

Spain Case study – Energy efficiency improvement in the lighting in Mercado de Delicias



Country	Spain
Sector	Service buildings
Year	2015
Narrative description	<p>The municipal markets are owned and managed by the Valladolid local government and have a large amount of commercial activity and excellent customer attention. Mercado de las Delicias has been operating since 1946 meeting the demand for fresh products from the various neighbours that they supply.</p> <p>A large renovation of the building occurred in 2002 which gave the market a new and fresh environment. The building has a total area of 4778 square metres distributed over three floors and has a wide curved roof which is both reminiscent of old markets and facilitates natural ventilation and lighting of the building.</p> <p>In 2015, an energy efficiency improvement in the lighting in Mercado de Delicias programme was implemented. The “Energy efficiency improvement in the lighting in Mercado de Delicias” programme was based on an indoor lighting saving goal. To achieve this purpose, around 263 fluorescent lampshade and compact lamps were replaced by led lights: corridors, garage, storage and facades. As a result of the implementation of this programme, the building now has an automation system, with motion detector and luminosity.</p>
Responsible authority	Municipality of Valadoid
Relevant legal basis	n.a.
Policy Type	public procurement

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Governance Level/ Target audience	Municipality level
Objectives	Improving the energy efficiency of the lighting system of the interior of Delicias Market in Valladolid
Summary of reasons for success	The energy saving effects can be considered a no-regret option. The total cost of the investment is expected to be repaid in 11 years giving it a negative marginal abatement cost. As the measures enable financial savings to the municipal public authorities of 3.780 € annually, it eases the budgetary situation in the medium-term and as a state-of-the-art municipal market it is a crucial local infrastructure for both neighbours as well as local suppliers of fresh food. The measures are considered to be BAT and due to the smartness of the system it allows to: (i) Generate alarms due to intrusion and (ii) ensures constant regulation thanks to photocells, constantly graduating the lighting levels to deliver natural light.
Replication potential	Similar market halls and commercial facilities exist in other parts of Spain and the Iberian peninsula as well as other countries with comparable climatic conditions and the tradition of municipal markets.
Relevant website	http://www.ingernova.es/node/208