

Case study E.ON

Location Philips Lighting Santander, Spain CoreLine recessed, Dynalite control systems







"Our aim was to fit our offices in Santander with the most advanced, most efficient and best quality lighting technology on the market. Supported by Philips, we have taken a step forward by configuring the workspaces of tomorrow."

Ramsés Garrote, E.ON Project Manager



Maximum energy efficiency through an ESCO model thanks to LED lighting and advanced control systems



Project info

Customer E.ON Location

Santander Spain

Philips products

- CoreLine recessed
- Dynalite control system

Project manager

Ramsés Garrote, E.ON Project Manager

Results

• Maximum cost savings on energy and maintenance

 Optimal lighting which creates an exclusive and extremely pleasant environment with excellent uniformity to improve the well-being of students and employees

Background

E.ON is an international power and gas company - generating electricity, and retailing power and gas. It's aim is to deliver cleaner and better energy by offering innovative energy services and technologies tailored to meet his customers' needs, and help people become energy fit.

The challenge

E.ON Spain moved their head office from its historical headquarters in Santander's city centre, to the new PCTCAN Cantabria business park. Their aim for this building was for great design and appearance, but also for maximum energy efficiency in its facilities. To accomplish a project entirely with LED technology instead of conventional lighting, without increasing the cost of investment, the multinational decided to implement an energy service model (ESCO) in its building. This model is based on applying energy-saving measures, and lighting is the perfect partner for this, thanks to its high potential for reducing energy consumption, the ease of updating the existing systems and the drastic reduction in maintenance costs that can be achieved.

The solution

The use of LED luminaires combined with advanced control systems made it possible to achieve energy savings of more than 70% compared with other types of luminaires and more basic control systems. The building benefits from the latest developments in LED lighting; recessed luminaires and downlights for illuminating open spaces, offices, communal areas and toilets. All of the provisions of the latest lighting standards have been firmly fulfilled in terms of lighting levels and quality, uniformity of light distribution in rooms and glare limit values according to the activity. They easily exceeded the minimum requirements for lighting control and enable customised atmospheres and maximum energy savings. These solutions enable maximum use of natural light and rationalised, ergonomic use of artificial light through presence detection, dimming and switching off lighting in accordance with criteria for safety, security, activity and comfort.

Benefits

Philips offered an extended guarantee service for the lighting solutions used, over the entire period of the agreement made between the end user and the ESCO. In this project, both the customer and the energy service company can use the installed management software to check the realised savings whenever they like. To the great satisfaction of E.ON, energy savings of more than 83% are being achieved, leading to reduced energy bills. Furthermore, this has resulted in a significant reduction in CO_2 emissions, making this building the first in the region to be awarded a Class A energy certificate rating. "In view of the results, E.ON Spain is going to work on installing LED technology with controls in its other buildings", commented Ramsés Garrote, E.ON Project Manager.





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