Junta de Andalucía

POWERTY
Interreg Europe
European Union
European Regional
Development Fund

Consejería de la Presidencia, Administración Pública e Interior

Consejería de Hacienda y Financiación Europea

Agencia Andaluza de la Energía

# POWERTY

## Renewable energies for vulnerable groups

## STUDY VISIT Nº 1

## OLA SOLAR

## Lebrija (Spain) – 12 of September 2019

Interreg Europe
European Union | European Regional Development Fund

**#POWERTY**

**Web** **https://www.interregeurope.eu/powerty/**

# 1. INTRODUCTION

In the framework of the Kick-off meeting of the POWERTY project held in Seville, Spain on 12th and 13th September 2019, the Andalusian Energy Agency, as lead partner of the project, organised a study visit which was attended by all partners.

The objective of the study visit was to learn more about the works developed and implemented by the non-profit company ECOOO, member of the Andalusian stakeholders group.

Previously to the study visit, in the offices of the Andalusian Energy Agency, ECOOO, represented by Genevova López, presented their initiative to partners about renewable energies and vulnerable groups, as well as other works they are involved in, and their collaboration with labour insertion bodies which make it easier for vulnerable groups to enter the renewable energy labour market.

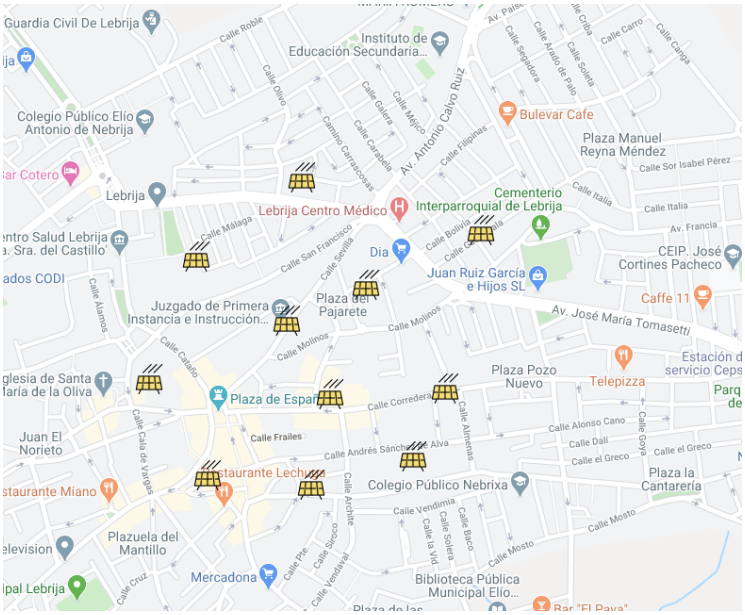
In this sense, partners realised the projects first study visit to a collective photovoltaic solar energy installation in the town of Lebrija (province of Seville), promoted by ECOOO. This initiative, called Lebrija Solar Wave ("Ola Solar de Lebrija"), has installed collective PV solar energy installations on the roofs of 11 municipal buildings in Lebrija, ceded by the Town Hall (public schools, a day centre for the elderly, a fire station, a sports centre, etc.). The highlight of this initiative is that it is a collective renewable energy facility, in which renewable energy is generated in a way which promotes citizen participation and supports an economy that is more respectful of the environment and people. POWERTY project partners visited one of these installations, concretely on the roof of a school, accompanied by Conrado Gonzalez of ECOOO.

# 2. DESCRIPTION AND LOCATION

The address of the photovoltaic plant visited is: C/ Huracán nº35 - 41740 Lebrija:

The 11 pv installations can be consulted at the following link:

https://www.google.com/maps/d/u/0/viewer?mid=11jqmJc9_5bj3LMuCK6nOGS1FaZM&ll=36.92056238923359%2C-6.0749511117202 25&z=16




→ *The 11 PV installations that make up the ECOOO plant in Lebrija.*

## 3. TECHNICAL DATA

The 11 pv installations have a total peak power of 233 kW, with an annual production of 350,738 kWh, equivalent to the electricity consumption of 117 homes, which is preventing the emission of 103 tonnes of CO2 into the atmosphere each year, equivalent to the emissions from driving 665,000 km by car.

The capture surface area is 7,200 m2.

This facility, like all those marketed by ECOOO, has been recognised by the Spanish Ministry of Industry for 30 years since its start-up as having a reasonable profitability. This profitability is defined in Royal Decree 413/2014, of 6 June, which regulates the activity of electricity production from renewable energy sources, cogeneration and waste as 300 points above the average return on ten-year government bonds in the secondary market. Each of these plants is registered in the Register of Special Regime Electricity Production Facilities, which is part of the Ministry of Industry, and which ensures them the relevant remuneration so that they have this

reasonable return as a business. Likewise, they comply with all the requirements of current legislation on the subject and are in perfect working order. These remunerations or complements are reviewed every three years, based on the price of electricity in the electricity market, and every six years based on the ten-year state bond. In this way, the profitability of these plants is linked to the real economy.

## 4. CONCLUSSIONS

**Citizen participation:**

Citizens have been able to participate in this project from a reduced investment of only 100 euros, as "co-participants" in the installation. More than 150 people have participated and the profitability obtained has reached 6% after taxes.

**Other benefits:**

ECOOO wanted to make visible the positive impact that the Lebrija Solar Wave project has on the environment by sponsoring cherry trees planted in the Valle del Jerte (Cáceres). In this sense, there are 11 cherry trees, one for each photovoltaic installation in Lebrija, and citizens who participate in the mentioned project can collect the cherry fruit from the trees that they co-own.

## 5. ANNEX

The slides (in ppt) presented by ECOOO, as well as photos from the study visit, are included as part of the Annex to this report and can be downloaded at the followiing link.

http://soporte.agenciaandaluzadelaenergia.es/owncloud/index.php/s/HkA4Sn5ZrJw3nl5