

Una manera de hacer Europa



BUENAS PRÁCTICAS

Actuaciones Cofinanciadas

Integrating industrial energy improvement in the andalusian agri-food sector. Olive oil bottling factory in Dos Hermanas (Seville)

Andalusian Energy Agency

Programa Operativo de Andalucía

Año 2022

Fondo Europeo de Desarrollo Regional

INTEGRATING INDUSTRIAL ENERGY IMPROVEMENT IN THE ANDALUSIAN AGRI-FOOD SECTOR. OLIVE OIL BOTTLING FACTORY IN DOS HERMANAS (SEVILLE)

Project Overview

The Andalusian Energy Agency presents an example of its Best Practice, consisting of the aid granted through the **Sustainable Energy Development of Andalusia 2020 Incentive Programme, "Andalucía es más"**, which offers two lines of incentives:

SUSTAINABLE SMEs to encourage Andalusian SMEs to shift to a more efficient and competitive energy management model in every sector of activity, except the raw materials and agri-food sectors. With a budget of **36.7 million euros**, it offers aid for 22 different types of actions. It will finance between 25% and 50% of the cost of projects including electricity self-consumption, renewable energies, cogeneration, equipment renewal, harnessing waste-to-energy and transport fleet management systems.



SUSTAINABLE CONSTRUCTION, which has a budget of 180 million euros. With 38 different types of available actions, the investments target energy saving, energy efficiency, use of renewable energies and infrastructures in buildings, for private or public use, located in the Autonomous Community of Andalusia, which help the community optimise their energy use, paying particular attention to disadvantaged groups.

As part of the scheme, **subsidies were granted in the province of Seville**. The **TORRES Y RIBELLES S.A.** company in Dos Hermanas was chosen as an example.

This olive oil bottling company, founded in 1914, bottles more than 25 million litres of olive oil a year. It has two packaging lines, one for glass or PET bottles and the other for cans. This **energy improvement project, based on exterior insulation, renovation of equipment and installations for greater efficiency, and new renewable energy systems**, has made it possible to harness the sun and other energy sources and to reinforce an energy control and monitoring system for optimisation. All of this has resulted in generating 146,240 KWh/year (54% self-consumption level), which has meant a **25% reduction in the factory's energy consumption**.

The project had a total cost of 821,701 euros, of which, **280,826 euros were provided by the ERDF's aid**.

The aim of this project was to make progress in assessing and improving the energy efficiency of companies, particularly SMEs, in order to achieve a final energy intensity of 0.080 Ktoe/M€ by 2023, compared to 0.082 in 2019. And to promote the use of renewable energies by companies, in particular SMEs, to reach a primary energy consumption from renewable sources for thermal use of 1,200 Ktoe/year in 2023 compared to the value of 933.20 reached in 2019.

The arguments for this project being considered Best Practice are listed below, in accordance with the criteria defined for this purpose:

Criterion 1. Widespread dissemination among both beneficiaries and the general public.



Firstly, the beneficiary installed **informative posters** (a communication requirement for fund beneficiaries) in its headquarters, which explain each of the energy improvement actions carried out and co-financed with the ERDF, as can be seen in this photograph.

Secondly, the Andalusian Energy Agency, as the body coordinating the grant, has communicated on several platforms. Its **website**, which is linked to the single web portal of the Managing Authority, includes a **section on successful projects co-financed with the ERDF**. There you can consult and download the **fact sheet** for this subsidised project:



A press release was also prepared on this project, carried out thanks to funding from the Andalusian

ERDF Operational Programme. In addition to being sent to the general (especially regional) and specialised media, the press release was published on the website of the then Ministry of Finance and European Funding of the Andalusian Regional Government and the Andalusian Energy Agency.

The press release has had quite an extensive impact, having been published in eight media outlets so far, all of which mention the ERDF co-financing. It was also published in Olimerca, a magazine specialising in the olive and olive oil sector, which is noteworthy because it boosts the project's exemplary nature by promoting it among other companies in the same sector.



Below are some examples of the news published in different outlets:

europapress / epagro

Actualizado 07/05/2020 10:1

Una envasadora de aceite de Dos Hermanas (Sevilla) recibe más de 280.000€ de fondos Feder para su mejora energética



Sevilla - Una envasadora de aceite de Dos Hermanas recibe más de 280.000 de los - JUTIS
DOS HERMANAS (SEVILLA), 7 May. (EUROPA PRESS) -

La Agencia Andaluza de la Energía, entidad adscrita a la Consejería de Hacienda, Industria y Energía, ha incentivado con más de 280.000 euros procedentes del Programa para el desarrollo energético sostenible de Andalucía, cofinanciado con Fondos Feder, las actuaciones de mejora energética llevadas a cabo por una fábrica de envasado de aceite de oliva de Dos Hermanas (Sevilla).



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Más de 280.000 euros para la mejora energética de una fábrica en Sevilla

Publicado: 11/05/2020



La **Agencia Andaluza de la Energía** ha incentivado con más de 280.000 euros las actuaciones de mejora energética llevadas a cabo por una fábrica de envasado de aceite de oliva de Dos Hermanas (Sevilla). Entre las medidas desarrolladas, destaca una instalación solar fotovoltaica en régimen de autoconsumo, que abastece el 54% del consumo eléctrico de la fábrica.

Una envasadora de aceite de Dos Hermanas (Sevilla) recibe más de 280.000€ de fondos Feder para su mejora energética

20 Minutos



viernes, 8 de mayo de 2020

La Agencia Andaluza de la Energía, entidad adscrita a la Consejería de Hacienda, Industria y Energía, ha incentivado con más de 280.000 euros procedentes del Programa para el desarrollo energético sostenible de Andalucía, cofinanciado con Fondos Feder, las actuaciones de mejora energética llevadas a cabo por una fábrica de envasado de aceite de oliva de Dos Hermanas (Sevilla).

Éstas incluyen medidas de automatización de procesos y aislamiento térmico del edificio, gracias a las cuales se reduce un 25% el consumo energético de la empresa, así

como una instalación solar fotovoltaica en régimen de autoconsumo, que abastece el 54% del consumo eléctrico de la fábrica, según ha informado la Junta de Andalucía en una nota de prensa.

The project was also **widely shared on social media**:

The Andalusian Energy Agency published details of the project, highlighting the ERDF's co-financing on Twitter and Facebook. The project was shared using the hashtag **#ProyectoDeÉxitoAndalucíaFEDER**, which groups the different posts on projects co-financed by ERDF funds from the Andalusian Energy Agency's profiles. The Regional Ministry of Finance and European Funding also published about the project from their Twitter profile:



These publications had a significant reach as they were **shared from public profiles** such as that of the Andalusian Regional Minister of Finance and the Delegation of the Andalusian Government in Seville. Furthermore, the outlets that covered the news also shared it on their social networks.

It is worth noting that, as a clear indication of their involvement in the project, the collaborating entity that managed the grant on behalf of the beneficiary also shared the results of the project on its Twitter profile, with ERDF co-financing appearing prominently.

Finally, the grant beneficiary carried out various dissemination actions such as **publishing a news item on its corporate website** and **sharing it on its social media networks** to communicate its commitment to sustainability and the results of the project, co-financed with the ERDF incentives:



5:06 p. m. · 5 dic. 2019 · Hootsuite Inc.

Criterion 2. Incorporating innovative elements.

The measures developed by the company, which have led to a comprehensive improvement in its production process, are based precisely on the incorporation of innovative elements, specifically the use of a new technology, 75% of which was developed in Andalusia, which automates all the steps involved in oil filtering. Upgrading to highly energy-efficient machinery and the automation of the processes have led to an improvement in the efficiency of the oil filtering process, which is between 30% and 40% compared to other systems.

In addition, a solar photovoltaic installation was included for independent energy generation, with an expected output of 99.5 kW, which supplies more than half of the electricity consumption and which also incorporates, as an innovative element, an energy control and monitoring system for full optimisation.

Criterion 3. Aligning the results with the established objectives.

Torres y Ribelles carried out the work with several objectives in mind, including increasing productivity and, therefore, the company's competitiveness. This was achieved by replacing the existing models with more energy-efficient machinery and automating the processes, which has improved the efficiency of the oil filtering process.

It has also improved its energy efficiency, made energy savings and, consequently, reduced the electricity bill, by optimising the thermal insulation of the factory building. This also fulfilled the objective of improving working conditions and safety, which was one of the main objectives and which, quantitatively, has been estimated to save 3,000 euros a year in absences due to medical reasons.



In addition, the installation of photovoltaic solar energy supplies 54% of the factory's energy consumption, thus achieving the objective of having a renewable energy supply and its environmental advantages, as well as the economic benefits that were previously mentioned.

Combined, these two measures have cut the factory's energy consumption by an estimated 25%. This energy and environmental impact is further reinforced by the implementation of the energy control and monitoring system for full optimisation.

Criterion 4. Contributing to the resolution of regional problems or weaknesses.



This project contributed to resolving the issue of high fossil fuel consumption that many companies in the Andalusian agri-food sector have, as it demonstrates that by implementing renewable energies and carrying out actions that improve energy efficiency, productivity is increased and contributes to making a small company in the sector both more efficient and competitive.

Furthermore, one of the barriers small and medium-sized companies face in Andalusia is the lack of investment in innovation. As innovation is at the heart of the work carried out by Torres and Ribelles, they can serve as an example for other SMEs in the region.

Criterion 5. Reaching a high percentage of the target population.

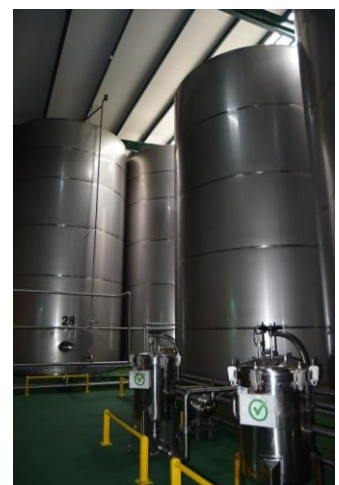
Torres y Ribelles has an annual oil bottling volume of over 25 million litres, with a bottling capacity of 150,000 litres of olive oil in an 8-hour working day, and currently exports 90% of its production. In 2019, the company was even awarded a prize at the European Business Awards in Spain in the International Expansion category. In addition to this broad international coverage, the company participates in numerous trade fairs in the sector and shares its commitment to sustainability on its website, social networks and newsletter.

The EDRF-supported work, therefore, reaches a lot of the target population, both in terms of customers, marketers and in the wider agri-food sector, as well as the company's own employees.

Criterion 6. Consideration of the cross-cutting criteria of equal opportunities and environmental sustainability.

The very nature of this project contributed to environmental sustainability, as the existing machinery was replaced with more energy-efficient models, renewable energy will be used in the energy supply from now on and the factory building's thermal insulation has been improved. All of these elements will increase overall energy efficiency while reducing energy consumption and greenhouse gas emissions.

Social responsibility has also been taken into account, especially for the workers, as one of the main reasons for the company to act on the insulation of the building was to increase the comfort of the employees, thus increasing the quality and safety at work. It also promotes equal opportunities, since, despite being a small company with 25 employees, there is an equal number of men and women working in training positions.



Criterion 7. Synergies with other policy areas and public intervention instruments.

The work synergised with various public intervention instruments. It fully aligns with the Strategic Plan for the Andalusian Agroindustry 2020, which advocates "establishing energy efficiency measures in production

processes, renewable energies and the use of alternative energy sources" to promote the sustainability of Andalusian agri-food industries.

It also complies with the Andalusian Energy Strategy, whose Improving Competitiveness programme is dedicated to making Andalusian companies and the Andalusian economy more competitive through greater efficiency in the use of energy and the promotion of innovation for the development of new energy products and processes.



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