

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS

## Actuaciones Cofinanciadas

Changing lights for LED lights at Hellin Municipality Sports-Cultural Facilities

Albacete Provincial Council

**Programa Operativo  
Plurirregional de España**

Año 2022

**Fondo Europeo de Desarrollo Regional**

## CHANGING LIGHTS FOR LED LIGHTS AT HELLÍN MUNICIPALITY SPORTS-CULTURAL FACILITIES

### ALBACETE PROVINCIAL COUNCIL

Albacete Provincial Council has promoted lights renewal in various public infrastructures in the municipality of Hellín, both in the city itself and in some of municipality districts.

These luminaires replacement has allowed to improve the existing technology, renewing technological infrastructure previously outdated. This action has led to increase efficiency in the use of energy, since it is capable of reducing its consumption, providing that the existing luminaires were mostly technologically outdated and not meeting current energy efficiency standards.

In addition to improving the service, it should be noted that betterment have not been concentrated exclusively in Hellín city, given that it has been promoted in several of its districts, which has lead to the resident population further benefits.

The renovated infrastructures have been: different soccer fields, tennis field and Hellín bullring, as well as Santa Ana and Agramón soccer fields.

**Action total cost has been 198,952.57 euros, of which 80% are co-financed by European Union thanks to European Regional Development Fund (FEDER): 159,162,05 euros.**



# 1. Role of FEDER has been to disseminate benefits appropriately among beneficiaries, potential beneficiaries and general public.

Actions to communicate the operation have been the followings:

## Permanent Plate



## Temporary poster





## Hellín local TV advertisement



## Microvídeo



## Action has its own website section

**Fondo Europeo de Desarrollo Regional (FEDER)**  
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PERIODO 2014-2020 PROGRAMACIÓN GESTIÓN Y SEGUIMIENTO COMUNICACIÓN EVALUACIÓN

### Reducción del consumo energético en edificios e instalaciones del Área Funcional de Hellín

**Presupuesto de la operación:**





**286.945,27 euros**

- 229.558,22 euros aportados por la Unión Europea (80%)
- 57.389,05 euros aportados por la Diputación Provincial de Albacete (20%)

**Contratos asociados a la operación:**

- Asistencia técnica para la realización de las auditorías energéticas de edificios de determinados municipios del Área Funcional de Hellín: 17.726,50 €
- Suministro e instalación de luminarias para la mejora de la eficiencia energética del alumbrado interior de determinados municipios del Área Funcional de Hellín: 126.561,45 €
- Suministro e instalación de calderas para la mejora de la eficiencia energética de edificios de determinados municipios del Área Funcional de Hellín: 72.456,01 €
- Suministro e instalación de ventanas para la mejora de la eficiencia energética en edificios de determinados municipios del Área Funcional de Hellín: 33.389,53 €

ACTUACIONES PUBLICIDAD: CENTRO MUNICIPAL DE FORMACIÓN

La operación consiste en la mejora de la eficiencia energética en edificios e instalaciones públicas del área funcional de Hellín. Se desarrolla en dos fases:

Una primera fase consistente en la **realización de auditorías energéticas** para determinar el consumo actual de un número determinado de instalaciones y edificios en los espacios públicos seleccionados en función de su gasto energético, así como todas aquellas medidas de actuación a realizar que permitan mejorar la eficiencia energética de dichos edificios e instalaciones. Entre las edificaciones a editar se encuentran: instalaciones deportivas, escuelas infantiles, centros culturales, casas consistoriales, etc.

Tras esta primera fase de auditoría, se desarrollará la segunda fase de la operación consistente en la **realización de las actuaciones** que permitan reducir los consumos energéticos de las edificaciones auditadas. Tal y como establecen los criterios para la selección de operaciones, todas las actuaciones en edificios públicos tomarán como base la clasificación energética inicial y buscarán mejoras significativas (de por lo menos una letra de clasificación energética), de acuerdo con el Real Decreto 235/2013 de 5 abril por el que se aprueba el procedimiento básico para la certificación de la eficiencia energética de los edificios. Una vez finalizada, se llevará a cabo una certificación final de los edificios en los que se ha actuado para determinar los ahorros energéticos conseguidos.

Los edificios pertenecientes a esta actuación son:

**Localidad de Pozobonda:**

- Centro Social Cultural.
- Edificio Consistorial.
- Edificio Multusos (biblioteca, Guardería y Centro de Internet).

**Localidad de Férez:**

- Centro Social Cultural.

**Localidad de Socovos:**

- Casa de la Cultura.
- Centro Social Cultural.
- Biblioteca de Tarazona.

**Localidad de Hellín:**

- Pabellón Polideportivo "Adolfo Suárez".
- Pabellón Polideportivo Nº2.
- Pabellón Polideportivo Iso.
- Escuela Infantil "Martinez Parras".
- Escuela Infantil "El Calvario".
- Escuela Infantil "El Rosario".
- Casa de la Cultura.

En estos edificios se auditará el conjunto de instalaciones energéticas de los que dispona como calderas, potencia instalada en calefacción, refrigeración, iluminación o ACS. Se realizará una auditoría completa de la situación energética actual del edificio y se propondrán medidas de eficiencia energética, para, en la fase posterior, llevarlas a cabo.

## Performance has been spread on social networks



**Diputación de Albacete**  
@dipualba

...

🔊 Nuestro pte., @santicenizate, ha supervisado la renovación de luminarias realizada en varios puntos de Hellín dentro de la #EDUSI de su Área Funcional. Casi **2000.000€** invertidos con #Dipualba y **#FEDER** que supondrán un triple #ahorro a la localidad [dipualba.es/Main/noticia.a...](https://dipualba.es/Main/noticia.a...)






## **2. Action incorporates innovative elements**

This action consisted of renewing 7 public facilities lighting in the municipality of Hellín, and it has been carried out both in the main municipality and in its districts. This operation represents a technical innovation which consists of modifying the existing electrical technology, which dated back to the 90s, with a new LED technology that is economic and environmentally much more efficient, which also achieves a more adequate lighting provision for the facilities where they have been installed, since the previous lighting presented low intensity problems or low luminosity areas.

Furthermore, this rehabilitation has also been carried out in some of the districts of the municipality (Agramón and Isso), so that a progress has been made in the fight against the existing divergences between populations far from the main urban center.

In addition, a new technology has been incorporated that allows the light intensity to be regulated according to each moment needs.

Infrastructures that have made the change to LED are the following:

At Hellín:

- Santa Ana soccer field
- Santa Ana Running Track
- Bullring
- Soccer field nr 7
- Soccer field nr 2
- Tennis courts

At districts:

- Agramón soccer field
- Isso soccer field

## **3. Results adequation to established objectives**

Main objective was “Improve use of energy efficiency and reducing emissions through innovation and an environmental municipal services smart management as well as sustainable mobility, allowing a reduction of Functional Area contributions to climate change and improving municipal treasuries sustainability”, as it is included in the initial EDUSI Strategy. It has been fulfilled since a solution has been put in place for public lightning high cost entailed in sports and cultural buildings.

That way, action objective has been to achieve the greatest possible energy and economic savings providing Town Hall with a greater budgetary stability and the ability to make investments for rendering better services.

It has also been possible to reduce greenhouse gas emissions generated by old lighting fixtures, since LED technology is less polluting and capable of substantially reducing emissions into the atmosphere.

It should also be noted that renovations have not only been made over main urban nucleus, but in some of the districts of the municipality, reducing the existing divergences between Hellín Ciudad and its districts.

#### **4. Contribution to a weakness or problem at execution scope territory:**

At initial EDUSI Strategy, the following problems and weaknesses were identified:

- High energy consumption in public infrastructures
- Need to improve efficiency in energy use and reduction of emissions
- The need to adapt existing infrastructure to new citizen demands

These weaknesses and problems have been resolved, since lightning renovation over different public buildings makes it possible to reduce their energy consumption and clearly improving energy efficiency at municipal level, with the corresponding reduction in emissions that is supposed to occur.

From the beginning of the Strategy design process, the need to reduce annual public energy spending was identified, since it required a large number of resources, especially in sports equipment.

With this action, it is estimated that a financial saving of 84,000 euros per year has been achieved. Regarding energy savings, the estimation reaches to 480,000 kWh per year, and, thirdly, greenhouse gas emissions have been reduced to date by 2,500 tons.

#### **5. High coverage degree over target population.**

With the renewal of obsolete luminaires with new LEDs, better lighting quality has been achieved throughout the city of Hellín, as well as in some of its districts.

In addition to improving resident population quality of life for 30,492 inhabitants, it has also positively affected people who do not normally reside in the municipality, such as, for example, all the tourists who come to enjoy their Holy Week or the gastronomic, cultural and sporting offer, as well as the people who come to enjoy a sporting event.

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

This action clearly meets the criteria of social responsibility and environmental sustainability, since its main objective is to make more rational use of the municipality energy resources available, both in the dispersed urban centers and in the original city.

Apart from reducing the cost of energy, an essential issue in a geopolitical context characterized by the rise in the price of raw materials, it reduces the environmental impact of consuming this input, substantially decreasing greenhouse gas emissions.

In addition, it has a clear criterion of territorial development since the actions are not concentrated exclusively in the city, but improvements have been made in the main districts, ensuring that the population residing in them can benefit from this reduction in the light price.

#### **7. Synergies with other public intervention policies or instruments**

Albacete Provincial Council is carrying out different actions to reduce the divergences that have occurred between rural areas and urban populations, promoting that rural spaces have the same services as in urban centers with a larger population.

For this reason, the EDUSI of the functional area of Hellín places special emphasis on actions that promote reduction between the divergences between rural and urban terms, getting, in turn, environmental efficiency criteria, which give greater added value to these actions.

Among the actions regarding energy efficiency, in the Functional Area, energy improvement of different buildings has been carried out with the replacement of heating boilers, windows and lighting in Pozohondo, Socovos and Hellín itself. The municipal public lighting of Albatana, Liétor and Tobarra has also been replaced.

Among the actions that the Provincial Council has carried out so far regarding social matters and inclusion; and equal opportunities, the Rivera neighborhood swimming pool rebuilding in Hellín into a sports center to increase the cultural offer in disadvantaged neighborhoods or Sabino Cuerda Square integral rehabilitation at Hellín.

Finally, it is worth highlighting the work to improve energy efficiency in the power water supply management of Liétor, Albatana, Férez and Socovos, which makes the energy consumed bill and emissions decrease even further. Specifically, new extraction pumps and new sensor systems have been launched to detect breakdowns immediately so that neither water nor energy is wasted.

It is also notable the Albacete Provincial Council great commitment to the 2030 Agenda and the achievement of United Nations Organization Sustainable Development Goals, this action being a clear example of how the provincial administration can move towards them.

More specifically in the achievement of following ODS:

- ODS 7: Affordable and non-polluting energy
- ODS 11: Sustainable cities and communities



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