



# SCHAEFFLER

## Shedding Light on Sustainability

### Schaeffler and Eetamax Forge a Greener Path Forward using elite-dali and Tridium's Niagara Software.



Project : **Schaeffler India** Site : **Hosur**  
Project Completion : **12-Dec-2018.**

#### Client Overview :

Schaeffler Group, committed to sustainable practices, operates manufacturing units in three cities in India. Their dedication to energy efficiency and conservation laid the foundation for a partnership with Eetamax.

#### The Challenge :

Eetamax, armed with over two decades of experience in the lighting industry, identified an opportunity to enhance Schaeffler's sustainability efforts. Although not initially part of the Request for Quotation (RFQ), Eetamax proposed a comprehensive solution involving the replacement of traditional light sources with energy-efficient LED luminaires and the implementation of a Digital Addressable Lighting Interface (DALI) based lighting management system (LMS).

## The Solution :

The project aimed to replace 252 traditional luminaires with 120W LED luminaires, achieving a desired illumination of 300 LUX operating 24 hours a day. Beyond a simple retrofit, Eetamax went a step further by integrating a DALI-based LMS offering remote monitoring, constant LUX controls using light measuring sensors, automated fault detection, energy consumption and saving reports, and email alerts for faults.

## Technologies Used :








- Eetamax LED Luminaires.
- DALI-based Lighting Management System.
- Meanwell DALI Certified Ballasts.
- Tridium's Niagara Software.
- LEAP's elite-dali DALI driver.



## Project Implementation :

Understanding the critical importance of a live demonstration, Eetamax showcased the proposed solution at the Schaeffler India - Hosur Plant. The detailed evaluation convinced the plant team, leading to the inclusion of the dynamic daylight harvesting controls in the final project.

## Lighting Management System (LMS) Features :

-  Remote Monitoring : Real-time visibility for proactive maintenance.
-  Constant LUX Controls : Automated dimming for energy savings.
-  Automated Fault Detection : Minimized downtime and manual efforts.
-  Energy Consumption Reports : Detailed tracking for savings analysis.
-  Email Alerts : Immediate notifications for system irregularities.

## Return on Investment (ROI) :

Schaeffler's decision to implement the lighting management system proved highly beneficial. They achieved a remarkable return on their investment in less than 11 months. This rapid ROI was a testament to the effectiveness of the solution, as it not only reduced energy consumption but also enhanced operational efficiency and validated the financial viability of sustainable practices.

## Conclusion :

Schaeffler's collaboration with Eetamax stands as a beacon of success in the realm of industrial lighting solutions. The integration of cutting-edge technology enhanced energy efficiency and demonstrated Schaeffler's commitment to sustainable and responsible manufacturing.

This success story showcases the positive impact that strategic partnerships and innovative solutions can have on both the bottom line and environmental stewardship.

As Schaeffler continues to illuminate the way forward, the collaboration with Eetamax serves as a shining example of what can be achieved when industry leaders prioritize sustainability in every facet of their operations.

