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Tailor made lighting control

Back in 2013 NTK Europe's management team decided to undertake a comprehensive renewal of corporate standards, defining their new work environment. Lighting was an essential part in this plan.



Helvar was invited to design the new lighting control and management system. "The lighting design", says Dr. Marco Colombo, CEO of NTK Europe, "is part of a larger plan, thought to create a work environment that is already in line with what could be the standard in 2020."

The lighting control system was designed to be integrated with other automations and the company had two main

requirements for the new lighting: reduce operating costs and increase the working comfort of employees.

Marco Colombo continues: "Cost is always an important issue, so all investments exceeding five years certainly will be considered carefully, but we are fully satisfied with the Helvar solution. Using the latest LED technology and Helvar's lighting control system, we have been able to take



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advantage of natural light from outside to complement the optimised lighting inside”.

THE LIGHTING CONCEPT

The lighting project managed by Alessandro Baresi, kicked off from a preliminary study of the economic cost of ownership with a target to achieve efficiency and sustainability. NTK made the decision to use high efficiency dimmable LED light sources controlling them with a lighting control system.

A pilot project was set up and work was carried out at the newest NTK plant. The results from the project were more than satisfactory, so NTK decided to move on to other areas and the lighting update was also rolled out through the entire headquarters. The new lighting system has proven results on how it can be both more effective and efficient in terms of energy savings and visual comfort.

NTK – A COMPANY WITHOUT LIGHT SWITCHES

Both plants are split into two areas, manufacturing spaces and offices. These areas are managed with a single centralised DALI system which is headed by Helvar routers - 910 DIGIDIM ROUTER and 905 DIGIDIM ROUTER – the system having control of all luminaires and utilising the

features of constant light and presence detection sensors. The lighting can be controlled in an efficient manor in all production and office environments. As the end result NTK became a company without light switches. Here everyone can enjoy the same visual comfort and work in an environment that offers the highest standards in term of quality light.

Helvar's lighting control system communicates with the alarm system. When the alarm is switched on at night the control unit automatically sends a message to switch off the lighting throughout the site. The same automation happens in the morning when the alarm is switched off, the lighting will be turned on. This shows that Helvar solution is not a stand-alone solution, but it can communicate seamlessly with other systems. After installation a training programme was put in place for the maintenance manager enabling him to run and manage the lighting control system.

Alessandro Baresi says: "Using high performance LED luminaires alongside Helvar's lighting control system has given us the ability to control the lighting to the specific needs of each environment, not forgetting the visual comfort, accessible to each employee”.