

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS

## Actuaciones Cofinanciadas

Change of the exterior enclosure, air conditioning and lighting of the Town Hall. EDUSI Molina 2020 Avanza Contigo

Molina de Segura City Council

**Programa Operativo  
Plurirregional de España**

Año 2022

**Fondo Europeo de Desarrollo Regional**

## **GOOD PRACTICES REPORT: "CHANGE OF THE EXTERIOR ENCLOSURE, AIR CONDITIONING AND LIGHTING OF THE TOWN HALL".**

The Molina de Segura City Council presents as good practice: "Change of the exterior enclosure, air conditioning and lighting of the Town Hall".

The action consists of the energy rehabilitation of the Molina de Segura City Hall, which has involved not only the building envelope, but also the interior lighting, ventilation and air conditioning systems.

Specifically, the metal carpentry has been replaced and double-glazed windows have been installed. Thermal insulation panels have been placed on the floors and the façade, and a garden area and a photovoltaic solar installation have been created on the roof. The skylight has also been replaced, in such a way that it becomes a bioclimatic greenhouse, with an automatic awning system and a hot air recirculation system in winter, all managed through an energy monitoring system.



Photo City Hall of Molina de Segura

The action is part of the line of the energy rehabilitation and renewable energy plan in public buildings, within the EDUSI " *Molina 2020 Avanza Contigo* ", and the works were carried out at a total cost of €1,979,886.28, and has been carried out with 80% co-financing by the **European Regional Development Fund (FEDER)**, which has contributed a total of €1,583,638.22 , through the "Multiregional Operational Program of Spain 2014-2020".

### **CRITERIA TO BE CONSIDERED GOOD PRACTICE.**

This action is considered to be good practice as it meets the criteria set out below for its consideration:

#### **1. The action has been properly disseminated among the beneficiaries, potential beneficiaries and the general public.**

Dissemination obligations were met through a communication campaign designed to maximise the impact of ERDF support in the city, as identified in the communication study.

In relation to the **regulatory communication**, it was published that the contract was 80% co-financed by the FEDER in the State Procurement Platform in the announcement, the technical and administrative specifications and in the list of co-financed contracts that is published periodically. on the *EDUSI website* "Molina 2020 Avanza Contigo".

State Procurement Platform  
EDUSI website:

<https://acortar.link/5E636g>  
<https://acortar.link/7YKCQC>

During the works, a **temporary poster** was placed, in which the name of the action appeared, the operation in which it is part, the budget of the work, as well as the municipal and FEDER co-financing. A permanent plaque with the same information was also installed at the end of the works.



Photo temporary construction site poster

photo



permanent plaque

In relation to the **complementary communication**, an **event** was held for the inauguration of the building on November 30, 2022, which took place in the Plaza de España, where the City Hall is located.

The municipal technicians and a representative of the construction company intervened in the event, who explained the action carried out. An expert in renewable energy, from the consultancy specialized in European financing, EuroVértice, also participated; who explained the importance of being energy efficient. Finally, the mayor, Eliseo García Cantó, unveiled the permanent plaque, which was made to commemorate the contributions of the FEDER fund, and which was installed on the façade of the building.

In addition, on the day of the event, stationary bicycles were installed, connected to a counter that was displayed on a screen on the main façade of the Town Hall. At the end of the first part of the event, the public was invited to participate by pedalling in order to generate energy, which was calculated in the counter on the screen. The event ended with a popular meal in the public square.

The event also featured **explanatory panels** with details of the operation, as shown in the following pictures of the event:





A video of the day of the inauguration of the building has also been produced, which has been inserted in the City Council's own dissemination channels :

FEDER website:

<https://acortar.link/nSPBqC>

Different press releases have had an impact on local and regional **written and digital media, such as:**

La Verdad: <https://acortar.link/v1uAF7>

Murcia.com : <https://acortar.link/iA7yOB>

The action has also been disseminated through **the website of the Molina de Segura City Council**, its YouTube channel, its social networks, as well as from the EDUSI website itself :

federmolina.es: <https://acortar.link/4taPk8>

Facebook: <https://acortar.link/sZqnKo>

In short, intensive work has been carried out to disseminate the action, reflecting that it has been co-financed by the European Regional Development Fund FEDER at 80%, within the framework of the Multiregional Operational Program of Spain POPE 2014-2020.

## **2. The action incorporates innovative elements**

The main innovation that can be highlighted in this action is the replacement of the existing skylight, which is converted into a bioclimatic greenhouse, with an automatic awning system and a hot air recirculation system in winter. In addition, a photovoltaic solar installation has been placed on the roof and a landscaped roof has been created .

It also has an innovative remote energy monitoring and control system to collect energy consumption data remotely, allowing remote control and management of costs.

Another of the innovations that we can outline is the use of official programs recognized by the Ministry of Industry, such as Lider-Calener , CE3X and CYPE, to carry out the energy certification of the building and thus analyse the energy saving measures to be implemented.

## **3. Adequacy of the results obtained to the established objectives.**

Among the strategic objectives of this action is the in-depth renovation of the City Hall building in order to reduce energy consumption and CO<sup>2</sup> emissions. At the same time, the use of renewable energy in the Consistory is increased.

In addition, the lighting is optimised and detectors and occupancy sensors are installed. A photovoltaic system for the building's own energy consumption will also be in place.

On the other hand, in order to promote urban travel with sustainable means of transport, such as

bicycles, there are some bike racks on the side of the City Hall. In this way, people are encouraged to travel around the city in a non-polluting vehicle that does not congest the existing traffic.

In short, this action will make progress towards the goal of reducing greenhouse gas emissions in the urban area.

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

Given the type of construction and the time when the Molina de Segura Town Hall was built, which was inaugurated in 1987, its energy characteristics made it inefficient, due to excessively high energy consumption that produced high carbon emissions.

With this action, existing energy sources are replaced by others that are cleaner, cheaper and with less environmental impact, reducing energy consumption and polluting emissions, as well as making economic savings on both electricity and fossil fuels.



Before and after photos Molina Town Hall

#### **5. High degree of coverage of the target population.**

The energy rehabilitation action of the Molina de Segura City Council has been designed with universal accessibility in mind, for the enjoyment of its residents and visitors.

In addition, this intervention will be a stimulus for the inhabitants of Molina de Segura, to take energy efficiency measures in their properties. And it will be a benchmark of energy sustainability, for new visitors who are aware of these issues.

In brief, this intervention generally benefits all citizens of the fourth most populous municipality in the Region of Murcia, Molina de Segura, which, according to INE data for 2022, has a total of 73,498 inhabitants <sup>1</sup>.

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

The energy renovation action respects the criteria of horizontality, equal opportunities and non-discrimination. The City Council is intervening in a sustainable manner in a public property without compromising the possible development of future generations, being aware of the scarcity of natural resources and taking appropriate action.

In this sense, a photovoltaic solar energy installation is placed on the roof of the building, which is considered sustainable, as long as it is an energy that does not run out and will always be

<sup>1</sup><https://www.ine.es/jaxiT3/Datos.htm?t=2883>

available for other generations. In addition, measures have been taken to insulate the building and use less energy.

Similarly, the City Council does not forget people with different functions and applies existing regulations regarding the removal of architectural barriers, in a building that is used by all the inhabitants of Molina de Segura.

In terms of social responsibility, the City Council is leading by example in terms of energy saving, and this will certainly encourage its citizens to follow in the same footsteps in their private lives.

In relation to environmental sustainability, the design of an enclosure that directly captures natural energy, such as solar energy, through the photovoltaic installation located on the roof, becomes a non-polluting energy manager.

This type of comprehensive refurbishment therefore achieves reductions in energy consumption and pollutant emissions, as well as economic savings in both electricity and fossil fuels.

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

Following the indications of the National Energy Efficiency Plan, for saving primary energy, and the 2011-2020 Renewable Energy Plan, for increasing the use of alternative and sustainable sources, the City Council addresses an energy rehabilitation and renewable energy plan for public buildings, with the aim of improving the energy efficiency of municipal buildings.

In this sense, the energy rehabilitation of twenty municipal buildings and facilities is planned, among which is the Town Hall and which are part of the Sustainable and Integrated Urban Development Strategy (EDUSI), "Molina 2020 Avanza Contigo" .

Examples of such interventions are the energy rehabilitation of the "Sánchez Cánovas", "El Romeral" and "El Llano" football pitches, where aerothermal systems were installed in changing rooms and the lighting was replaced by a more efficient one.

Also, action has been taken on the tennis and paddle tennis courts "El Romeral", in the municipal velodrome "Alejandro Valverde" and in the baseball field " Torrealta ". Likewise, a photovoltaic solar installation has been placed on the "El Romeral" heated pool deck.

In short, the Molina de Segura City Council is committed to energy efficiency and to being, above all, an example to follow for its citizens.

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