



Study Case

Aparator's smart office building

Location | Ostaszewo near Toruń, Poland
Philips Lighting | DayZone, PowerBalance, StyleID, LuxSpace, Cabana, TBS260, Philips Dynalite (integrated with Somfy animeo and horizontal facade blinds).

PHILIPS
dynalite 
dimension

Light Balancing
PHILIPS | **somfy**



"Our decision to choose an integrated Philips and Somfy system was based mostly on confirmed data showing how the technology could help us reduce our energy consumption costs. Although the system is highly advanced in terms of technology, it is easy and intuitive to use. What's more, we're fully satisfied with the lighting comfort and flexibility offered by the solution, which is suited to our needs. I must also say that with the professionalism of Philips and Somfy engineers, our cooperation during the implementation process was successful!"

Janusz Niedźwiecki, Management Board President of Apator S.A.

Apator's smart office building



Project details

Project Owner:

Apator S.A.

Project:

Lighting System for a Smart Building

Location:

Ostaszewo near Toruń

Lighting Solutions:

DayZone, PowerBalance, StyleID, LuxSpace, Cabana and TBS260 fixtures

Control systems: Philips Dynalite and Somfy animeo with horizontal facade blinds

Implemented by:

Philips Lighting Poland S.A. Team

Robert Karwacki, Control System Designer

Radosław Węklar, Lighting Designer

Introduction

Apator S.A.'s fast growth provided an impulse to relocate its production divisions, management office as well as its sales and administration departments to the Pomeranian Special Economic Zone in the town of Ostaszewo near Toruń. A new facility covering an area of approx. 16,000 sq m has been constructed in the area of the zone. The new factory is equipped with a number of modern technology, automation and production process management solutions. The concept of Apator S.A.'s green smart office building was based on the Philips Dynalite control system, integrated with the Somfy animeo IB+ blind control system, as well as energy-efficient LED and TL5 lighting solutions.

Solutions

The project was to prepare a comprehensive conceptual design for lighting and systems for artificial light and daylight control. The project owner was also interested in reducing its energy consumption (by approx. 30%) compared to the original design, using the daylight in the office rooms and ensuring regular lighting conditions for its office personnel. Since users can manually control the lights in their working areas, they can adjust the lights to their needs. At the same time, the selected light levels are automatically maintained. The office rooms have been equipped with an automatic lighting control system using

motion and light multisensors. The integrated Philips Dynalite i Somfy animeo system ensures that the daylight in the office rooms is used appropriately, by creating the right light and thermal conditions in the rooms (saving the energy consumed by the air-conditioning system by letting sunlight in or keeping it out for, respectively, extra heating or insulating purposes). In addition, light intensity in the room is measured automatically and the In the conference rooms, the control system allows for choosing a pre-set scene with features such as automatic setup of a project screen or lowering the roller blinds. A systems of motions sensors have been installed on the circulation routes. If no motion is detected, the system will dim the lights to a pre-set level and turn off the light after a pre-set period, thus increasing the users' visual comfort.

Advantages

The implementation, in Apator S.A.'s green building, of the Philips lighting system integrated with the Somfy animeo system is an example of successful cooperation from design to completion. Precise definition of the project assumptions and close cooperation throughout the project allowed for reducing energy consumption as soon as during the construction and subsequent use of the building. Also, modern lighting



solutions have been implemented which reduce CO₂ emissions, which was in line with the project owner's environmental strategy and its policy of protecting the environment. The company's personnel were provided with a high degree of visual and thermal comfort, improving their working conditions and creating a friendly working environment.

The intuitive and easy-to-use systems make the new technology easy to use. Additional savings were generated by using a technology that adjusts the lights to the users' needs, thus ensuring regular light levels for the workstations and circulations routes in the building.

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