

LAYING THE FRAMEWORK FOR EXCELLENCE DELHI METRO ACHIEVES SYSTEM RELIABILITY

Honeywell constructed an all-encompassing, advanced management system for the Delhi Metro Rail Corporation. It centralizes monitoring and control of all electrical, ventilation and air-conditioning systems under both normal and emergency conditions in all stations.

Case Study





The Delhi Metro Rail Corporation is striving for world-class safety, comfort and customer satisfaction. At the same time, they are working to install metro networks across the entire city of Delhi by 2021. It's already the world's 12th largest metro system and caters to 2.4 million riders daily. A system of that size needs a strong solution and Honeywell was fast to deliver. The first-class, affordable management system helps reduce operational costs, energy consumption and operational manpower – all while assuring round-the-clock system monitoring and control.

The Needs

Ability to monitor and control Ability to monitor and control all systems from a single user interface and a central location.

Save energy, increase productivity, and reduce maintenance.

Oversee all electrical, ventilation and air conditioning systems under both normal and emergency conditions in all stations.

Provide complete installation and ensure the Honeywell solution works with Delhi's other third-party systems.

The Solution

Honeywell delivered an encompassing solution with a number of Tunnel Ventilation Systems (TVS), Environmental Control Systems (ECS) and a customized graphical interface.

For the Tunnel Ventilation System (TVS), Honeywell opted to install a main system heart, ventilation control panels, local control panels for hardwired connectivity, temperature and pressure sensors, and an Operational Command Center (OCC) system.

The Environmental Control System helps operators manage an extensive range of conditions within the system, thanks to the pressure sensors and temperature transmitters located throughout the stations.

The customized graphical interface lets operators control and assess the entire system from one point, reducing the need for additional manpower and minimizing maintenance.

The successful delivery of this project has provided the customer with a road map that can be used when establishing new Metros in other cities in India.

The Benefits

- Operational costs for the Delhi Metro Rail Corporation are significantly lower.
- All services are monitored and controlled constantly in a central location, which saves maintenance workers valuable time.
- Maintains the appropriate temperature and humidity level to achieve a comfortable environment inside the station for commuters.
- Saves the metro energy by managing the chiller load with respect to the external climate.
- Delhi is able to make continuous improvements by analyzing logged-in data.
- The necessary rail safety certificate and DFS (Delhi Fire Service) occupancy certificate were obtained, giving riders a sense of ease and building trust toward the company.

For more information

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XX-XXXXX | PM | 01/16
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