



**Client**      **Axpo AG**  
**Baden, Switzerland**



**Industry**      Energy production, trading, transmission, distribution and end customer services

**Project**      WEY Technology powers Axpo's new Energy and Network Control Center in Switzerland.

**Client**      Axpo AG is the leading producer of electricity in Switzerland. The electricity is produced using nuclear, hydroelectric and new energy sources. Annual sales amount to 24,000 million kWh. Together with their partners, Axpo has the most extensive grid infrastructure in Switzerland. Axpo is also actively engaged in the trading of electricity on the international markets.

The continuous flow of electricity between power plants and consumers demands a near perfect management of the mains and grid power distribution network. Network Control constantly fine-tunes the balance between production and consumption. Unforeseen fluctuations require rapid and efficient responses. And when network elements fail due to any reason, they must be repaired and reconnected within seconds.

**Network control and operational management**

Axpo's main Energy and Network Control Center operates 24 hours a day, 7 days a week in Baden, Switzerland. More than 2400 kilometers and 170 substations are managed here and the on-duty engineers have literally thousands of data messages, measurements and images at their disposal at any given moment.

**Challenge**      WEY Technology was challenged was to equip the new Energy and Network Control Center with enhanced infrastructure and state-of-the-art workplaces for the network operators. The goal was to simplify access to all information sources and support the efficient evolution of workflow processes for the operators.

Solution

**One single keyboard**

Each controller can access multiple PCs and big screen monitors with just one keyboard.

**One Allocation System**

One Allocation Switch screen per workplace enables the operators' access to manifold commonly used application platforms. Shared sources such as a document visualizer, a TV and a large screen display of the control PC are all available on the operators' monitors or on the huge video wall.

**Video wall**

Axpo's diverse security and control systems have something in common: all data converges in the command area. The information must be presented and interpreted quickly, clearly and effectively. For this project, WEY deployed 16 rear-projection cubes from **eyevis**. Due to their flexibility and reliability, the projection cubes cover most requirements.

**Remote PCs for a better climate in the control center**

PCs were relocated to a computer room to reduce heat and noise radiation at the workplace. Structured cabling and the WEY WS-Remote transmit the signal between the system room and the workstations. Variation in signal strength due to normal transmission over twisted pair cables is automatically compensated for using the WEY system.



Benefits

**Expansion is possible anytime**

The modular system structure from WEY allows for easy and cost effective user-specific expansion in the future. This protects Axpo's current investments and results in lower equipment costs tomorrow.

Quotation

According to Axpo Project Leader, Peter Waldegger, the highlight of the new Energy and Network Control Center, is "that multiple systems can be operated with a single keyboard and mouse."