

Client:



Kategorie: Switch room, Critical infrastructures.

Energy supply: Overall concept for control room of thermal power plant



JST control room concept: The control room of the Dresden thermal power plant "Nossener Brücke", whose beginnings date back to the 1990s, has been "completely overhauled", so to speak. The new equipment includes technology, ergonomic furniture and visualization solutions. Only the room-defining mosaic wall has remained. It reflects the entire layout of the power plant and serves as a control room backup. Important data can be read off there and prioritized processes can be controlled.

A control room from the 90s: Brown needle felt flooring, antiquated furniture and aging technology that lacks the flexibility needed today. "We knew we could do better," says Andreas Rammer, who as project manager was responsible for modernizing the control center in line with workplace guidelines.

Already the second control center implemented with the JST team

In fact, the engineer for power plant technology had a perfect prototype for his plans: a role model in his own company. In cooperation with the Jungmann team, the expert implemented a control center at the thermal power plant site in Dresden-Reick several years ago for DREWAG, now a subsidiary of SachsenEnergie. "So we know the advantages of modern control and video wall technology as well as

ergonomic furniture,” says Andreas Rammer, explaining the favorable factors.

No standstill - control station technology keeps on developing

“We were very pleased and inspired by the complete picture in Reick. During an additional visit to JST’s control room simulator, we were then able to see how intuitive the operating concept really is,” also reports Ronny Holland (Process Control Engineering, SachsenEnergie). Together with some control room operators from the shift operation, the responsible persons convinced themselves during an on-site workshop that “there is no standstill at JST. The control station technology keeps on developing.”

"The transition has worked wonderfully"

In addition to two rooms equipped with large-screen systems and a cross-room and at the same time flexible KVM control technology via MultiConsoling®, the new control center in Dresden’s largest thermal power plant has, for example, the JST CommandPad®. The component enables delay-free and clear access to all applications. “We conveniently connect individual sources via drag & drop. This is very easy to use, and our colleagues quickly got to grips with it. The transition has worked wonderfully,” says Ronny Holland and draws a vivid comparison: “Anyone who can operate a current smartphone has no problems with the JST CommandPad® either.”

Control room before and after renovation.

Team benefits from significantly improved process overview

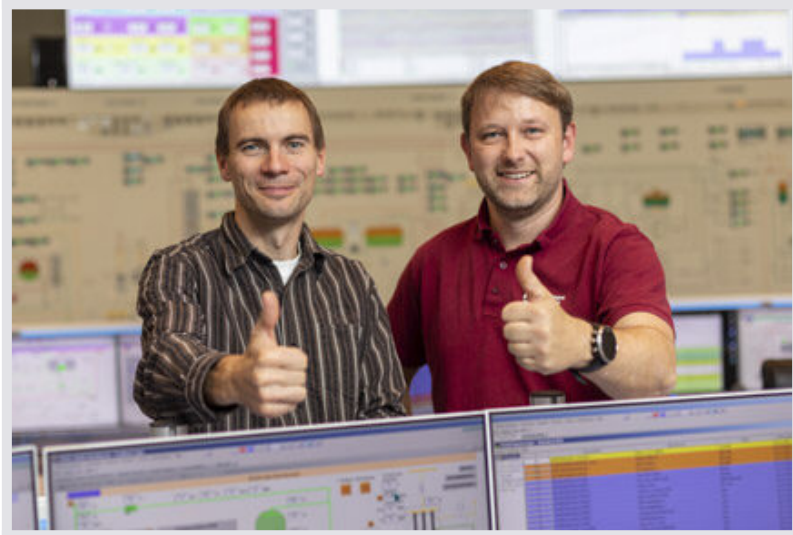
“Real added value” is further seen by the team of the largest communal utility in Eastern Germany in the new large-screen technology: Initially, a video wall with four displays was installed in the so-called engineering room and two additional screens in the main control room. The decision to upgrade, however, was made quickly. “Our team soon recognized the benefits of the improved process overview provided by the large displays and expressed the desire to increase the original two large-screen monitors to four,” recalls process control engineer Ronny Holland.

GrabberIP is the basis for strategic considerations

After the modernization, all the course has been set to further optimize the working situation for employees in the future. Project manager Andreas Rammer ventures an outlook: “Our strategic consideration of linking the two control rooms of the power plants played a role in the decision. This way, the other location would be available as a backup to access the systems.” This is made possible by the GrabberIP component, which was used by JST with this in mind.

"A total work of art in which everything fits together"

It is precisely these options that, in the eyes of those responsible for the project, make the work that Jungmann Systemtechnik does so convincing. Ronny Holland sums it up: "Personally, I like the fact that JST delivers a total construct – not just tables or computers or control engineering. It is coherent and builds on each other – a total work of art where everything fits together."



"Personally, I like the fact that JST supplies a total construct - not just tables, computers or control engineering. It's a total work of art where everything fits together. It's coherent, it builds on each other - that was decisive at the end."

Andreas Rammer (left) // Ronny Holland

Project Manager // Process Control Engineer (both
SachsenEnergie)

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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



PixelDetection® – proactive alarm software to shorten response times



JST CockpitView® – dashboard function to compile the most important systems on one monitor

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

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

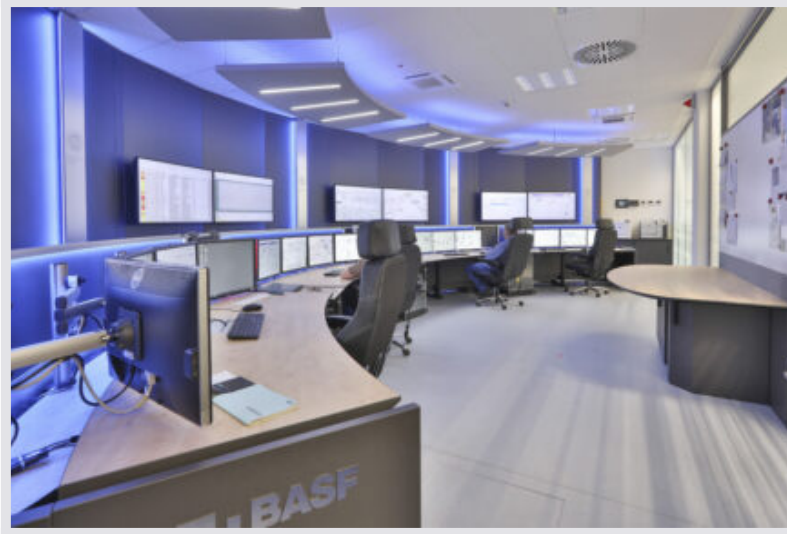
AlarmLight – safe, visual alarm detection

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

JST GrabberIP system – convenient connection of decentralized systems and locations

Audio system – for acoustic signals and alarms

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