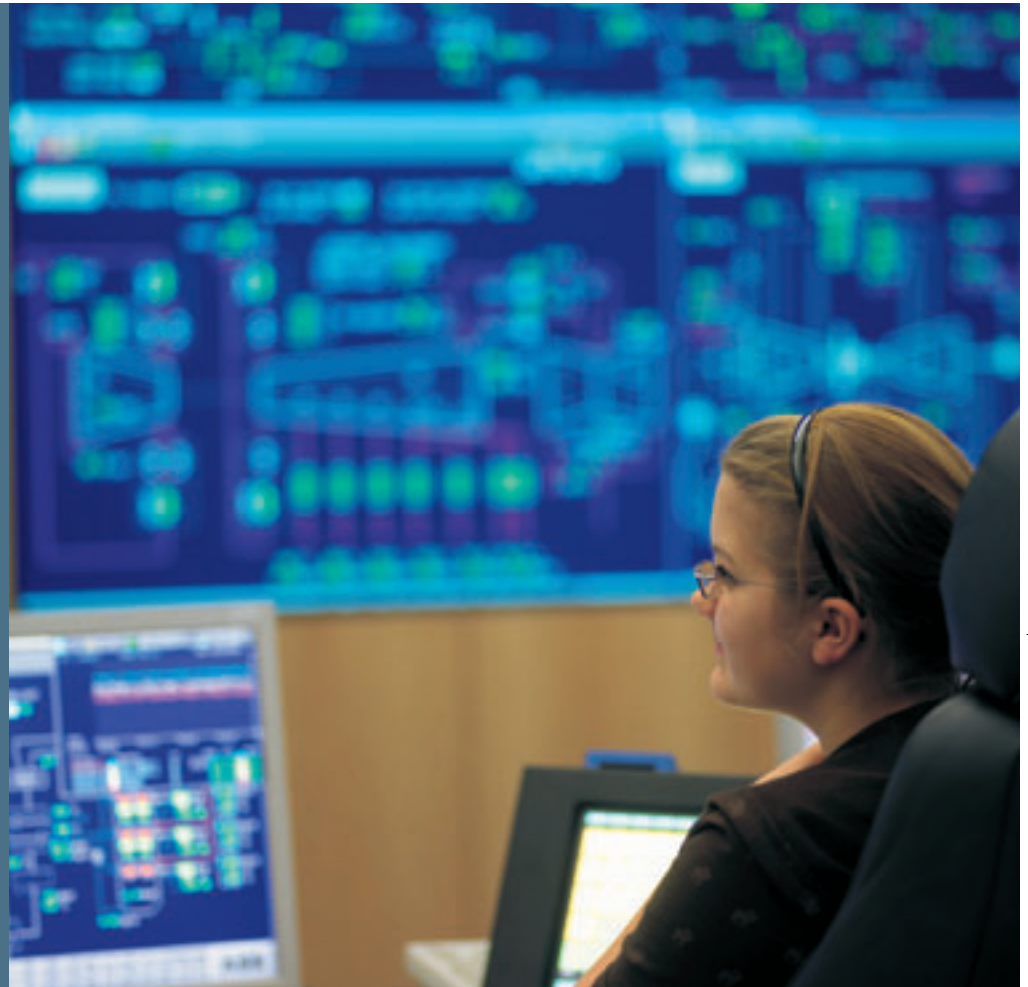


Vattenfall Europe Hamburg, Germany

Improving operational efficiency

“The Barco experts seamlessly integrated our existing software and various connections into their visualization solution. A complex, challenging job which, obviously, required a lot of know-how and expertise.”

Dieter Lühr,
Chief Plant Operation Manager



Generate electricity and heat to meet 15 % and 50 %, respectively, of Hamburg's annual needs. That's the mission of Vattenfall Europe Hamburg. To ensure continuous energy supply in its rapidly expanding market, at a reasonable price, the company makes substantial investments in its plants. When the Vattenfall central control room needed a complete refurbishment, Barco was the obvious partner. Barco provided a visualization solution that allows control room operators to oversee things better and work more efficiently.

BARCO

Visibly yours

Vattenfall's control room: screened and found fit for purpose

Vattenfall Europe Group is Europe's fourth largest generator of electricity and the main generator of heat. The central control room at the Vattenfall power plant in Tiefstack, 6 km east of central Hamburg, plays a key role in ensuring a smooth production and supply process. On a 24/7 basis, a team of three operators monitors the cogeneration power plant, the heat generation plant, the district heating network and the combined cycle plant.

Steady growth feeds need for refurbishment

"Over the past few years, Vattenfall Europe Hamburg has experienced steady growth. The more we grew, the longer the task list of our operators became," Dieter Lühr, Chief Plant Operation Manager, explains. "When the situation became unworkable, we evaluated the installed equipment and decided

on a complete refurbishment of our control room."

The challenge was twofold. "With the new control room set-up we were determined to improve operational efficiency, as we wanted to stick to a three-strong-team. At the same time, a seamless integration was required with our existing software and connections," Dieter Lühr adds. "Barco proposed an interesting mix of a high-quality visualization solution at an attractive price. The fact that Barco is a recognized brand in the market obviously influenced our decision to select their proposal."

Expertise: a distinctive Barco asset

Vattenfall Hamburg decided to install three video walls with four 50" display cubes forming a large screen of 2 m width and 1,6 m height each. The video walls are interconnected, so that the operators can view the four displays as a whole or as divided sections. In addition, Barco's solution is perfectly integrated into Vattenfall's existing



software and the various connections. "The integration was a quite complex and challenging job," said Dieter Lühr, who is full of praise for Barco's support and approach. "The Barco engineers opted for a step-by-step approach and were always ready to help whenever a problem cropped up. Throughout the implementation phase, our operators did not experience one minute of downtime."

More time and a clearer overview

The Barco solution has been operational for over a year now. All critical information – on piping systems, alarms, rated power, etc. – is being displayed in outstanding picture quality.

Dieter Lühr adds: "Thanks to the Barco video walls, our operators have a better overview and save time. They can perform many more tasks with just the three of them."

The amount of displayed information has doubled and the static information displayed on the video wall has been extended. In the past, our operators could only see if a pump was running or not whereas, now, they can also monitor smaller indicators about physical values on one, single screen. In the past they had to switch between their three big operating panels; they now have a view on all three panels, at a single glance."



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