

8 Spanish cities cut energy consumption by 64% with smart street lighting



Eight Spanish cities reduced their electricity consumption by 64% and saved over 4,300 tonnes of CO₂ in 2014, thanks to efficient street lighting systems and technologies that both cut costs and benefit the environment.

According to [Council member Enel](#) [1], its two companies -- Enel Sole and Endesa -- enabled the towns of Alcázares (Murcia) pictured above Móstoles (Madrid), Batea (Tarragona), Manacor (Balearic Islands) and the Andalusian towns of Vélez Rubio (Almería), Pruna (Seville), Écija (Seville) and Almodóvar del Río (Córdoba) to reduce energy consumption and cut public expenditures.

The technology rolled out by the companies is based on the use of efficient lights with smart controls fitted at every lighting point. This improves lighting quality and leads to significant energy savings. The life span of the lighting module is also extended to over 60,000 hours, while the lighting network gains flexibility as each street light can be programmed independently.

These projects help local councils to drive up energy efficiency, cut CO₂ emissions, and increase the availability of street lighting as faults can be detected in real time.

Another benefit of the lighting work has been that the projects

Using less energy. In addition to cutting the towns' electricity bills, Enel's street lighting projects also involved hiring local labor to carry out installation and maintenance work, contributing to regional development.

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Enel's [public lighting projects](#) [2] have led their companies to install some 183,250 Archilede LED devices in more than 1,600 towns between 2009 and 2014, enabling an overall energy saving of around 111 gigawatt-hours.

Readiness Guide Chapter: [Energy](#) [3]

[Energy](#) [4]

Associated Company: [Enel](#) [5]

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Links

[1] <http://smartcitiescouncil.com/members/enel>

[2] <http://www.endesa.com/en/saladeprensa/noticias/EnelSole-Endesa-slash-energy-consumption-2014>

[3] <https://readinessguide.smartcitiescouncil.com/readiness-guide/energy-anz>

[4] <https://readinessguide.smartcitiescouncil.com/readiness-guide/energy>

[5] <https://readinessguide.smartcitiescouncil.com/members/enel>