

PHILIPS

Pila



VTL 5



Case Study

Lighting system modernization in one of the **Philips Lighting** factories in Pila

T5 AMALGAMAT

HQR 3009

HQR 3004

LOCATION
Pila, Poland



Introduction

Philips Lighting Poland in Pila is the biggest lighting manufacturer in the region. The enterprise has a significant influence on the economic development of not only the town of Pila, but also the entire Wielkopolskie Voivodeship. It employs 3 thousand people. It ranks as the 6th biggest employer in Wielkopolska, and as the biggest in Pila. This industrial center has substantial influence on the global functioning of the Philips Company and its contractors. Conducted modernization of one of the factories, which belong to the Company is the best example of efficient linking of technology with savings.



“ The operation of Philips Lighting Poland as part of the international structures of the concern means, that if we want to be an example for other organizations, we must prove, that we manufacture not only high quality products, but also effectively manage the costs.”

Marek Huzarewicz
CEO of Philips Lighting Poland SA



Challenge

The main assumption of the lighting system modernization in Pila factory was the optimization of already functioning infrastructure, including 1280 separate fittings equipped with fluorescent light sources (TLD Super 80 58W/840). The project depended upon reusing of the spots where previous fittings were installed. They were to be substituted by innovative, modern and more functional products. The aim of the modernization was to increase the factory's work efficiency, resulting not only in tangible financial benefits, related to its functioning, but also to improve the working conditions of its employees.

Solution

The new lighting installation included Pacific LED WT460C fittings, which substituted the previous conventional solutions. The new product quality and its high lighting efficiency allow for a 24 hour, 49 weeks a year operation without any technological downtime! Comparison of the new product with the previous fittings proves, that the current solution achieves a savings rate on a level of 58% in relation to the former energy consumption. Additionally the Pacific LED WT460C fittings were also used to improve the quality of lighting of the particular work spots.

Benefits

The project was created and implemented with a view to improving the factory's operation. From among the benefits, the new LED lighting system brought about, the financial savings deserve a special attention. The total ROI (Return On Investment) is estimated within 2 years only! The implemented project includes not only financial benefits, but also positively influences the environment, reducing the CO2 emission to the atmosphere. The plan was created and implemented with consideration of the improvement in the factory's operation.

The conducted modernization improves and facilitates the control and maintenance systems, what in consequence contributes, inter alia, to the reduction of technological downtimes and what comes from that to the reduction of production downtimes. The new fittings were able to decrease the glare effects, unfavorable for human eyes, at the same time increasing the lighting intensity and unifying the color temperature of the light. The aforementioned factors influence the general comfort of use of the lighting system and contribute to an increase in visibility, what in consequence translates into reduction of work related accidents.

The modernization of the lighting system in the Pila factory is an example of, how a reduction in costs may go along with

an increase of the quality and efficiency of lighting. It sets new standards of functioning of industrial facilities.



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Innovativeness of the endeavor of modernization of the lighting system in the fluorescent bulb production facility, confirms the practical use of the contemporary LED technology aiming at increasing the cost effectiveness of the industrial facility.”

Marek Huzarewicz
CEO of Philips Lighting Poland SA



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