

Una manera de hacer Europa



BUENAS PRÁCTICAS

Actuaciones Cofinanciadas

Change of luminaires for led lights in the streets of Tobarra, Liétor and Albatana

Provincial Council of Albacete

**Programa Operativo
Plurirregional de España**

Año 2021

Fondo Europeo de Desarrollo Regional

GOOD PRACTICE: CHANGE OF LUMINAIRES FOR LED LIGHTS IN THE STREETS OF TOBARRA, LIÉTOR AND ALBATANA

PROVINCIAL COUNCIL OF ALBACETE.

The activity promoted by the Provincial Council of Albacete has consisted of renovating the luminaires of the urban centres of Tobarra, Liétor and Albatana.

The substitution of luminaires has improved the existing technology since the current infrastructure is renewed with LED technology. This implied a much more efficient consumption than the one that was being produced by the replaced luminaires, which in most cases were of outdated sodium technology and inefficient, and whose age was around 25 years. In addition, a better service is also achieved since the renovation of luminaires has a remote management sensor system, being able to program their switching on and the light intensity at different times of the day.

The **total cost of the action** has been **207,000 euros**, of which **80% has been co-financed by the European Union thanks to the European Regional Development Fund (ERDF): 164,885 euros**.

Thanks to implementing this improvement, **a reduction in electricity consumption of more than 70% has been achieved in each municipality, generating significant savings.**



1. The role of the ERDF in this activity has been conveniently disseminated among the beneficiaries, potential future beneficiaries and the general public.

The actions to communicate this project have been the following:

A **Temporary poster** located in the three urban centres, examples:



Permanent plaques in urban centers:



Description of the operation in the EDUSI web section. [This project has its section on the web](#). And it has spread on social networks:



Press release in provincial press (October 18th, 2020):



La provincia de Albacete, más eficiente gracias a la Diputación de Albacete

La mejora de la eficiencia energética, la disminución de las emisiones de CO2 y aliviar la factura energética de los municipios son los tres ejes que vertebran la acción de buenas prácticas en Eficiencia Energética con Renovación de Alumbrado Exterior puesto en marcha por la Diputación Provincial de Albacete gracias al **Fondo Europeo de Desarrollo Regional**.

La Estrategia de Desarrollo Urbano Sostenible e Integrada (EDUSI), engloba a siete municipios perimetrales al de Hellín suponiendo, en el conjunto de su desarrollo, una **inversión global de casi 3.900.000 euros** que abarcan operaciones de temáticas diversas en ellos, siempre dirigidas a **optimizar las poblaciones mediante la eficiencia, la sostenibilidad y la recuperación de herramientas** que pueden ser fundamentales para su desarrollo y sus oportunidades de futuro. En el caso de los municipios de **Tobarra, Liétor y Albatana** ya se ha completado la serie de actuaciones enfocada a **mejorar la eficiencia energética renovando alumbrado exterior**, conllevando esto tanto importantes **ahorros económicos** a las localidades, como **ahorros energéticos** y **reduciendo la huella de carbono**.



Todas estas actuaciones encaminadas a mejorar la eficiencia energética del alumbrado exterior en estas localidades de la provincia de Albacete están **cofinanciadas por el Fondo FEDER al 80% y el otro 20% es cofinanciado por la Diputación** sin suponer ningún coste para los municipios beneficiarios de los proyectos. Además, la instalación de **placas permanentes** en los lugares donde se realizan inversiones es obligatoria por el reglamento del parlamento Europeo y del Consejo de la Unión Europea, con el fin de que quede constancia de las mismas.

La EDUSI, que en estos momentos se encuentra aproximadamente al **50% de su nivel de ejecución**, tiene **plazo hasta diciembre de 2022 para completar sus actuaciones**. Un periodo de tiempo que puede ser prorrogable hasta un año más.

A report on the provincial radio station (October 20th, 2020):



Diputación permite un doble ahorro a los pueblos a través de la eficiencia energética

Actuaciones doblemente importantes porque, por un lado, conllevan un ahorro económico a cada uno de los Ayuntamientos y, por otro lado, también disminuyen su gasto de energía y suponen una destacada reducción de emisiones de CO2 a la atmósfera

La inversión total asciende a unos 286.100 euros, el 80% (228.884 euros) aportados por el **Fondo Europeo de Desarrollo Regional (FEDER)** y, el 20% restante (57.221 euros), por la Diputación de Albacete (que, además, ha adelantado el 100% a los Ayuntamientos)

¿Cómo emplea la Diputación de Albacete los fondos EDUSI?

Lo más leído

Lo más escuchado

2. The action incorporates innovative elements

A completely new system has been installed in the province to manage public lighting in Albatana, Liétor and Tobarra remotely. This system allows for regulation of the light intensity according to convenience, thus avoiding having to have lighting at maximum power when it is unnecessary.

Thanks to the technology of the power and the new technology that was supplied, it is possible to reduce the electricity bill of the municipalities since the current lighting, unlike the previous one, consists of LED technology, which is much more efficient.

In addition, it also represents 70% more lighting compared to the previous system.

3. Adaptation of the results obtained to the established objectives:

The main objective was to cut down expenditure on public lighting in the municipalities, thereby producing savings and thus allowing the City Councils to have more spending for other investments.

The main objective has been met, as the improvement of energy efficiency in municipal lighting in Albatana, Liétor and Tobarra has produced a reduction in lighting by approximately 75%.

In addition to the economic savings, we must also highlight the savings in greenhouse gas emissions that this action has entailed.

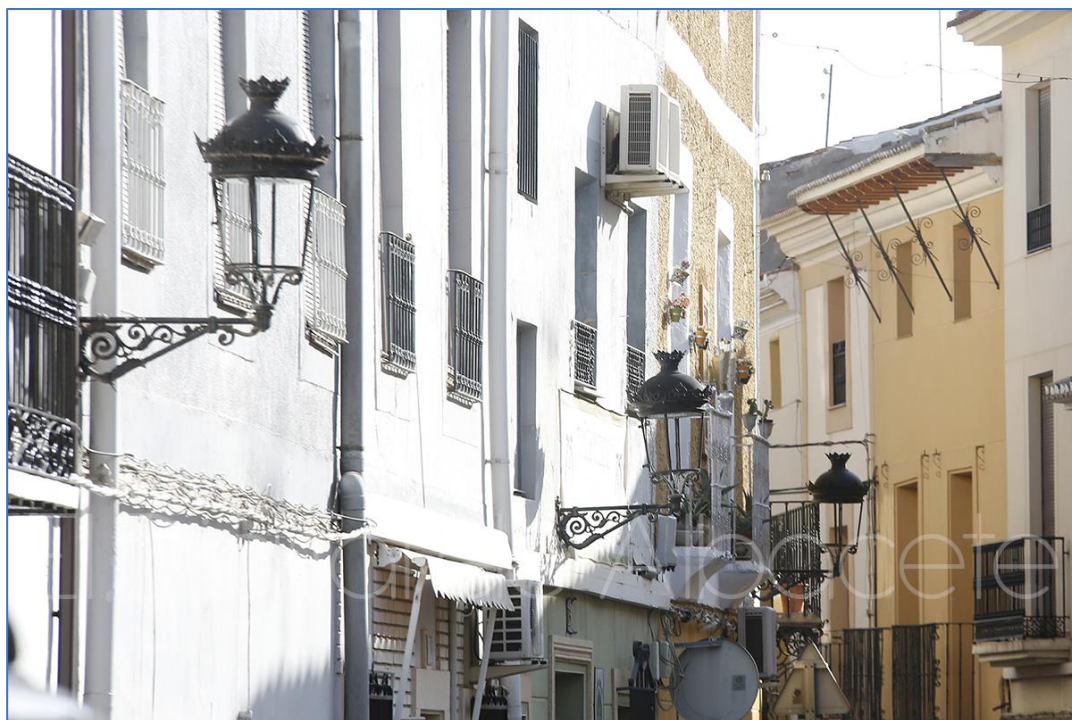
4. Contribution to the resolution of a problem or weakness detected in the territorial scope of execution:

The Provincial Council of Albacete has always been clear that one of the fundamental problems in the municipalities was that spending on public lighting was very high because no investments had been made in terms of renewing the lights for more than 25 years.

In addition, another weakness that the municipalities have is the limited municipal budget for the large quantity and quality of services that a town hall must offer to citizens.

With this action, substantial and vital savings have been achieved for the municipalities, thus contributing to resolving the main problem: the high cost of public lighting. This action also means that the cities have more budget available, thus helping their budget stability and ability to make investments or provide better services.

In addition, the energy consumption of the old luminaires was very high, which meant that greenhouse gas emissions were also increased, a problem that has also been solved since the LED lights that have been installed are among the least polluting that exist.



5. High degree of coverage of the target population:

With the renovation of the obsolete luminaires for the new ones of the LED type, better light quality has been achieved for the citizens of Tobarra, Liétor and Albatana, a fact the local population has especially valued in the days following the change of the luminaires. Therefore, this action has a total coverage in these three urban centres.

The quality of life of the resident population, around 10.000 people, has improved. Furthermore, this action positively affects the thousands of non-residents in these municipalities who annually come as tourists to enjoy Holy Week in Tobarra, the Aqueduct Romanesque in Albatana or the Convent of the Discalced Carmelites in Liétor.

6. Consideration of the horizontal criteria of equal opportunities and non-discrimination, as well as social responsibility and environmental sustainability:

The increase in light as people pass by due to the sensors causes greater security at night, thus especially helping certain groups such as the elderly, boys and girls, women, etc.

From the environmental point of view and responsibility for the climate change that the planet is suffering, the action contributes to a significant reduction in polluting gas emissions by approximately 75%.

7. Synergies with other policies or instruments of public intervention

The Provincial Council is working on improving public lighting in all municipalities in the province of Albacete, taking advantage of all the economic resources offered by the autonomous community, the state and the European Union. This action is part of the effort that is being made to reduce consumption in the electricity bill of Albacete municipalities.

In particular, and for the municipalities close to the three affected by this action, the lights of the Hellín Sports Complex have been changed on soccer fields and athletics tracks that the inhabitants of the entire region usually enjoy.

Concerning other actions different from renovating the public lighting but meant to improve energy efficiency, the Provincial Council of Albacete has worked on the energy rehabilitation of other town halls'

municipal buildings. It can be highlighted the renovation of the heating boilers and hot water from diesel to more efficient ones such as gas. Or the renewal of interior lighting with LED technology or the improvement in the insulation of windows.

Finally, it is worth highlighting the work to improve energy efficiency in managing the public water supply in Liétor, Albatana, Férez and Socovos, which means that the bill for energy consumed and emissions decrease even more. Specifically, new extractor pumps and new sensor systems have been put into operation to detect breakdowns immediately so that neither water nor energy is wasted.

It is worth highlighting the outstanding commitment of the Albacete Provincial Council to the 2030 Agenda and the achievement of the Sustainable Development Goals of the United Nations Organization; this action is a clear example of how progress can be made towards them by the provincial administration.



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