

ELES Elektro, Slovenia



National Power Control Center in Ljubljana

ELES controls and connects Slovenia's combined HYDRA thermal system with 15 hydro-electric, 5 thermal and one nuclear power plant, supplying all Slovenian regions and 5 large consumers with electric energy. 91 percent of the electric energy demand is covered by domestic generation with 2,400 MW production capacity, the rest is imported mainly from neighboring countries such as Switzerland, Austria, Italy and Croatia.

Barco's display wall as centerpiece in the NPCC

Operators in ELES' NPCC National Power Control Center in Ljubljana, capital of the state Slovenia, control electric energy production and energy transmission via 400 KV, 220 KV and 110 KV networks. Furthermore, cooperation with foreign dispatch centers as well as trading electric energy on spot markets are carried out in the NPCC. Operational efficiency and highly reliable supply of electric energy are NPCC's main objectives.

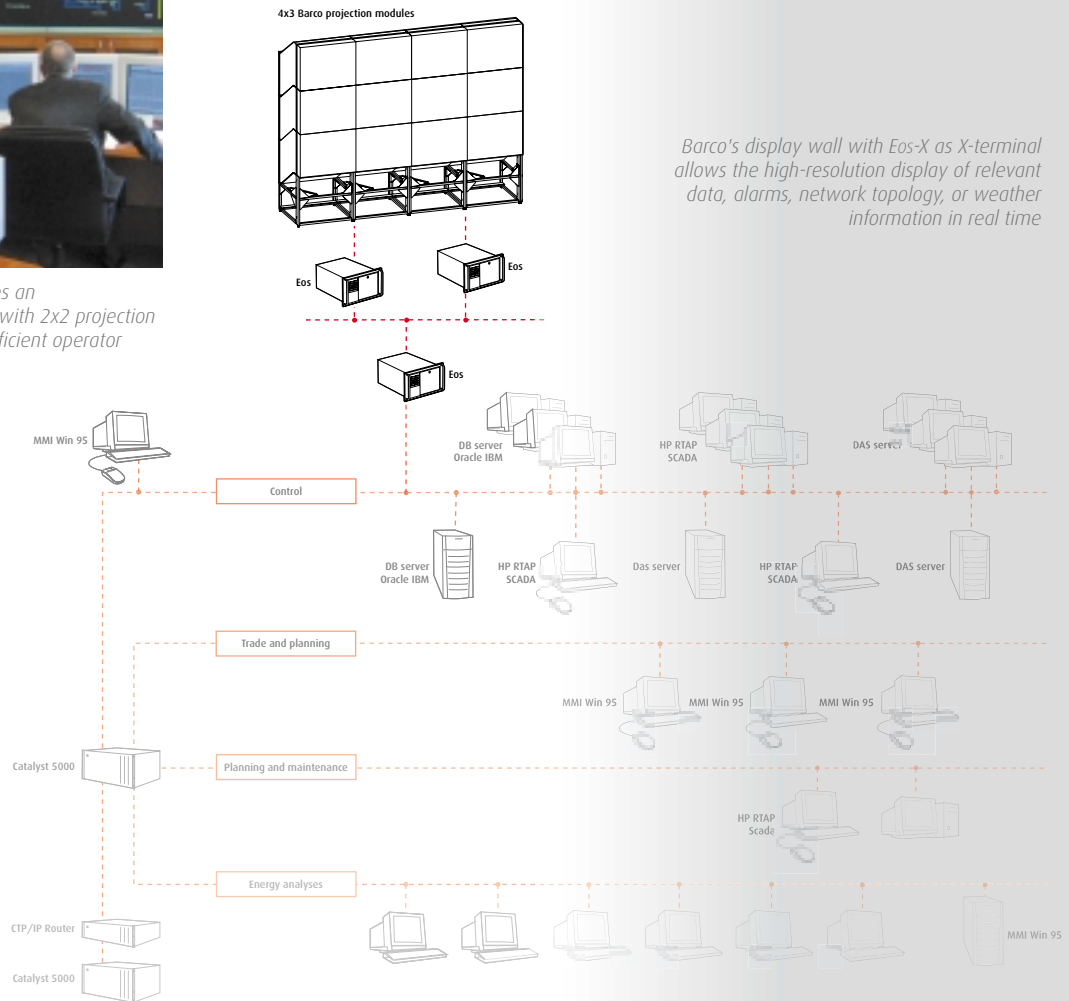
Since 1996, ELES operates a Barco display wall in the National Power Control Center. A technology upgrade was implemented in 2001 by installing a Barco OverView MP50 display wall, comprising 4x3 projection modules replacing the OverView-ML. By displaying synoptic information on the display wall, operators and dispatchers are able to monitor all incidents in Slovenia's entire electric power system in real time. All potential system failures can be detected by clear color coding of network connections. Weather information from satellites allow operators and dispatchers to intervene instantly.

BARCO

Visibly yours



ELES' training center includes an OVERVIEW MP50 display wall with 2x2 projection modules for realistic and efficient operator training



Barco's display wall with Eos-X as X-terminal allows the high-resolution display of relevant data, alarms, network topology, or weather information in real time

A multitude of operator workstations on which dedicated tasks are performed enable efficient management and handling of captured data, i.e. via DAS servers, HP servers for real time management, IBM servers for real time data filing, SQL-DB servers, HP X-terminals for MMI, and Barco's display wall with Eos-X as X-terminal for the synoptic display of relevant data, alarms, network topology, or weather information in real time.

Additional PCs for dispatchers illustrate geographical positions of atmospheric discharges (lighting) in Slovenia and in neighboring areas.

On the same premises, ELES operates a separate training center for operators and dispatchers with real time and simulated data on a Barco OVERVIEW MP50 display wall in a 2x2 configuration. At the back-up Emergency Control Center Barco's OVERVIEW-ML display wall is installed in a separate self-sufficient facility.

Customer satisfaction

ELES's selected Barco because of the high reliability and excellent display quality of its OVERVIEW display walls. The OVERVIEW MP50 provides outstanding brightness and color saturation, thus offering operators the best possible display quality for all schematics, network topology and geographic information.

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