

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS

## Actuaciones Cofinanciadas

COMBINED ACTION OF ENERGY EFFICIENCY AND RENEWABLE ENERGIES IN THE ASSOCIATION FOR PEOPLE WITH INTELLECTUAL DISABILITIES, "VALE", LECRIN VALLEY IN DURCAL (GRANADA)

Andalusian Energy Agency

# Programa Operativo de Andalucía

Año 2020

## Fondo Europeo de Desarrollo Regional



## **COMBINED ACTION OF ENERGY EFFICIENCY AND RENEWABLE ENERGIES IN THE ASSOCIATION FOR PEOPLE WITH INTELLECTUAL DISABILITIES, "VALE", LECRIN VALLEY IN DURCAL (GRANADA)**

Andalusia promotes an energy framework in which sustainability, diversification, decarbonisation and achieving a high degree of self-sufficiency prevail, and where sustainable rehabilitation is prioritised. The energy improvement of buildings is key to achieving greater energy sustainability in the region, which will allow it to evolve towards a city model with lower energy consumption.

The actions carried out by the Association for People with Intellectual Disabilities, "VALE" Lecrin Valley, located in Durcal (Granada), which has, among other services, an early child care centre, a day care centre, and an adult and occupational therapy centre, are an example of the improvements that can be achieved with actions focused on energy efficiency and the commitment to renewable energy production.

The Association has invested EUR 232,446 in a photovoltaic installation for self-consumption, in replacing its boiler for a more efficient one, and in changing luminaires for high efficiency LED technology. To this end, it has received EUR 101,212 of incentive from the Regional Government of Andalusia, of which EUR 80,969 correspond to 80% co-funding by the ERDF. This action aims to advance the assessment and improvement of the energy efficiency of companies, in particular SMEs. Also, this project has managed, with the three actions carried out, to save the atmosphere of an estimated 151 tons of CO<sub>2</sub> per year. Just through the installation of photovoltaic solar energy that has been carried out for electric self-consumption, 80% of the centre's energy needs are sustainably supplied.



**It is considered a Project's Good Practice since it meets the following criteria:**

### **1. The ERDF's role has been suitably disseminated among the beneficiaries, potential beneficiaries, and the general public:**

The first element of dissemination has been the placement of the corresponding information plaques at the entrance of the Association premises. They disseminate each of the energy improvement actions carried out and co-funded by the ERDF.



In addition, the Andalusian Energy Agency has on its website a section for the dissemination of successful projects co-funded by the ERDF, which is registered on the single web portal of the Management Authority

and where the dissemination of this project has been promoted so that anyone can consult and download its description sheet:

<https://www.agenciaandaluzadelaenergia.es/es/financiacion/incentivos-2017-2020/fondo-feder-2014-2020>

[https://www.agenciaandaluzadelaenergia.es/sites/default/files/Documentos/Incentivos/buena\\_practica\\_aae\\_06\\_mejora\\_energetica\\_en\\_asociacion\\_discapacitados\\_vale\\_v2.pdf](https://www.agenciaandaluzadelaenergia.es/sites/default/files/Documentos/Incentivos/buena_practica_aae_06_mejora_energetica_en_asociacion_discapacitados_vale_v2.pdf)

**nº06 Actuación combinada de eficiencia energética y energías renovables en un Centro de personas con discapacidad**

Proyecto de eficiencia energética en la iluminación interior y exterior del edificio, así como en la generación de energía térmica, junto con instalación de energía solar fotovoltaica para autoconsumo.

La instalación de la planta solar fotovoltaica, el cambio de caldera de apoyo a gas por una de tipo eólica y luminarias LED. Además a cabo con el apoyo de la Agencia Andaluza de la Energía en medidas complementarias, como por ejemplo, Asociación en oferta económica y energética importante. También, en el mismo tiempo, sus acciones organizativas de aportar nuestro grado de áreas para la conexión del Medio Ambiente.

Manuel Ribera Palms, gerente

Proyecto: ASOCIACIÓN A FAVOR DE PERSONAS CON DISCAPACIDAD INTELECTUAL "VALE" VALLE DE LEORIN

Localización: Durcal (Granada)

Inversión: 232.446 € (100% de financiación por inversión con IED)

Incentivos: 101.200 € (43%)

90% cofinanciada por FEDER Andalucía 2014 - 2020

Coordinación técnica de Ingeniería Construcción Sostenible

Órgano gestor: Agencia Andaluza de la Energía

**Impacto de los proyectos:**

- Permite aprovechar los recursos energéticos autóctonos (el Sol), mejorando la eficiencia energética en el proyecto así como el ahorro de una mejora del confort y salubridad de los usuarios.
- Potencia instalada en paneles fotovoltaicos de 60 kWp.
- Autoconsumo eléctrico de 112.000 kWh/año, con un grado de cobertura del 75%.
- Reducción del 35% de energía primaria en iluminación y generación de energía térmica.
- Reducción de 151 toneladas anuales de emisión de gases gracias al ahorro de energía eléctrica y térmica en el Centro.
- Uso de tecnologías de alta eficiencia energética en la generación térmica y la iluminación.

**Mejoras al proyecto:**

- Se trata de una Asociación de apoyo a personas con discapacidad de utilidad pública.
- Activación de Centro: cuenta con una planta de 83 habitaciones para atender a 218 personas.

**Elementos que posibilita el uso procedente de los fondos FEDER para su cofinanciación:**

- Intervención por el carácter combinado de las actuaciones de sostenibilidad, su impacto en la mejora del confort de los usuarios y el alto aprovechamiento de la energía solar fotovoltaica.
- Análisis realizado en el entorno del Centro, y alto efecto multiplicador dado su carácter social, por lo que está siendo de una especial difusión realizada desde la Agencia Andaluza de la Energía a través de su Web corporativa y participación en redes sociales y de comunicación.
- Adaptación de los resultados a los objetivos y cumplimiento de resolución del problema ambiental y energético derivado de la alta intensidad de uso de combustibles fósiles en el sector residencial asistido.
- Alto grado de cobertura de la población por el amplio territorio, más allá del comarca, lo que se cubre desde el Centro como estación de apoyo de la red declarada de utilidad pública, y su impacto en la vitalidad económica del medio.
- Migración del cambio climático al fomentar el uso de energías renovables frente a combustibles fósiles y energías no autóctonas, como la de protección de parques en situación de vulnerabilidad.

**Impacto en la calidad de vida:**

El área de influencia del proyecto queda acotada en su totalidad en la propia provincia de Granada del 10 que se sitúa. Las instalaciones objeto del proyecto de mayor energía, en su referente a la importancia, sostenibilidad y alta sostenibilidad.

**Los principales beneficios del proyecto son de tipo económico, ambiental, así como para dar un mayor confort a los usuarios del Centro.**

**Mejoras económicas:**

**Mejoras ambientales:**

**Mejoras sociales:**

On the other hand, a press release has been sent for the dissemination to the public of these energy improvement actions carried out thanks to the incentives of the ERDF Operational Programme through regional and provincial media (with particular emphasis on the means of Granada, being the province in which the project is located), and among the specialised energy means.

The impact of the press release has been quite wide, as it has been published to date in 10 media, as well as on the websites of the current Regional Ministry of Finance and European Finance and the Andalusian Energy Agency. Also, in all these releases, the co-funding of the action has been mentioned as corresponding to the ERDF. Here are some examples:

<https://juntadeandalucia.es/organismos/haciendaindustriayenergia/actualidad/noticias/detalle/236106.html>

<https://www.agenciaandaluzadelaenergia.es/es/actualidad/una-asociacion-de-personas-con-discapacidad-de-durcal-ahorrara-20000-euros-al-ano-gracias-la-mejora-energetica>

<https://www.europapress.es/esandalucia/granada/noticia-asociacion-personas-discapacidad-granada-ahorrara-20000-euros-anuales-actuaciones-energeticas-20200515120608.html>

<https://www.eseficiencia.es/2020/05/19/mejoras-eficiencia-energetica-fondos-feder-centro-personas-discapacidad>

<https://www.prefieres.es/una-asociacion-granadina-de-personas-con-discapacidad-ahorrara-20-000-euros-mejorando-su-eficiencia/>

**ESEficiencia.es**  
Portal de Eficiencia y Servicios Energéticos

INICIO EFICIENCIA ENERGÉTICA SERVICIOS ENERGÉTICOS CLIMATIZACIÓN ILUMINACIÓN ENERGÍAS RENOVABLES

Inicio » Eficiencia Energética » Mejoras de eficiencia energética con fondos Feder en un centro para personas con discapacidad

**Mejoras de eficiencia energética con fondos Feder en un centro para personas con discapacidad**

Publicado: 19/05/2020

Autoconsumo fotovoltaico, una caldera más eficiente e iluminación con tecnología LED son las apuestas de la asociación Vale para reducir su factura energética. Este organismo de Granada de apoyo a personas con discapacidades y cuenta con un centro, situado en la localidad de Durcal, que atiende a más de 200 personas de la comarca Valle de Lecrín. Gracias a los incentivos aportados por la Agencia Andaluza de la Energía, la asociación puede llevar a cabo estas medidas con las que se estima un ahorro anual de 20.000 euros en la factura energética del centro.

La Agencia Andaluza de la Energía ha incentivado con 101.200 euros, dentro del Programa para el Desarrollo Energético Sostenible de Andalucía cofinanciado con fondos Feder, estas tres actuaciones solicitadas por la asociación Vale.

La Junta de Andalucía ha ofrecido su apoyo a esta asociación sin ánimo de lucro, fundada en 1982 y declarada de utilidad pública, que ha invertido 232.446 euros en una instalación fotovoltaica para autoconsumo, en renovar su caldera por otra más eficiente y en un cambio de luminarias por tecnología led de alta eficiencia.

La administración regional ha contribuido con una ayuda de más del 40% en esta inversión, permitiendo a la entidad amortizarla en apenas seis años. Estas actuaciones también supondrán un ahorro estimado en unas 150 toneladas anuales de CO2.

<https://www.granadaesnoticia.com/bxx-durcal/una-asociacion-de-personas-con-discapacidad-ahorrara-20-000-e-anauales-gracias-a-actuaciones-de-mejora-energetica>

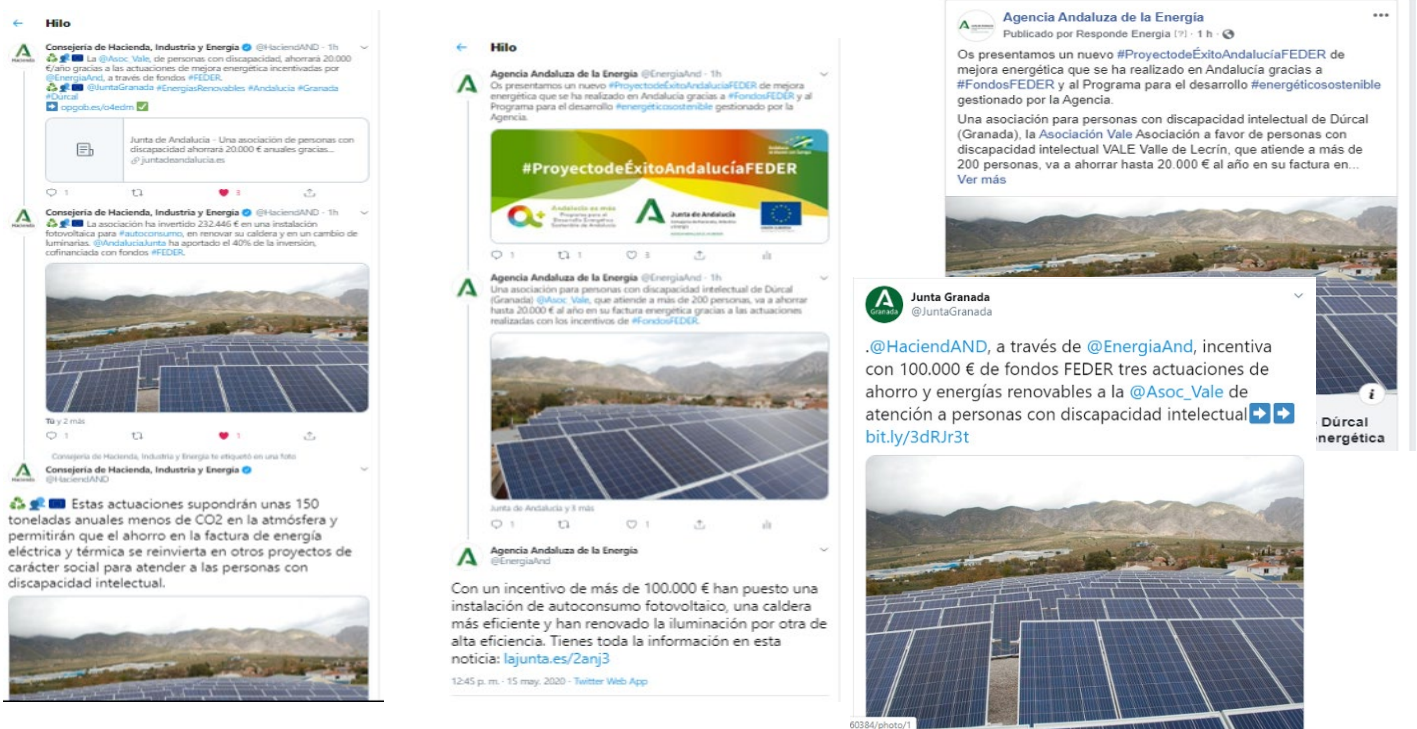
<https://www.lavanguardia.com/local/sevilla/20200515/481151402436/una-asociacion-de-personas-con-discapacidad-ahorrara-20000-euros-anauales-con-actuaciones-de-mejora-energetica.html>

For its part, the Directorate General of European Funds of the Regional Government of Andalusia has made a report for the project dissemination in the monthly digital newsletter, specifically in its 116<sup>th</sup> issue of November 2020:

<https://www.juntadeandalucia.es/economiaconocimientoempresasyuniversidad/fondoseuropeosenandalucia/buletin/newsletter/newsletter1420.php?idNews=79>

This report has also been published on the social networks of the DG of European Funds: [https://youtu.be/R7\\_Zt5ch\\_20](https://youtu.be/R7_Zt5ch_20)

In addition, the other institutions belonging to the Regional Government of Andalusia such as the current Regional Ministry of Finance and European Finance, the Government Delegation in Granada, and the Andalusian Energy Agency have made posts on Twitter to publicise the energy improvement actions carried out by the VALE Association thanks to the ERDF. These publications can be accessed here:



The scope in networks has also been multiplied by having shared some of the publications related to the project in profiles such as that of the former Councillor of Finance, Industry, and Energy or that of the Regional Government of Andalusia (the latter has more than 170,000 followers on Twitter).

The association itself, beneficiary of the incentives, has also shared some of the posts on its social media profiles, disseminating the project and its co-funding by ERDF among the Association's followers: [https://twitter.com/Asoc\\_Vale](https://twitter.com/Asoc_Vale)

The Andalusian Energy Agency created a hashtag for the dissemination in its profiles of projects co-funded by the ERDF, #Proyecto de Éxito Andalucía FEDER, which has also been used on this occasion.



## 2. The action incorporates innovative elements:

The innovative nature of the energy improvement actions carried out by the VALE Association lies mostly in the way of generating its own energy through a self-consumption facility, in the way of saving this energy and being more efficient through the replacement of the boiler to cover air conditioning and sanitary hot water, as well as in the introduction of high efficiency LED technology for indoor and outdoor lighting.

To this another innovative element must be added such as the incorporation of a system that allows to track the energy generated by the photovoltaic installation, thus facilitating the review of parameters such as electrical contracting and, more specifically, the contracted power and the associated fixed term, adapting those parameters to the actual energy needs of the association.

In addition, the new boiler installed also has an innovative element, being compatible with the use of ICTs for energy measurement and monitoring, which allows to ensure the correct functioning of the facilities and their optimal operation.

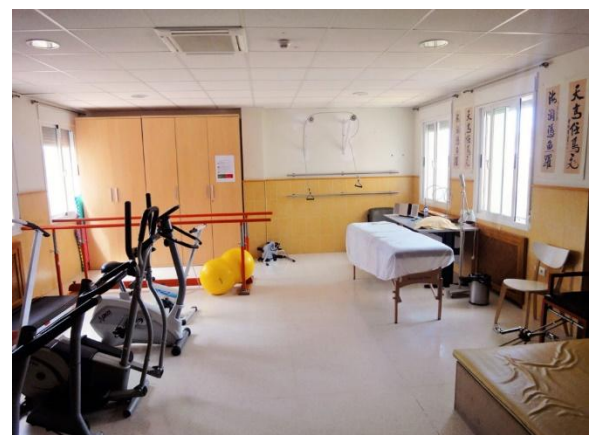


## 3. Adaptation of the obtained results to the established objectives:

There are several objectives for which the Association for People with Intellectual Disabilities, VALE Lecrin Valley has carried out investments in energy improvement actions.

The first is energy saving and, consequently, economic saving, since a more efficient use of resources means that these can be earmarked for the purpose of the partnership. Also, the actions carried out have been appropriate for the achievement of this objective, since savings of 20,000 euros per year are estimated in the energy bill, an amount that can now be devoted to social projects to care for people with intellectual disabilities and their families.

Another result achieved, and which was a priority for the association, was to increase the comfort and well-being of the users of its facilities. With the replacement of the boiler for



another one with a very high energy classification, which gives coverage to air conditioning and sanitary hot water and that also supports the use of ICT for energy measurement and monitoring, the correct maintenance and optimal operation is ensured, which results in the well-being of users. In addition, this new system is compatible with the use of underfloor heating in the shed workshop, thus improving comfort in the use of that part of the centre. In addition, increased quality in indoor and outdoor lighting by changing the existing system to another one with high efficiency LED technology has had a positive impact on the well-being and comfort of users and workers.

#### **4. Resolution contribution of a regional problem or weakness:**

The energy improvement actions carried out in the association contribute to solving an environmental and energy problem arising from the high intensity of fossil fuel use in the Andalusian healthcare sector.

These types of centres are energy intensive, as they are operational 24 hours a day, 365 days a year. In addition, their proper functioning implies special requirements, both regarding air conditioning and air quality, and disease control.

Therefore, having carried out all these actions for energy improvement and the use of renewable energies at the association premises may be exemplary among other entities in its sector, since in addition to solving the problems arising from the use of fossil fuels, such as polluting emissions or high energy bills, the comfort of users has been increased and significant economic savings have been achieved that can be used for the centre's own healthcare activities, with a significant impact on the economic viability of the association.



#### **5. High target population coverage:**

The Association for People with Intellectual Disabilities, VALE, located in Durcal (Granada), directly serves more than 200 people from the area of the Lecrin Valley, which has a population of approximately 23,000 inhabitants and encompasses the villages of El Padul, Durcal, Villamena, Nigüelas, Albuñuelas, El Valle, Lecrin, and El Pinar, as well as people from neighbouring regions and Granada capital.

It employs 83 people and has a day care centre with occupational therapy, a nursing home, an early childhood care centre, and a centre for the severely affected. Therefore, the actions carried out have a high degree of coverage over the population since these affect the users of the different units of the centre and their families, as well as the workers of the association, and the entire area of influence of the centre in general, which is quite wide.

The coverage on users and employees has been 100%, to which it should be added that the savings achieved through the energy improvement actions will impact the care activities of the centre, which may also mean an increase in the number of people directly benefited by these actions.



**6. The horizontal criteria for equal opportunities and non-discrimination, environmental sustainability and/or social responsibility have been taken into account:**

Environmental sustainability has been one of the main criteria in the actions carried out, having opted for the use of indigenous energy resources (the sun) with the installation of photovoltaic solar energy for self-consumption, and on energy efficiency with the change of the boiler and lighting.

The criteria of social responsibility, equal opportunities, and non-discrimination are intrinsic to the nature of the association, which serves people with intellectual disabilities and their families.



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

The action enhances synergies with various instruments of public intervention. It does so with the Energy Strategy of Andalusia 2020, which in its Action Plans includes measures to improve energy in public buildings dependent on the Directorate General of Persons with Disabilities and Inclusion of the Regional Ministry of Equality, Social Policies and Conciliation.

This has also been achieved through the law on the promotion of renewable energy sources and energy saving and efficiency of Andalusia, which promotes the development of actions such as those carried out in the association, and the law on rights and care for people with disabilities of Andalusia, the target collective of the VALE association.



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