to the week with the best performance as defined by client priorities.

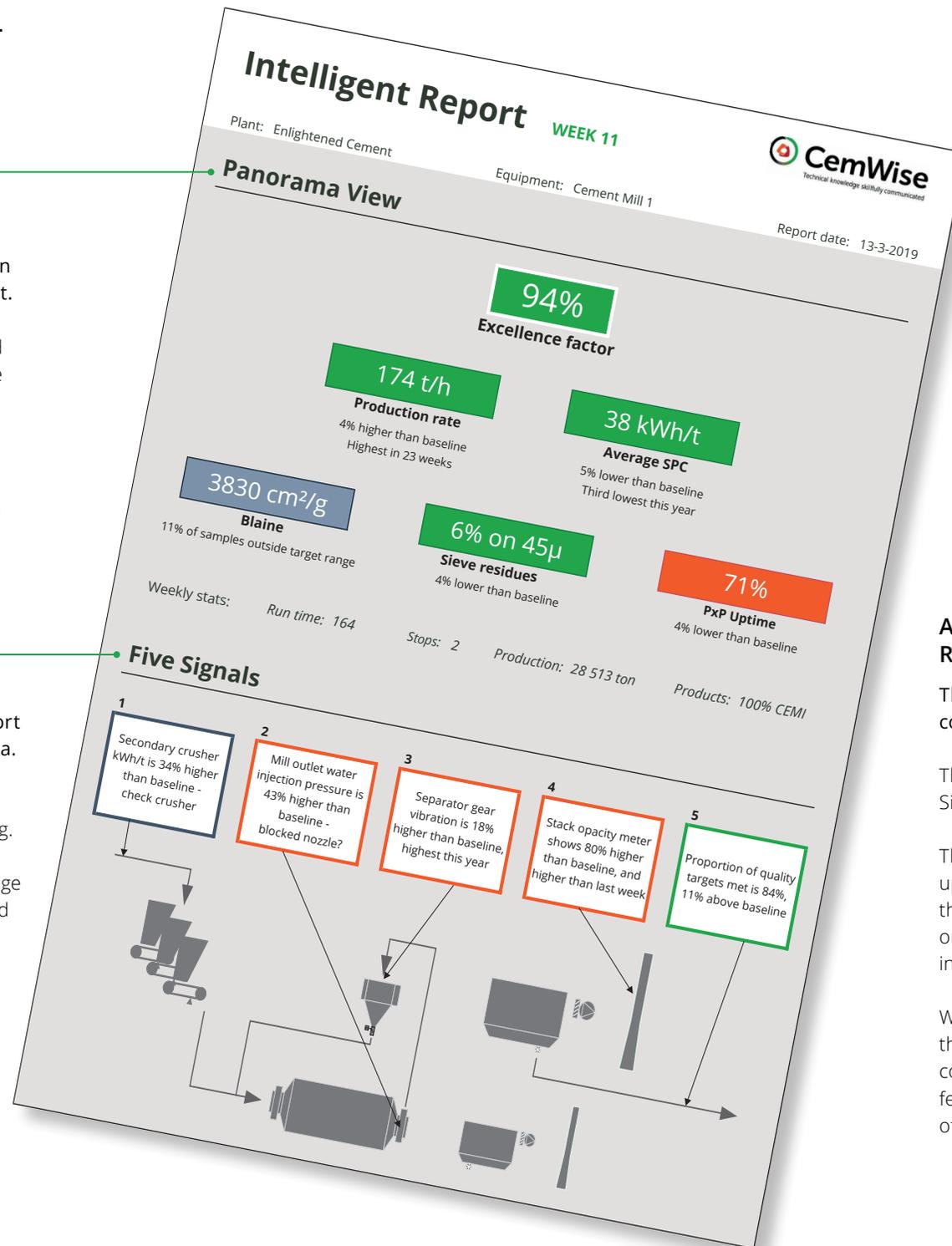
The Five Signals

With the Five Signals, the Intelligent Report zooms in on the details in last week's data.

The Signals are often early indicators of equipment failures or process shortcoming.

Dealing with these issues at their initial stage will save money, minimize costly unplanned downtime, make effective overhauls possible and optimize operation.

But the Signals may also indicate beneficial operating conditions, where a better understanding of the underlying connections can improve operational stability.



Analysis and Recommended Follow-ups

The Intelligent Report is a tool to support continuous improvement on the plant.

The analyses on page 2 closes in on the Five Signals and their significance.

This leads to a list of Recommended Follow-ups on page 3. Such Follow-ups may be in the shape of an action to rectify the issue, or they may be a next step for further investigation.

Whenever there is doubt about something, the CemWise experts are there to be consulted. Cemwise also keeps track of the feedback from the Follow-ups, to make use of this information in future analyses.

INTELLIGENT REPORT SERVICE SUBSCRIPTION

On most cement plants huge amounts of data gets collected from equipment operation. This data contains valuable insights on equipment and process operation. But often these insights are not harvested systematically for their potential to optimize performance.

The Intelligent Report Service puts the operating data from cement plants to good use. With the Intelligent Reports in hand, cement plants get data insight integrated with the expertise and guidance from highly competent experts in cement to:

- know limitations and possibilities
- operate in the sweet spot of the most profitable with the least environmental impact
- plan and coordinate well in advance
- reduce costly unplanned shutdowns
- reduce expensive urgencies

Clear prioritization

Skillful communication is the way to gain thorough understanding of an issue, its causes and consequences. It ensures that relevant information is heard.

But skillful communication is also the way to make new understandings useful. By communicating their significance seen from the plant perspective, it facilitates a clear prioritization among the many possible issues in daily plant operation.

In CemWise, it is our trademark competence to always take great care explaining why something is important and how it can be handled most practically.

Continuous Improvement

The Intelligent Report Service champions the good habits of a proactive mindset.

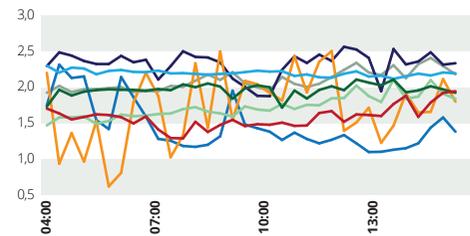
The weekly zoom into Five Signals is a one step at a time approach to gradually sort out the issues and improve performance layer-by-layer.

When a common understanding of causes and consequences exist, it encourages people to align their efforts and pull in the same direction.

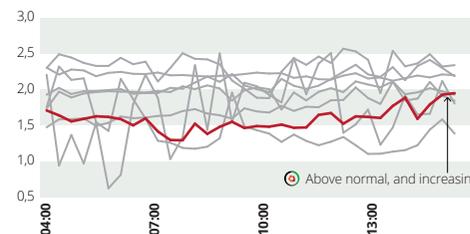
The steady support of the CemWise experts serves to push the determination to keep trying, also when the initial results of a proposed solution are not as expected.

DATA DRIVE YOUR DECISIONS

Plant view



CemWise view



The Intelligent Report Service is a strong supplement to the clear decision-making that drives operational excellence.

CemWise tightly knits together advanced data analytics with the knowledge of highly competent experts on cement manufacturing processes and equipment.

Combining it with the understanding of the equipment gained from the initial onsite audit, it becomes possible for CemWise to make an expedient identification of the developments in the weekly data that matter the most.

Data analytics, expert knowledge and a profound understanding of the equipment in question allows CemWise to see through the noise of far too much information.

SUBSCRIPTION PACKAGE

- Initial onsite Audit
- Weekly Reports
- Quarterly Status Reports
- Yearly Review

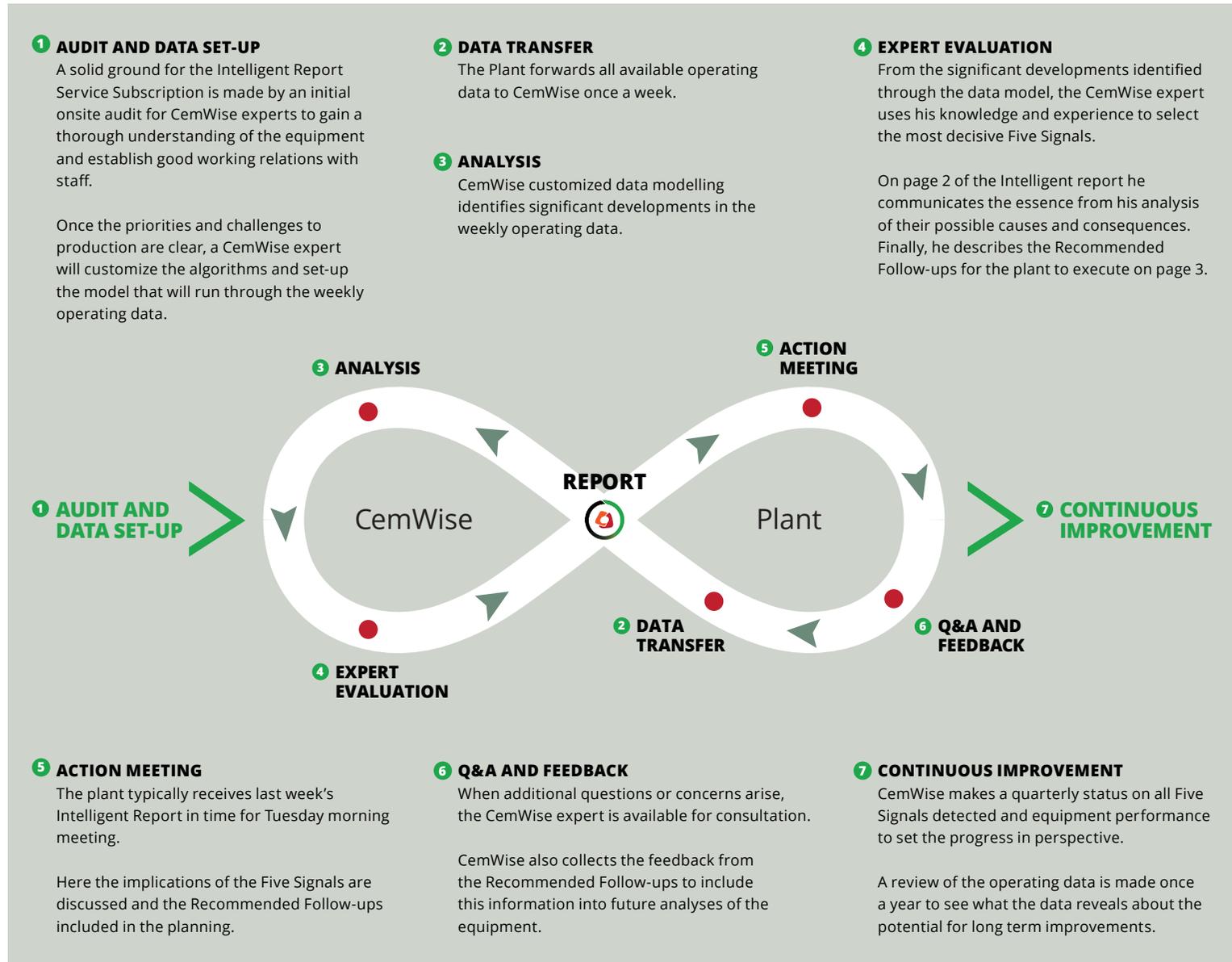
Main Equipment range

CemWise offers the Intelligent Report Service Subscription for individual main equipment:

Raw mill • Pyrosystem • Coal mill • Cement mill

The Intelligent Report Service can also be bundled for a complete production line.

HOW IT WORKS



ABOUT US

CemWise is a consulting company with deep roots in the cement industry. The company was established in 2017 and specializes in providing technically founded support to cement plant staff, management and investors.

Our experts are profoundly knowledgeable in their respective fields of process, quarry, quality, electrical and mechanical equipment and maintenance. They have many years of experience from both plant operation and equipment engineering in all kinds of conditions on cement plants around the world.

CemWise trademark competence is the ability to communicate skillfully. Our experts put themselves in the client's shoes to consider available options, and they are dedicated to make plainly stated recommendations that are useful and will support the implementation.

The CemWise spirit is to bring forth knowledge and clarity. Before solutions are recommended, CemWise always turn the issues and their possible causes and solutions in and out many times. This is to ensure that what is recommended is the best solution, not just technically, but also considering the clients situation and targets.