

PRESS RELEASE

Smart lighting from the cloud

Tridonic supports smart energy-efficient lighting in a Spanish town

Dornbirn, August 3, 2021. The Spanish town of Pozuelo de Alarcón, located 15 kilometres west of Madrid, now benefits from a state-of-the-art, energy-efficient and centrally controllable lighting solution. Tridonic has equipped the municipality with 2,700 smart, dimmable LED drivers for the entire outdoor area. The town can thus save more than 50 percent in energy costs and take a crucial step closer to its ambitious climate targets.

The municipal authority of Pozuelo de Alarcón has long been an advocate of climate-friendly, sustainable and resource-saving energy concepts. It decided that the entire street lighting should also meet these high demands and therefore planned to equip the existing lighting infrastructure with new, state-of-the-art, energy-saving technology. Since peer-to-peer communication in the town was already using the General Packet Radio Service (GPRS) protocol, the new luminaires had to be compatible with this technology. As a consequence, only suppliers who met this requirement were eligible for the project.

Smart lighting with energy-efficient LED technology

The authority opted to invest in an innovative smart lighting solution, for which the Austrian manufacturer Tridonic supplied highly energy-efficient constant current LED drivers. Project partner INELCOM INGENIERIA ELECTRONICA COMERCIAL designed a total of 2,700 smart, dimmable luminaires fitted with intelligent LED technology. They were installed by the public lighting service provider ImesAPI Group. The special feature here is that the devices are part of a fully networked lighting concept and can be controlled and monitored centrally from the cloud. The operator therefore benefits from a precise schedule for maintenance work, alarm messages, clear consumption diagrams as well as sophisticated fault management.

The Tridonic drivers were integrated in each individual luminaire. Four different luminaire types were used – classic luminaires (Villa), street lights (Vial), luminaires for parks and gardens and decorative luminaires for residential areas and green spaces. In particular, the engineers installed 300 constant current 40 W LED drivers of type [LCO 40/200-1050/64 PD+ NF C PRE3](#), 1,800 identical drivers with a maximum output power of 60 W (type [LCO 60/200-1050/100 pD+ NF C PRE3](#)) and 600 pieces 90 W drivers of type [LCO 90/200-1050/165 pD+ NF C PRE3](#). Around 50 existing drivers had to be replaced because of various serious installation problems.

Remote control of dimming profiles and driver performance

“It was important for us to be able to program the dimming profiles remotely. Driver performance also had to be diagnosed remotely,” says Ana Belén Cebrián Condado, Municipal Engineer from of Pozuelo de Alarcón. “Tridonic’s driver solutions were able to meet these requirements without any problems.”

Since the new lighting infrastructure was put into operation the town has been able to fully meet its high energy efficiency requirements. By switching the luminaires to LED technology, power consumption has been reduced by more than 50 percent. Further energy savings result from the use of individual dimming profiles. And the inhabitants of Pozuelo de Alarcón also benefit from the upgrade: Visually attractive luminaires with a particularly warm and pleasant light improve the quality of life in the town.

High ecological benefits and easy management

“The new lighting is impressive all round. Now we can fully meet our high ecological standards. And with central, cloud-based management including transparent monitoring functions, inventory optimization and simplified maintenance, we are saving ourselves time and money,” says Ana Belén Cebrián Condado.

Pictures

Pozuelo opted to invest in an innovative smart lighting solution, for which Tridonic supplied highly energy-efficient constant current LED drivers. The new luminaires part of a fully networked lighting concept and can be controlled and monitored centrally from the cloud.

Photos: Patricia Carrión E.

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About Tridonic

Tridonic is a world-leading supplier of lighting technology, supporting its customers with intelligent hardware and software and offering the highest level of quality, reliability and energy savings. As a global driver of innovation in the field of lighting-based network technology, Tridonic develops scalable, future-oriented solutions that enable new business models for lighting manufacturers, building managers, systems integrators, planners and many other types of customers.

To promote the vision of the Internet of Light, Tridonic forms partnerships with other specialists. The goal is the joint development of innovative technological solutions that convert lighting systems into intelligent networks and thereby enable associated services. Its profound, technical industry expertise makes Tridonic an ideal driver for industry partnerships with other visionaries.

Tridonic is the technology company of the Zumtobel Group and is headquartered in Dornbirn, Austria. In the 2020/21 business year, Tridonic generated sales of Euro 302.8 million. 1,808 highly skilled employees and a worldwide sales presence in over 70 countries reflect the company's commitment to the development and deployment of new, smart and connected lighting systems.

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