

Austrian Railways, ÖBB Österreichische Bundesbahnen



Bahn wirkt.

Energy distribution and infrastructure monitoring in regional control centers

In 4 Regional Control Centers West (Zirl near Innsbruck), Middle (Attnang-Puchheim), South (Villach) and East (Vienna-Meidling), ÖBB monitors and controls the entire energy supply for trains, as well as the major infrastructure in tunnels and train stations all over Austria. Fast and efficient problem solving is of utmost importance in order to ensure continuous reliability and timely train operation.

Second generation Barco display walls at ÖBB

Already in 1996 and 1997 ÖBB installed Barco's OverView-mL Display Walls in all 4 Regional Control Centers. Operators can view graphical information which is continuously updated on the display walls: From an overview of the entire country, operators are able to zoom into all relevant details in real time, thus getting more and more details of the energy distribution network and infrastructure. This enables operators to intervene instantly, ensuring a nearly uninterrupted operation.

In parallel to further innovations to the automation systems in 2002 and 2003, ÖBB replaced the display walls in all 4 Regional Control Centers by Barco's latest OverView mP50 display walls. In order to respond to the highly demanding requirements for the display of graphical information, all display walls were expanded with additional projection modules. Increasingly, ÖBB's Regional Control Centers take over additional tasks such as event driven video monitoring of train stations, platforms, elevators and escalators. Moreover, the Regional Control Centers act as backup for ÖBB's central energy dispatching center in Innsbruck.

BARCO

Visibly yours



24/7 operation

Two operators per shift control ÖBB's entire energy supply in 24/7 operation. The Regional Control Center monitors and controls the 16 2/3 Hz supply for trains as well as the 50 Hz supply for all crucial systems in tunnels and other infrastructure systems. High-resolution large-screen information in an ergonomically designed environment is therefore of crucial importance. Barco's display walls added value is that they are functionally complementary to ÖBB's automation system and operation.



Integration with ABB automation system

The display walls are integrated in the automation software MAS-3002 developed by ABB Vienna Important features of the software are the ability to display all relevant information at a glance, from an overview of the entire country down to smallest details of the energy network, just by mouse interaction. Convenient zoom functions provide the possibility to view additional information at every zoom level, in real time. All necessary interventions can be carried out directly on the display walls. In response to medical and ergonomic requirements, the pictures on the display walls have the same color codes as the ones on the operators monitors.

Maintenance by ÖBB

In order to ensure high availability of the Regional Control Centers, ÖBB and ABB are taking care of the maintenance of the display walls. For instance, ÖBB utilizes Barco's Color Adjustment and Service Tool CAST, to carry out adjustments of the display walls.

Ref. no. R599707 September '03

Barco Control Rooms is an ISO 9001 registered company.
The information and data given are typical for the equipment described. However any individual item is subject to change without any notice.
© September 2003 by Barco

Barco Control Rooms - Belgium
Noordlaan 5, 8520 Kuurne
Phone (32) (56) 36-8211
E-mail sales.bcd@barco.com

Germany Phone (49) (721) 6201-0
USA Phone (1) (770) 218-3200
Brazil Phone (55) (11) 3842-1656
Japan Phone (81) (3) 5762-8720
Hong Kong Phone (852) 2397-0752

BARCO

Visibly yours