

Client:



Kategorie: Production control center.

## Control center in cement plant put in position for the decarbonization



The new control center at Heidelberg Materials' Geseke site is ideally equipped for the decarbonization course that has been initiated: Ergonomic furniture, flexible visualization options, and the control room management with MultiConsoling® technology create the necessary conditions for monitoring the processes of additional equipment on the premises of the cement plant as well.

A long row of work tables, 20 monitors on them, each displaying a different process flow. In front of them: two control station operators who have a daily "race" on their office chairs along the phalanx of screens.

### Outdated control center with far too many monitors

"We had a completely outdated control center with far too many monitors, rooms that were not air-conditioned – almost like an office workstation multiplied 20 times," reports the man who supervised the control center project at the Geseke cement plant. For Stefan Naber (Operations Manager Production)), one thing was certain: The visualization options in the control room were already insufficient for the current process control. And: "We couldn't even set up as many screens here as we'll need in the future to visualize the new systems."

## Perfect prototype already in operation for colleagues

For the project manager, it was quickly clear what the ideal control center should look like and what it should be able to do. Just two years earlier, the Heidelberg Materials colleagues at the Ennigerloh site had put the perfect prototype into operation – equipped and installed by Jungmann Systemtechnik. “We spoke to our colleagues on site and received very positive feedback throughout,” recalls Stefan Naber. So the decision was easy to select the right components for the future tasks.

## Mammoth task: Decarbonization

Indeed, a mammoth task awaits the Geseke cement plant with complete decarbonization. The GeZero project, which Heidelberg Materials is launching in Geseke, will be the first to realize a complete CCS (carbon capture and storage) value chain for the capture, transport, and permanent storage of all CO<sub>2</sub> emissions at a German domestic site.

## From rock, via crushed stone and raw meal to clinker

Whether energy supply, pressures, bearing or shell temperature, whether the processing of rock into crushed stone in the so-called crusher or the burning of raw meal into clinker in the rotary kiln – the new control station now uses innovative technology to monitor all this. A modern large screen wall, which can be controlled conveniently and efficiently thanks to the flexible KVM system MultiConsoling®, in combination with selected sources on the workstation monitors, replaces the formerly seemingly endless column of screens.

## Faster and more secure thanks to optimized overview

Stefan Naber: “The overview has improved enormously. We receive automated messages. In the event of a warning, the corresponding application is switched on immediately.” The JST CommandPads® also contribute to this optimized overview; touch displays with which all sources of the control station can be conveniently called up or, for example, alarms can be quickly confirmed.

Ergonomic control room consoles whose height can be varied at the touch of a button are also among the equipment features, such as the OPAL X11®. The ceiling sail scores points not only in terms of lighting but especially with regard to room acoustics.

## "The elders were a little skeptical at first"

Project manager Naber is positive about the acceptance of the new installation among the shift workers

from the control center: "The older ones, who had already been working with a grown structure for 20 or 30 years, were a little skeptical at first. But their doubts quickly subsided. And the younger employees were already convinced during the planning phase."

The plant manager also remembers the cooperation with the JST team very well: "The work together with JST – that went very well! The schedule was kept, requests were answered quickly, and the implementation was flawless."



**"Ergonomics, a significantly improved overview, optimizations in climate and acoustics - the control center team is convinced of the benefits provided by the new components," reports project manager Stefan Naber.**

**Rene Ventur // Volker Weimer // Eduard Reisch (from left to right)**

Control center operator Heidelberg Materials // JST Consultant  
// Control center operator Heidelberg Materials



"After our team already equipped the control station at the Ennigerloh cement plant two years ago, the extensive technical and ergonomic upgrades could now also be implemented in Geseke - a perfect basis for the emission-reducing course for the future that the company is taking with its flagship project GeZero."

**Volker Weimer**

JST Consultant

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The components used in this project:



**DisplayWall** with special S-PVA panels for reliable 24/7 operation - optional with proactive alarm function



**MultiConsoling® System** – complete control room system for workplace, monitor wall and other systems



**myGUI® user interface** - in the intuitive 3D design of your control room for maximum user comfort



**Stratos X11® control room desk** – optional with height adjustment and proactive AlarmLight system



**Controller control room chair** - optimized for 24-hour use

**Planning /3D planning** – architecture, ergonomics and technology from a single hand

**OPAL X11®** – acoustic ceiling sail – for optimization of sound level and lighting

**Surrounding furniture** – individually manufactured solutions “Made in Germany”

**JST CommandPad®** – efficient system control at the touch of a finger

**ControlRoom-Automation** – secure and fast processing of alarms

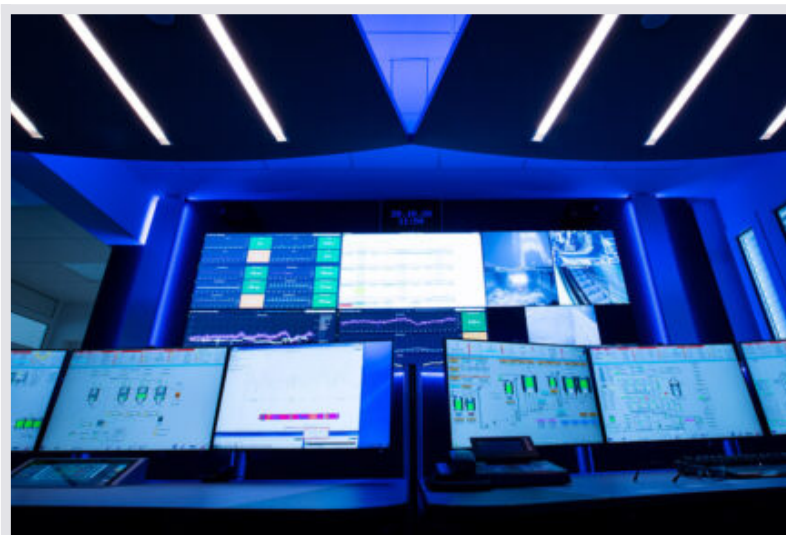
**AlarmLight** – safe, visual alarm detection

**Audio system** – for acoustic signals and alarms

**PSM Proactive System Monitoring** – monitoring of all devices based on permanent status and diagnostic data

## **Other projects with a similar task**



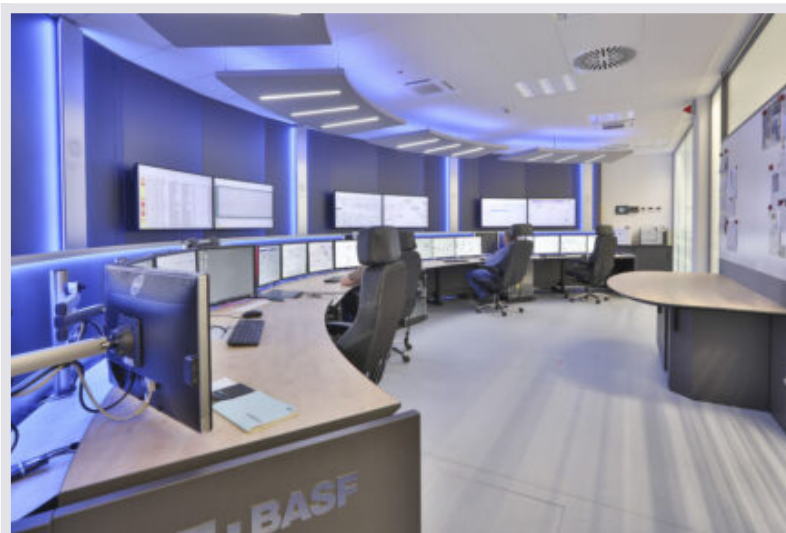


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