





Una manera de hacer Europa



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Programa Operativo de Castilla y León

Año 2020

Fondo Europeo de Desarrollo Regional

The Good Practice presented below is the operation consisting in readjusting the lighting system and adapting the electrical installation to improve energy efficiency in the building of the Territorial Delegation of Ávila.

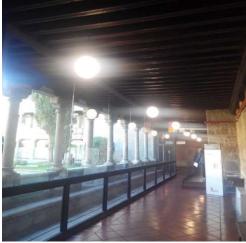
The Regional Ministry of Economy and Finance, through its General Secretariat, develops a series of actions aimed at renewing the energy efficiency of buildings that are part of the heritage of the Administration of Castilla y León. This good practice is part of these actions. In the building of the Territorial Delegation of the Governing Council of Castilla y León in Ávila, the current lighting system must be renovated and readjusted to improve the energy efficiency of the installation and the building, thus contributing to protecting the environment, and also ensure optimal and sufficient lighting levels according to requirements and compliance with the regulatory requirements according to applicable regulations, in addition to ensuring the proper operation and maintenance of the facilities.

Like most of the historical administrative buildings and used for public service for many years, its lighting consists of different types of lights, with fluorescent light sources, in addition to a considerable amount of mostly ornamental wall lamps and incandescent lamps. The existing lights have been replaced with more efficient LED technology, and presence sensors and lighting control have been installed in the corridor areas on the first and second floors of the building. This drastically reduces the system's energy demand and therefore the consumption generated, and CO₂ emissions, resulting in the remarkable improvement of the building's energy rating in compliance with the goals set by the European Union.

The amount corresponding to this action adds up to €149,500, of which ERDF finances €74,750.







Detail of corridors with new LED lights



Detail of offices with new LED lighting

With this work, a reduction in primary energy consumption of 70,278.00 kWh/year has been achieved, which is equivalent to the theoretical reduction of final "greenhouse effect" emissions calculated from the estimated primary energy savings of 12.00 TnCO₂/año..

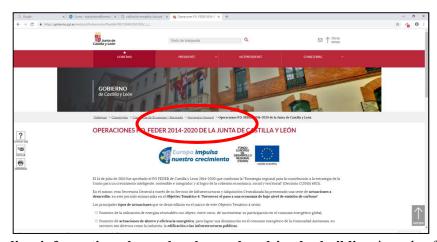
This is considered a Good Practice because it meets the following criteria:

1. The action has been appropriately disseminated to beneficiaries, potential beneficiaries and the general public.

In addition to complying with the regulatory requirements, throughout the entire contracting process, this operation has been publicised on the website of the General Secretariat of the Regional Ministry of Economy and Finance's management centre, https://gobierno.jcyl.es/web/jcyl/Gobierno/es/Plantilla100/1284653927695/_/ Once this action was completed, a video was made and published on the website.

It has also been published on the website of the General Directorate of Budgets and Statistics of the Regional Ministry of Economy and Finance,

https://hacienda.jcyl.es/web/jcyl/Hacienda/es/Plantilla100/1284305207856/ / /



The corresponding informative plaque has been placed in the building in order for the ordinary building users, whether civil servants, employees of the organisation or the public who come to seek assistance, to be informed that the intervention carried out has been co-financed by the ERDF.





This operation has been reported in the written press, through the corresponding news in different newspapers:





2. The action incorporates innovative elements

This action aimed at the renewal of energy efficiency in the building of the Territorial Delegation of the Governing Council of Castilla y León in Ávila, includes updating and modernising the lighting equipment according to state of the art equipment and performance technologies according to market supply, replacing traditional lighting systems with LED light sources.

The lighting installation must meet a set of criteria to make the activity to be carried out by the observer a comfortable task. There are many aspects to consider, since it must not create visual adaptation problems, it must provide good visual acuity, it must not obstruct the visual task and must allow comfortable postures, it must limit noise production, it must generate little thermal load, etc.

3. Adapting the results obtained to the established goals

The goal pursued with this action is to adapt historical administrative buildings, with lighting systems based on the use of traditional elements, to the new LED technologies available, allowing to improve the Energy Efficiency Certificate of the building.

With the action developed in the Territorial Delegation of Avila, an increase in energy efficiency will be achieved in their field of action, whether public administrations or citizens, energy savings in primary energy with results in economic savings and final energy, and reducing "greenhouse" CO₂ emissions to the atmosphere.

All this makes it possible to achieve the goals pursued, helping to reinforce and strengthen the efficiency and sustainability goals proposed as the ultimate and priority purpose of this operation.

4. Contribution to solving a problem or weakness detected in the territorial scope of implementation

One of the problems of the Regional Administration's buildings is that the existing lights are old, with discontinued equipment and very low performance. The success of the intervention, which is presented as a good practice, is shown in the exposed results of the update and modification of the building's CEE Energy Efficiency Certificate.

Not only have a decrease in the demand of energy consumption, saving in environmental influence and economic expenditure have been achieved, but also a supply and operation of the installation and of the building that can be classified as more sustainable and environmentally friendly.

On the one hand, a 10% reduction in primary energy consumption and an 11% reduction of "greenhouse effect" CO₂ pollutant emissions in the total building is achieved.

5. High coverage of the target population.

The installation benefits not only the people who work in the building but also the citizens in general as captive users of the building and the urban environment of the city of Ávila by reducing the total CO_2 emissions to the atmosphere.

The impact of the improvements exposed falls directly on a building that is occupied by more than 200 permanent workers and on the user/administrator who, continuously and daily use it to manage, along with the Territorial Delegation and the different Territorial Services in Avila, both administrative procedures and access to information and citizen services provided by the Governing Council of Castilla y León. In normal periods, the influx of public is usually an average of almost 5,000 people a year.

6. Consideration of the cross-cutting equal opportunities and non-discrimination criteria, in addition to social responsibility and environmental sustainability.

From the perspective of applying equal opportunities and non-discrimination criteria, the harmlessness and absence of any negative effect in relation to this horizontal principle of equal opportunities has been guaranteed. Similarly, we can say that it benefits both men and women correspondingly. In any case, we wanted to preserve the cross-cutting obligation to observe it as an essential principle in its granting, application and development.

The environmental sustainability of the operation is evidenced by the improvements in reduction and harmful emissions in terms of energy consumption and associated "greenhouse effect" stated in the mandatory update of the building's Energy Certificate.

Among the advantages of these LED light sources installed in the building of the Territorial Delegation of Avila, in relation to traditional fluorescent lamps, the following could be briefly stated: reduction of

consumption due to its greater efficiency, greater number of hours of useful life, almost flat use curve, maintaining the initial luminous flux almost until the end of its useful life, instant ignition and absence of toxic waste in case of breakage of the lamp, thus enabling the final recycling process.

7. Synergies with other policies or public intervention instruments.

This operation to readjust the lighting system and adapting the electrical installation to improve energy efficiency of the building of the Territorial Delegation of Avila, reinforces compliance with the measures defined in the Energy Efficiency Strategy of Castilla y León 2020, which was approved in 2018.

This action, which is presented as a good practice, is part of a series of other good practices developed by the Regional Ministry of Economy and Finance, through the General Secretariat, as a clear commitment of the regional administration in the field of energy efficiency with the aim of ensuring a more efficient use of energy and combating climate change in order to promote sustainable economic growth.

This Energy Efficiency Strategy of Castilla y León 2020 also responds to the goals set out in the 2030 Agenda and the European 2020 Strategy. Its goals go beyond those set by the European Union with ongoing assessment of the achievements and adjusting its actions according to the results.

The operation presented, readjustment of the lighting system and adapting the electrical installation to improve energy efficiency in the building of the Territorial Delegation of Avila, also supports the goals of the National Energy Efficiency Action Plan 2017-2020, which is set up as a central tool of energy policy of the Government of Spain, whose implementation is allowing to achieve the energy saving and efficiency goals resulting from the compliance and observance of European Directives.







Una manera de lacer Europa



Fondo Europeo de Desarrollo Regional