



# Action Plan of the **POWERTY** Project

Renewable energies for vulnerable groups

**May 2022**

**POWERTY**  
Interreg Europe



**Junta de Andalucía**

Consejería de la Presidencia, Administración  
Pública e Interior

Consejería de Hacienda y Financiación Europea

Agencia Andaluza de la Energía

# Contenido

<b>1. PART I – GENERAL INFORMATION</b>	<b>3</b>
<b>2. PART II – POLICY CONTEXT</b>	<b>3</b>
<b>3. PART III – DETAILS OF THE ACTIONS ENVISAGED</b>	<b>5</b>
3.1. ACTION 1: RENEWABLE ENERGY FINANCING FORMULA FOR VULNERABLE GROUPS	5
3.1.1. BACKGROUND	5
3.1.2. ACTIONS TO BE IMPLEMENTED	5
3.1.3. PLAYERS INVOLVED	5
3.1.4. TIMEFRAME	6
3.1.5. COST	7
3.1.6. FUNDING SOURCES	7
3.1.7. POLICY INSTRUMENT TO BE IMPROVED	7
3.2. ACTION 2: REDUCTION OF ENERGY POVERTY IN THE ELDERLY PEOPLE IN ANDALUSIA	8
3.2.1. BACKGROUND	8
3.2.2. ACTIONS TO BE IMPLEMENTED	8
3.2.3. PLAYERS INVOLVED	9
3.2.4. TIMEFRAME	9
3.2.5. COST	10
3.2.6. FUNDING SOURCES	10
3.2.7. POLICY INSTRUMENT TO BE IMPROVED	10
3.3. ACTION 3: PROMOTION OF THE ENERGY COMMUNITIES INCLUDING VULNERABLE GROUPS	11
3.3.1. BACKGROUND	11
3.3.2. ACTIONS TO BE IMPLEMENTED	11
3.3.3. PLAYERS INVOLVED	12
3.3.4. TIMEFRAME	12
3.3.5. COST	13
3.3.6. FUNDING SOURCES	13
3.3.7. POLICY INSTRUMENT TO BE IMPROVED	13
CONCLUSIONS	13

## 1. Part I – General information

- ✓ **Project:** POWERTY project – Renewable energies for vulnerable groups.
- ✓ **Interreg Europe Web:** <https://www.interregeurope.eu/powerity/>
- ✓ **Regional Web:** <https://www.agenciaandaluzadelaenergia.es/es/la-agencia/proyectos-internacionales/proyectos-europeos/powerity>
- ✓ **Partner organisation:** Andalusian Energy Agency, Andalusian Regional Government (ANDALUSIAN ENERGY AGENCY).  
<https://www.agenciaandaluzadelaenergia.es/en/knownagency>
- ✓ **Country:** Spain.
- ✓ **NUTS2 region:** Andalusia.
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## 2. Part II – Policy context

The Action Plan aims to impact:

- ✓ **Investment for Growth and Jobs programme.**
- European Territorial Cooperation programme.
- ✓ **Other regional development policy instrument.**

Name of the policy instrument addressed:

The policy instrument indicated in the Application Form (AF) concerns the regional ERDF programme 2014-2020. However, the action plan will not directly improve the regional policy instrument addressed in the AF because a new framework has been created. Therefore, this action plan is aimed at improving the follow policy instruments: the "**Energy Strategy for Andalusia 2030**", the "**Regional ERDF programme 2021-2027**" (new framework), and the "**1st Comprehensive Strategic Plan for the Elderly in Andalusia 2020-2023**".

Firstly, the "**Energy Strategy for Andalusia 2030**" is the main document in energy planning of the Andalusian Regional Government, aimed to achieve an efficient, sustainable, safe and carbon-neutral energy model that takes advantage of indigenous renewable resources and serves as a motor for economic growth and job creation, increasing the welfare of its citizens, reducing inequalities, and contributing to the fulfilment of national and European energy and climate objectives.

This strategy is based on the general guidelines ("Energy Guidelines 2030") that have been previously elaborated by the Andalusian Energy Agency, as Technical Secretariat and part of the Editors Group set up by the Andalusian Regional Government, counting on the collaboration of more than 100 agents and expert entities in energy matters, some of which are stakeholders of the POWERTY project. This "Energy Guidelines 2030" has already been approved and published.

The formal approval of the "Energy Strategy for Andalusia 2030" (based on mentioned guidelines), in which the Andalusian Energy Agency will incorporate the results obtained from this action plan, is expected during the first semester of 2022 and will incorporate a specific plan containing measures for the years 2021 and 2022.

Secondly, the Andalusian Energy Agency, as part of the technical support team to the "**Regional ERDF programme 2021-2027**", will include guidelines related to incentives for renewable energies for vulnerable groups (action 1) and for energy communities including these groups (action 3) accordingly with the results of some actions included in this action plan.

And finally, the "**1st Comprehensive Strategic Plan for the Elderly in Andalusia 2020-2023**", is aimed to promote the well-being of the elderly in Andalusia and provide them with care based on prevention, sustainability, and comprehensive and continuous care, so that they can fully enjoy their rights. Recognising that the social energy bonus in Spain is an insufficient mechanism to tackle energy poverty, the Andalusian Regional Government has prepared this "1st Comprehensive Strategic Plan for the Elderly in Andalusia 2020 - 2023", which has required a prior diagnosis of energy poverty in the elderly group, carried out by the Andalusian Energy Agency as part of the POWERTY project in semester 1, which has led to a line of action incorporated in this Strategic Plan, called, Program P3\_3 for the reduction of energy poverty in the group of older people, whose objective is to facilitate a safe, clean and reliable energy supply to this group, based on renewable energies.

#### Webs:

#### **Energy Strategy for Andalusia 2030:**

<https://www.agenciaandaluzadelaenergia.es/es/transicion-energetica/directrices-energeticas-de-andalucia-horizonte-2030>

## I Comprehensive Strategic Plan for the Elderly in Andalusia 2020-2023:

<https://juntadeandalucia.es/organismos/transparencia/planificacion-evaluacion-estadistica/planes/detalle/208782.html>

### 3. Part III – Details of the actions envisaged

#### 3.1. Action 1: Renewable energy financing formula for vulnerable groups.

##### 3.1.1. Background

The following good practices identified during the learning process of the POWERTY project by AURA-EE (France), called production of renewable energies through collective investments of citizens in Voiron ([link](#)), and sponsorship to enable residents of social housing to reduce their bills thanks to solar electricity ([link](#)), and the GP identified by VIPA (Lithuania), called the Energy Efficiency and Renewable Energy Source investment platform ([link](#)), have inspired this action.

##### 3.1.2. Actions to be implemented

The aim of this action is to incorporate new financing formulas for vulnerable groups as part of the “Energy Strategy for Andalusia 2030” (called “Strategy”). Given that the Strategy is currently in process, the first sub action for the Andalusian Energy Agency, as a technical assistance of this Strategy, is to propose a specific action line in it tackling the mitigation of the energy poverty inspired by POWERTY, giving us the framework for further development of this action. As mentioned, the “Energy Strategy for Andalusia 2030” is expected to be approved before July.

Once the Energy Strategy is approved, the AEA will start developing this measure, based on an initial installation of 2 collective solar photovoltaic self-consumption facilities in vulnerable homes financed with a **participatory financing (crowdlending)**. The AEA will contact a different crowdlending platform to present this initiative. Initially, it will be the AEA staff who will contribute directly to the participatory financing and a NGO will select the vulnerable homes. The AEA will also contact an ESCO to install the PVs and monitor them. It is worth mentioning that, in November 2021, this idea was awarded as the best innovative measure to combat energy poverty in the Germinador Social Award 2021, receiving an initial amount to implement the project.

Finally, with the results obtained, the action is expected be extended to the Andalusian Regional Government, where its staff will be involved in the participatory financing and other investors such as SMEs and companies could be included with its corporate social

responsibility. We will also analyse how this type of financing could be supported by “Regional ERDF programme 2021-2027”, contributing directly with these funds to the existing crowdlending platforms, creating new ones or including this kind of platform as a preferential complementary financial line for the incentive schemes funded by ERDF Funds.

The result of this action line will also be reported as a result of the Energy Strategy for Andalusia 2030 during phase 2 of the POWERTY project

### 3.1.3. Players involved

The players involved in this action are:

- **Andalusian Energy Agency Staff** who will participate in the first crowdlending financing initiative.
- An **ESCO** which will set up the collective solar photovoltaic self-consumption facilities.
- A **NGO** which will select the vulnerable houses where the collective solar photovoltaic self-consumption facilities are being set up.
- A **crowdlending platform** to manage the participatory financing.
- Once the initiative is extended, **other public staff and private investors** who will participate in new projects.

### 3.1.4. Timeframe

The different activities and their timeframe to be implemented for this action are described below:

ACTIVITIES OF THIS ACTION	MONTH OF PHASE 2
Approval of the “Energy Strategy for Andalusia 2030” (called “Strategy”) including a reference to a new financial mechanism for vulnerable groups and renewable projects	July to September 2022
Andalusian Energy Agency receive the economic award of the Social Germinador 2021 to implement the first project	September 2022
NGO select the vulnerable homes where the PV installation is more adequate	August 2022 to October 2022
Contract the ESCO to install the 2 collective PV installations	October 2022

<b>ACTIVITIES OF THIS ACTION</b>	<b>MONTH OF PHASE 2</b>
Set up the 2 collective PV installations	November 2022 to February 2023
Monitoring the 2 collective PV installations	March 2023 to July 2023
Extension of the initiative to the Regional Government and other private investors	March 2023 to July 2023
Include the crowdlending platforms as a preferential financial mechanism under the Regional ERDF programme 2021-2027	March 2023 to July 2023
Follow-up of the line in the "Energy Strategy for Andalusia 2030".	March 2023 to July 2023

### **3.1.5. Cost**

The budget of this action is 12,000 € for setting up the pilot 2 collective PV installations. 6.000 € comes from the Germinador Social Award and 6.000 € from AEA own resources. The budget for new initiatives cannot be defined yet.

### **3.1.6. Funding sources**

The origin of the funds comes from the 1st Special Prize of the Social Germinator 2021 for setting up the 2 collective PV installations pilot and AEA own resources. This amount will be the one that will be reported in the Energy Strategy for Andalusia 2030. The budget for new initiatives funded by the Andalusian ERDF 2021-2027 cannot be defined yet.

### **3.1.7. Policy instrument to be improved**

The policy instrument to be improved with this action is the "Energy Strategy for Andalusia 2030".

## **3.2. Action 2: Elderly people as energy advisors of elderly people.**

### **3.2.1. Background**

The following good practices identified during the learning process of the POWERTY project by EAP (Bulgaria), called sustainable reduction of energy consumption of low-income households through energy advice ([link](#)) and by AURA-EE (France) named "Habiter Mieux sérénité" to accompany households on their way out of fuel poverty ([link](#)), have inspired this action.

### **3.2.2. Actions to be implemented**

The aims of the action is to improve the policy instrument "1st Comprehensive Strategic Plan for the elderly in Andalusia 2020 – 2023" (called "Plan"). As mentioned in the Policy context, this Plan was approved in November 2020 including a specific line focused on the reduction of elderly energy poverty which was proposed by the Andalusian Energy Agency as result of the analyses carried out in POWERTY. It was possible due to the participation of the Andalusian Energy Agency as part of the Technical Committee to set up the elaboration of the Plan.

Although the Plan was approved, it did not include any specific actions to be undertaken under the programme to reduce energy poverty among the elderly. Therefore, with this action, the AEA will provide a specific action for this Plan.

This action consists on the creation of a network of elderly people as energy advisers for elderly people. On one hand, to give the elderly people knowledge so that they know the energy measures they can carry out to reduce their electricity bill and improve their living conditions and quality of life at home. On the other hand, to empower them and make them feel more useful to society by contributing their knowledge and their time to help other elderly people to reduce their electricity bill and improve their quality of life at home.

To carry this out, the AEA, with the support of the General Directorate for the Elderly of the Andalusian Regional Government, will contact at least 8 "Active Participatory Centres" (CAP), one per province, to organise the energy trainings that will be developed through active and participatory workshops on energy efficiency, focusing on the opportunities of the renewable energies and the benefits of the energy communities.

The material for the trainings will be prepared and the workshops will be celebrated. The material will include different tools from different projects, with which the Andalusian Energy Agency has collaborated under the framework of the POWERTY project, such as



the [toolkit](#) coming from the POWERPOOR project related to identifying energy poor citizens with a simple data driven approach (Power Target), enabling them to understand their energy use (Power Act) and propose tips and tricks to enhance energy efficiency, communicate innovative financing – energy communities and crowdfunding (Power Fund).

As a result of the workshops, the elderly people who were more active and interested will be invited to take part in this network of energy advisors that will be constituted using a virtual platform, where information about the energy trainings will be included.

The energy advisors will put what they have learned into practice by carrying out energy audits on the elderly in the format that is considered most appropriate to respect the safety and trust of elderly people. The results of these energy audits focusing on energy poverty will be included in the reports of the Plan.

The result of this action line will also be reported as result of the Energy Strategy for Andalusia 2030 during phase 2 of the POWERTY project

### 3.2.3. Players involved

The players involved in this action are:

- **Andalusian Energy Agency** as a renewable energy expert to support this action.
- **Elderly Citizens and Non-contributory pensions Directorate of the Regional Ministry of Equality, social policies and conciliation (Andalusian Regional Government)**, as a leader of the “I Comprehensive Strategic Plan for the elderly in Andalusia 2020 – 2023” and manager of the CAP.

### 3.2.4. Timeframe

The different activities and their timeframe to be implemented for this action are described below:

ACTIVITIES OF THIS ACTION	MONTH OF PHASE 2
Contact with the Active Participatory Centres and a planning of the different training sessions.	September 2022
Create the material of the energy training.	September 2022 to November 2022

Launch the energy training in the different Active Participatory Centres.	December 2022 to January 2023
As a result of the training sessions, set up of a network of elderly energy advisors.	January 2023 to March 2023
The elderly energy advisors visit the elderly people to assess them on how to reduce the energy bill and implement renewable energy.	January 2023 to March 2023
Follow up reports of the Plan.	July 2023

### **3.2.5. Cost**

The budget of this action is EUR 30.000 – 40.000.

### **3.2.6. Funding sources**

The origin of the funds come from own resources of the AEA.

### **3.2.7. Policy instrument to be improved**

The policy instrument to be improved with this action is the “1st Comprehensive Strategic Plan for the elderly in Andalusia 2020 – 2023”.

### 3.3. Action 3: Roadmap to promote energy communities including vulnerable groups.

#### 3.3.1. Background

The following good practice identified during the learning process of the POWERTY project presented by **AURA-EE (France)** called "[Production of renewable energies through collective investments of citizens in Voiron](#)" inspired this action. Also, the different POWERTY Interregional Thematic Seminars carried out during phase 1 which discussed the role of **energy communities** as a solution to include vulnerable groups should be highlighted. Finally, the results of the regional seminar of the POWERTY project held on [28 January 2021](#) with the Andalusian stakeholders, showed strong interest for energy communities and the need to overcome many barriers to create an energy community. In particular, our POWERTY stakeholder "Local Group of Seville of the energy cooperative Som Energía" has created the non-profit legal entity "**Torreblanca Ilumina Association**", which is assuming the role of "driving group" of the Energy and Educational Community (EEC) that they plan to develop in Torreblanca.

#### 3.3.2. Actions to be implemented

The aim of this action is to include a specific plan named "roadmap" to develop energy communities addressing energy poverty as part of the "Energy Strategy for Andalusia 2030" (called "Strategy"). Given that the Strategy is currently in process, the first sub action for the Andalusian Energy Agency, as a technical assistance of this Strategy, is to propose a specific action line in it, tackling energy communities and energy poverty inspired by the pilot action carried out by POWERTY in Torreblanca (Seville), giving us the framework for further development of this action. As mentioned, the "Energy Strategy for Andalusia 2030" is expected to be approved before July.

Once the Energy Strategy is approved, the AEA will start developing this measure, based on the knowledge acquired in the pilot action. The roadmap will contain all the necessary steps to develop energy communities for vulnerable groups, starting with the legal requirements and the role of the municipalities to support these initiatives, as it was analysed in the pilot action.

The roadmap will also include measures for the dynamisation of the vulnerable groups and financial solutions that could be implemented to support the energy communities.

As for the legal requirement, the inputs for the elaboration of these measures come from the pilot action of the POWERTY project.

The roadmap will be shared at regional level in the Round Table for Self-consumption, set up by the Andalusian Regional Government (Junta de Andalucía) to promote the development of self-consumption in our region. In the framework of this Round Table a specific group on energy communities has been set up. The Andalusian Energy Agency is part of this working group.

At national level, the roadmap will be shared with other energy agencies in the framework of the working group led by the Andalusian Energy Agency.

This roadmap will also be used as a guideline for establishing a specific subsidy scheme under the framework of the Operational Programme that manage the ERDF 2021-2027 that takes into account the social and economic nature of vulnerable groups in the development of the energy communities

The result of this action line will be reported as result of the Energy Strategy for Andalusia 2030 during phase 2 of the POWERTY project.

### 3.3.3. Players involved

The player involved in this action is the **Andalusian Energy Agency**.

### 3.3.4. Timeframe

The different activities and their timeframe to be implemented for this action are described below:

ACTIVITIES OF THIS ACTION	MONTH OF PHASE 2
Monitoring the AEA pilot action by AEA with the indicators: <ul style="list-style-type: none"><li>• Consumption of Kwh by vulnerable families</li><li>• Satisfaction surveys of the vulnerable families</li></ul>	August 2022 to January 2023
Elaboration of a first proposal of the roadmap to promote energy communities including vulnerable groups in the ERDF by AEA	August 2022 to January 2023
Revision of the roadmap by the Round Table for Self-consumption and inclusion of their comments	January 2023 to March 2023

ACTIVITIES OF THIS ACTION	MONTH OF PHASE 2
Revision of the roadmap by the National Working Group on energy communities and inclusion of their comments	January 2023 to March 2023
Elaboration of the final version and official presentation of the roadmap	March 2023 to June 2023
Elaboration of a proposal to include the roadmap in the OP of the ERDF 2021-2027	June 2023 to July 2023

### 3.3.5. Cost

The budget of this action is EUR 35.000 – 45.000.

### 3.3.6. Funding sources

This amount will be the one that will be reported in the Energy Strategy for Andalusia 2030. The budget for new initiatives funded by the Andalusian ERDF 2021-2027 cannot be defined yet.

### 3.3.7. Policy instrument to be improved

The policy instrument to be improved with this action is the "Energy Strategy for Andalusia 2030".

## Conclusions

This Action Plan has emerged with the need to improve the next policy instruments: the "Energy Strategy for Andalusia 2030" and the "1st Comprehensive Strategic Plan for the elderly in Andalusia 2020 – 2023". And for sure, the results will be used to define better the incentive schemes for vulnerable groups to be developed under the Operational Programme of the Andalusian ERDF 2021-2027.

We would like to highlight the innovation of influencing a political instrument such as the Comprehensive Strategic Plan for the elderly, which includes, for the first time, a program aimed at reducing energy poverty thanks to the inspiration of the POWERTY project.

This Action Plan is composed of different concrete actions that have been the results of the compilation, analysis and adaptation of the [good practices](#) identified by the different

partners of the POWERTY project, thanks to the [interregional](#) work carried out and thanks to the important role of the [stakeholders](#) of the project.

The 4 topics of the POWERTY project (Technological, Finance, Normative and Empowering) are covered with the actions described in this document.

Date: May 2022.

Signature: Francisco Javier Ramírez García

Stamp of the organization (if available): Andalusian Energy Agency