

North Delhi Power Limited, India

Reducing reaction times and operational cost

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North Delhi Power Limited (NDPL) is a joint venture company of Tata Power and the Government of Delhi. NDPL serves a population of about 4.5 million people spread across 510 sq kms. It has a registered consumer base of about 1 million, a peak load of 1150 MVA and an annual energy consumption of around 5900 MUs. The company became operational in July 2002 and has initiated efforts to improve the power distribution in North and North West Area of Delhi.

In the beginning of 2008, NDPL inaugurated a new Center for Network Management. The center was designed to host the most advanced electrical automation systems today and put NDPL at par with some of the world's most technologically advanced power distribution utilities. In the new center, Barco's large-screen visualization technology takes up a prominent place. The recently installed video wall gives NDPL operators a real-time view of the entire network status.

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The Center for Network Management

NDPL chose a centralized control system, which needed to enhance the power system's real-time decision making process. The Center for Network Management includes state-of-the-art electrical automation systems like SCADA (Supervisory Control and Data Acquisition), EMS (Energy Management System) and DMS (Distribution Management System).

All these systems are presented on a 67", SXGA+ Barco video wall in a setup of four by two cubes. The video wall is designed for use in a 24/7 operational environment and includes a redundant lamp system, which automatically activates a second redundant lamp upon lamp failure. The video wall has been installed with an 8 degree curve, which gives operators a better ergonomic view of all parts of the video wall screen.



The NDPL Network Management Center receives information from all grid stations and distribution substations for complete real-time control, supervision and monitoring of network health and load distribution. The system has allowed the projection of the entire electrical network and land base (GIS-Geographical Information System) and historical data archives onto the operator's desktop.

The complete network at a glance

"The Barco rear-projection video wall presents NDPL operators with all critical information at a single glance," says Sanjay Kumar Banga, Head of the NDPL Automation & Network Engineering division. "This significantly reduces the reaction time in case of incidents. The time needed to implement remedial actions post faults has reduced drastically, which has also decreased outage times and energy supplied to the customers. This way, Barco's visualization technology enables NDPL to offer the highest quality of customer service by efficiently reducing its operational costs."

The SCADA system presented on Barco's video wall is the cornerstone for most of the automation functions like sub station automation, distribution automation and outage management system. Some of these systems have been implemented in order to make NDPL a single cohesive and automated utility, thereby helping to serve the end customer in the best way possible.

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Contact Barco
 Europe, Middle-East, Africa: +32 56 26 20 09
 USA: +1 678 475 8000
 Latin America: +55 11 38421656
 Japan: +81 3 5762 8727
 China: +86 400 88 22726
 Or mail to sales.utilities@barco.com

