



Ayuntamiento de
Valladolid



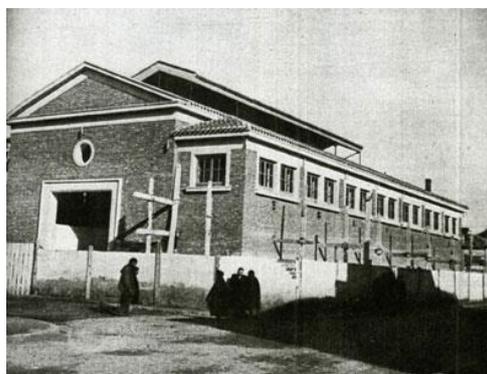
mercados municipales
de Valladolid

Energy efficiency improvement in the lighting in Mercado de Delicias.

Valladolid –Spain

Context & Rationale

Municipal markets are own and managed by Valladolid local government (townhall) and are characterized by having a great commercial activity and excellent customer attention. Mercado de las Delicias has been operating since 1946 meeting the fresh products demand of the various neighbours that they supply.



A big renovation of the building occurred in 2002 which gave to the market a new and fresh environment. The building has a total area of 4778 square meters distributed in three floors and has a wide curve roof which remembers the old markets and facilitates natural ventilation and lighting of the building.

In 2015, an energy efficiency improvement in the lighting in Mercado de Delicias program was implemented. The “Energy efficiency improvement in the lighting in Mercado de Delicias” program was based on an indoor lighting saving goal. To achieve this purpose, around 263 fluorescent lampshade and compact lamps were replaced by led luminaire: corridors, garage, storage and facades. As a result of the implementation of this program, the building has now an automation system, with motion detector and luminosity.



This project has received funding from
European Union's Horizon 2020 research and
innovation programme under grant agreement
No 695923



Description and Main Objectives

The Program improves the energy efficiency of the lighting system of the interior of Delicias Market by substituting low efficiency lighting system by high performance LED technology lights equipped with system regulation "DALI". The installation is equipped with a lighting control system "Smart" designed under the KNX standard, allowing to regulate in an autonomous form the lighting system. This system allows to: (i) Generate alarms due to intrusion: it detects movements and informs the system that it must turn on the corresponding lighting system and (iii) constant regulation: thanks to photocells, it constantly graduates the lighting levels as a function of the natural light.

The expected savings were estimated at: 3.780 €, 17.200 kWh/year and 8.300 Kg CO₂.

Implementing Structure & Partners - Governance

The procurement was public and it was done based on the economic criteria. The funding was fully provided by the municipality.

The awareness raising and communication was done using canvas banners with information for the general public (workers of the market, customers and visitors).

The implementation of the project was conducted through the cooperation of a legal technician (advisor) and the energy technician

Financing and Costs / Time Frame

The total cost amounted 42.325,80€ and it will be repayed in 11 years.

The project was completely executed in 2015.

Contacts & Links

Project website: <http://www.ingernova.es/node/208>

Disclaimer: This project has been funded with support from the European Commission. The sole responsibility for the content of this factsheet lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EASME nor the European Commission are responsible for any use that may be made of the information contained therein.

