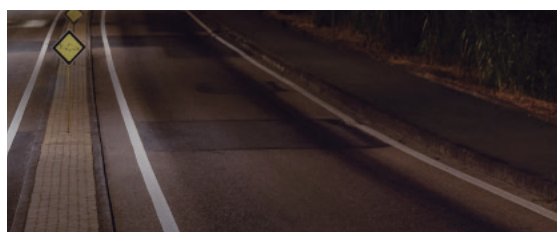
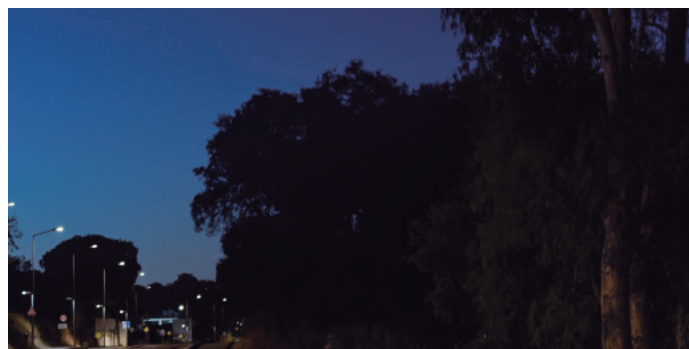
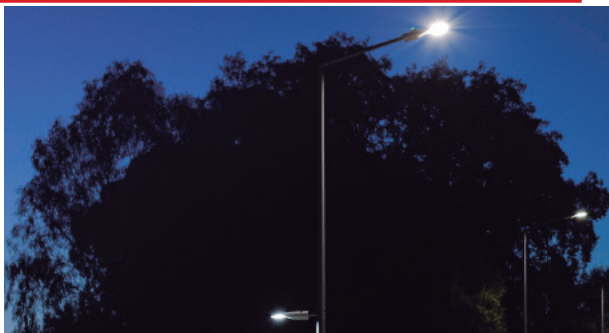


# MORA MUNICIPALITY

## CASE STUDY

ARQUILED

BRIGHT NEW FUTURE



## Arquiled equips the municipality of Mora with high efficiency LED luminaires

### GOALS

The municipality of Mora (Alentejo, Portugal) is now equipped with LED technology for street lighting, provided by the modern SCULPTOR luminaires, produced by Arquiled. It should be noted that Mora is “the home” of Arquiled, where the manufacturer has its factory and is headquartered.

The project of upgrading the street lighting of Mora with LED technology is part, of the extended energy efficiency plan for street lighting, held by the Intermunicipal Community of Alentejo Central (CIMAC), for all 14 municipalities in the district of Évora, and which involved the replacing and updating more than 50 thousand traditional light fixtures with LED luminaires.

With the main purpose of reducing energy consumption above 70%, the project also involved other concerns, such as the reduction of carbon dioxide emissions and light pollution. To this end, more than half of the luminaires incorporate point-to-point management technologies, which allow luminous flux regulation according to customized profiles, and the remaining luminaires are prepared to be able to have remote management when necessary.

The total investment, in the 14 municipalities, is around 21 million euros, financed under the European Energy Efficiency Fund (EEEF), and has estimated a 10-year payback period.

The project was developed by an ESCo Company, I-Quatro, Lda, with solutions from Signify, for most municipalities, with the participation of Arquiled, in partnership with iSete, to equip the municipality of Mora.

## INSTALLED SOLUTION

### GREATER VISUAL COMFORT AND SAFETY ON PUBLIC ROADS

The project to replace conventional lighting with LED technology luminaires, in the municipality of Mora, was developed to meet the stated needs of reducing energy costs and CO<sub>2</sub> emissions, but also to improve the quality of lighting provided comfort visual and safety to users on public roads.

In the municipality of Mora, 1,742 luminaires from the family of SCULPTOR road luminaires were replaced, with a color temperature of 3,000 k, in which almost all (1,675) of the luminaires have a Zhaga socket, thus being prepared for interoperability with Signify's CityTouch flow regulation systems through GSM communications protocol.

The project covers the four parishes in the municipality of Mora with around 4 979 inhabitants: Brotas, Cabeção, Mora and Pavia.

#### SCULPTOR 200



#### SCULPTOR 100



Arquiled Factory - Mora, Portugal



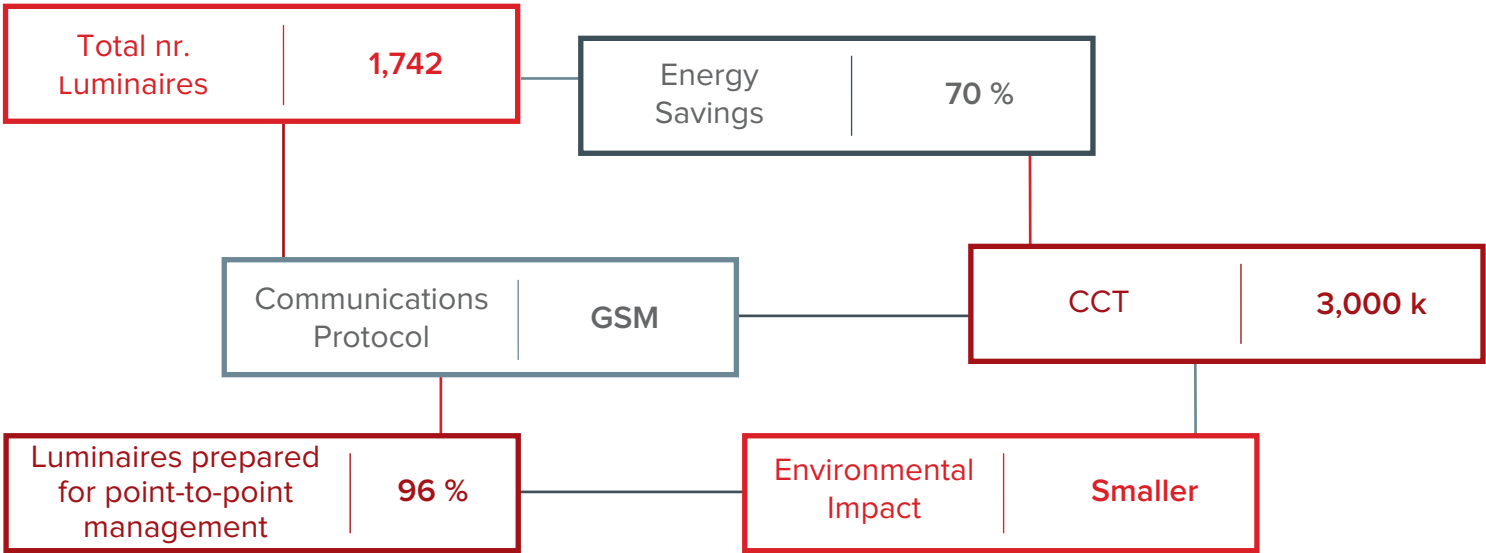
# BENEFICTS

## OF PROJECT IMPLEMENTATION

The replacement of traditional technology light fixtures with LED technology luminaires brings enormous benefits, which meet the objectives of the municipality. The reduction of street lighting costs is significant and without any investment from the municipality - the investment is entirely supported by the ESCo (Energy Service Company) and a monthly rent is paid for the service provided.

In this way it is possible to achieve the design of a more ecological municipality that contributes to the minimization of the environmental impact, with the reduction of CO<sub>2</sub> emissions.

- ▶ Cost reduction from the first month - project with immediate savings.
- ▶ Service quality assurance - associated with the maintenance contract, thus ensuring that savings are maintained throughout the contract.
- ▶ Modernization and improvement of the quality of street lighting, with greater visual comfort.
- ▶ More safety for users on public roads.



# ARQUILED

## BRIGHT NEW FUTURE

Arquiled is a general LED lighting manufacturer, specialized in professional luminaires for street lighting, systems, and services.

Headquartered in Mora-Alentejo, is a Portuguese industrial company, pioneering the market since 2005, that designs and develops its own products and solutions.

ARQUILED is committed to develop smart management solutions focused on reducing energy consumption and decarbonization, contributing to sustainable urban clusters.

## CONTACTS

Arquiled, Projectos de Iluminação, S.A.  
T: +351 217 971 964  
E: sales@arquiled.com

Arquiled Colombia S.A.S  
T: +571 756 00 96  
E: info@arquiled-light.com.co

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