

Final Event: 14 June 2023



Introduction to POWERTY

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Organisation: Andalusian Energy Agency



**Interreg
Europe**



European Union | European Regional Development Fund

Brief history of the project



- ❖ In EU, vulnerable groups affected by energy poverty are unable to take advantage of renewable energies.
- ❖ The complete decarbonisation of the EU's economic and energy system will only be possible if these groups also integrate renewable energies.
- ❖ POWERTY emerges with the idea of improving policy instruments to make it easier for vulnerable groups to use renewable energies.
- ❖ POWERTY is aligned with the EU policy, which recognizes that the energy transition needs to be fair for those parts of society that are more vulnerable

Powerty project



How do we overcome **energy poverty**?



Traditional measures:

- Social rates
- Help energy supplies
- Energy efficiency
- Rehabilitations/ Retrofit

Innovative measure:

- **Renewable energies** → **POWERTY**

Powerty project



Facilitate that vulnerable households have a safe, clean and affordable energy supply, based on renewable energies

**RENEWABLES
TECHNOLOGIES**

**FINANCING
MECHANISMS**

**NORMATIVE &
REGULATORY**

**EMPOWERING
CITIZENS & LOCAL
AUTHORITIES**

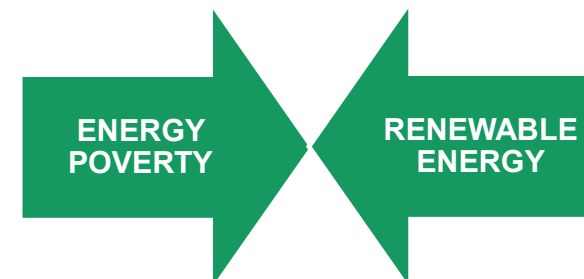
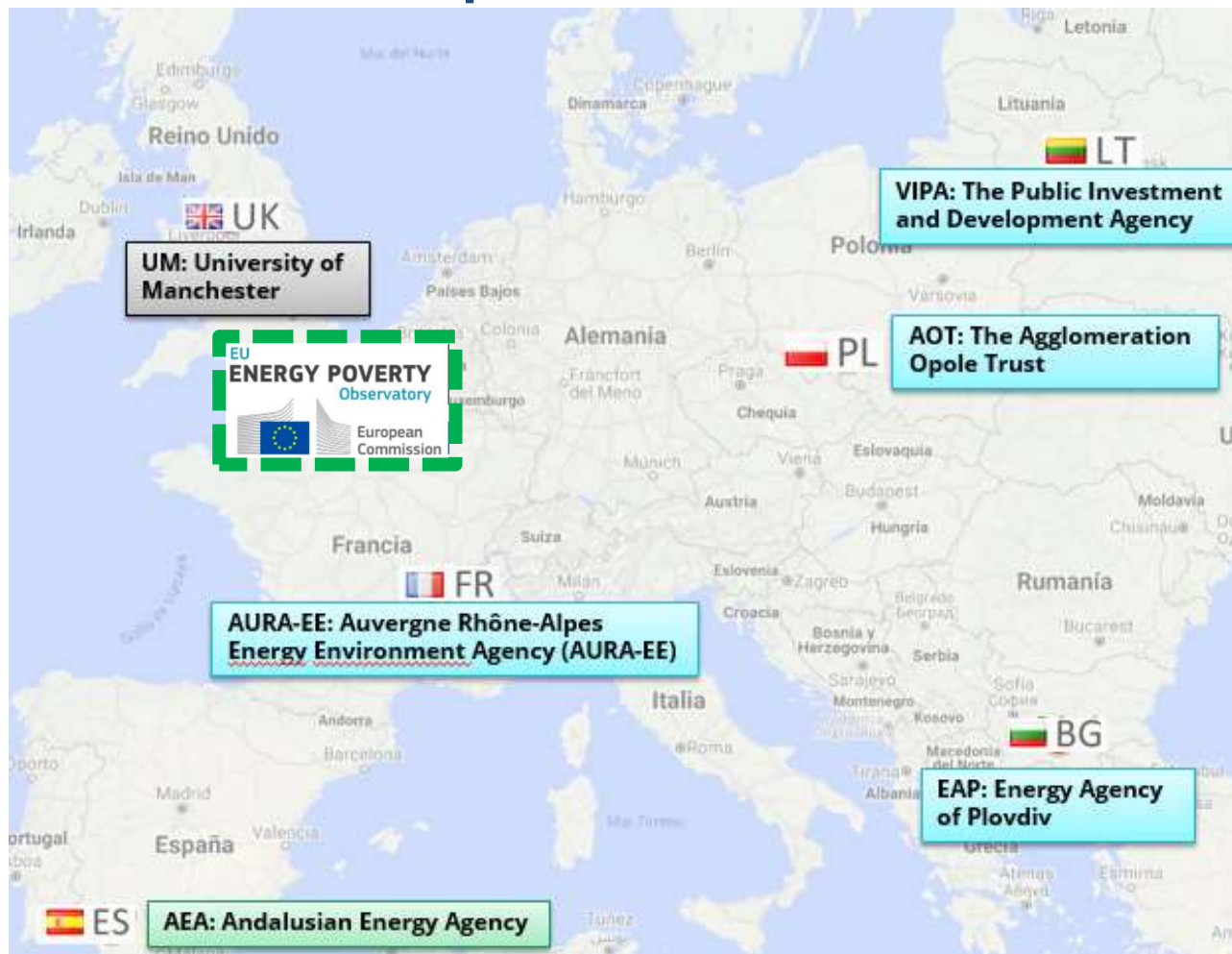
IMPROVE POLICY INSTRUMENTS

- reduction of energy poverty -

POWERTY partners

POWERTY
Interreg Europe

European Union
European Regional
Development Fund

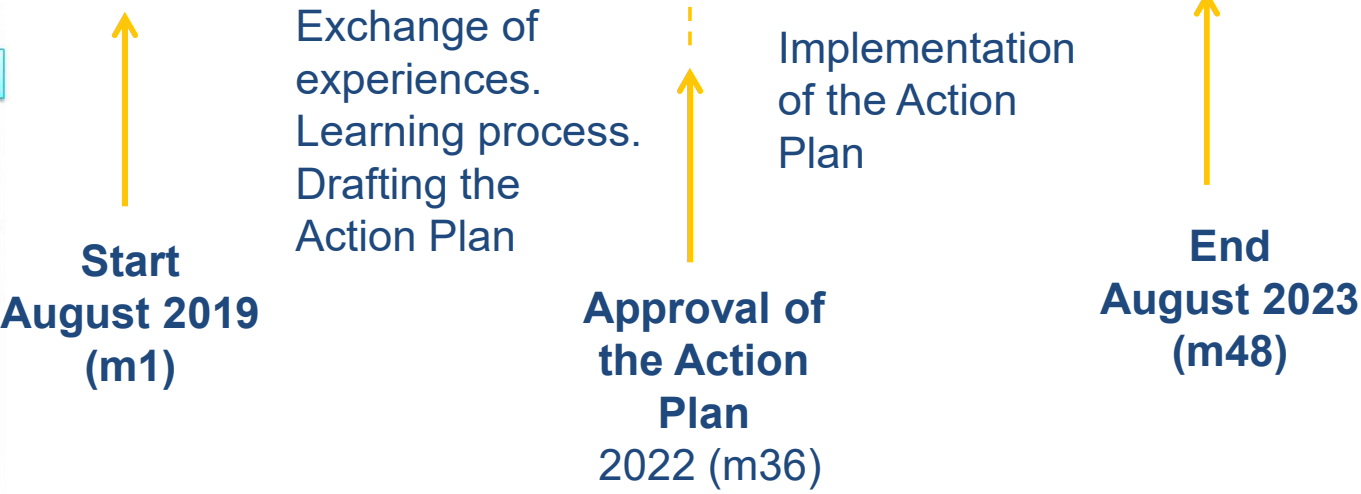
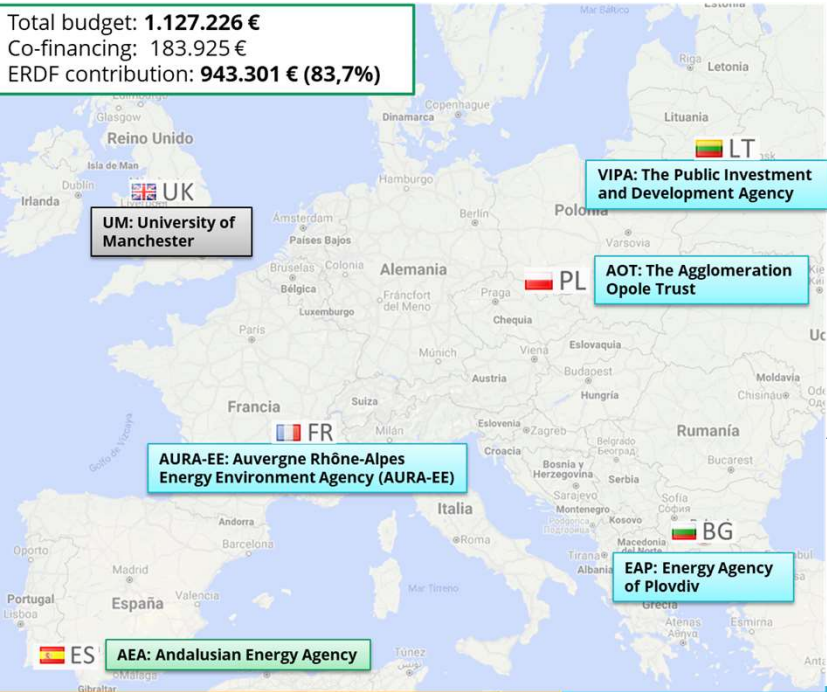


Total budget: **1.335.118 €**
Co-financing: 200.267 €
ERDF contribution: **1.112.107 € (83,0%)**

POWERTY phases



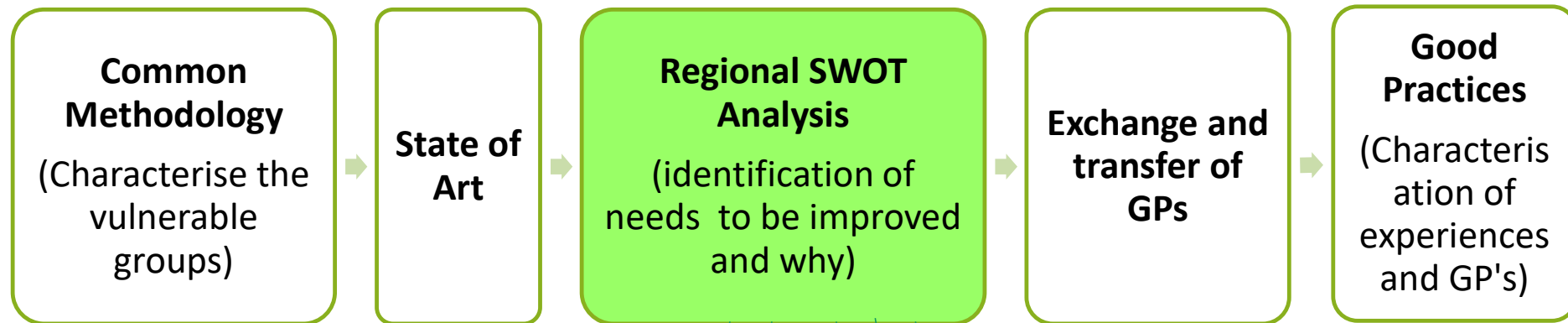
Total budget: **1.127.226 €**
 Co-financing: 183.925 €
 ERDF contribution: **943.301 € (83,7%)**



POWERTY phases



SWOT Analysis of the POWERTY project



SWOT analysis on Energy POVERTY



WEAKNESSES

- Vulnerable groups are **often unaware** of renewable energy installations and equipment.
- **The type and size of vulnerable households makes it difficult to install** certain renewable energy equipment.
- There is obvious concern about **the large number of illegal connections**, especially in highly marginalised area
- **The energy consumption of vulnerable households is low**, which decreases the economic profitability
- **Difficulties to access financing**. Even public aid has traditionally been complex to process for vulnerable groups
- Vulnerable groups are **very heterogeneous**: elderly people, unemployed people, single-parent families, immigrants, etc. This requires a different approach
- There is **lack of tools** in many countries for identifying and evaluating the energy poverty.
- Difficulties in **accessing** these groups and promoting their participation

SWOT analysis on Energy POVERTY



STRENGTHS

- The **versatility and flexibility** of renewable energies allows their adaptation to different environments
- The price of renewable installations is increasingly reduced, which favours their use.
- **European funding** for energy improvement actions (sustainable energy development).
- **Existing national strategies** for energy poverty, together with two other relevant strategies and plans (Just Transition and National Energy and Climate Plan).
- Public administrations, particularly local ones, have **extensive experience in social services**

SWOT analysis on Energy POVERTY



THREATS

- Vulnerable groups are **unattractive from the point of view of economic** profitability, which discourages innovation and the generation of a technological offer adapted to this type of group
- **Few experiences** in tackling energy poverty through renewable energies
- Public **funding is insufficient** to meet the energy needs of all vulnerable groups
- The availability of **specific funds are often directed to other basic and most urgent concepts** (food, clothing, minimum life supplies).
- Programmes to detect and reduce energy poverty are **not implemented efficiently**. The most vulnerable groups are not usually recognised as such
- **Separation between technological and social actors**, which has made it difficult to adopt an integrated approach to tackling energy poverty

SWOT analysis on Energy POVERTY



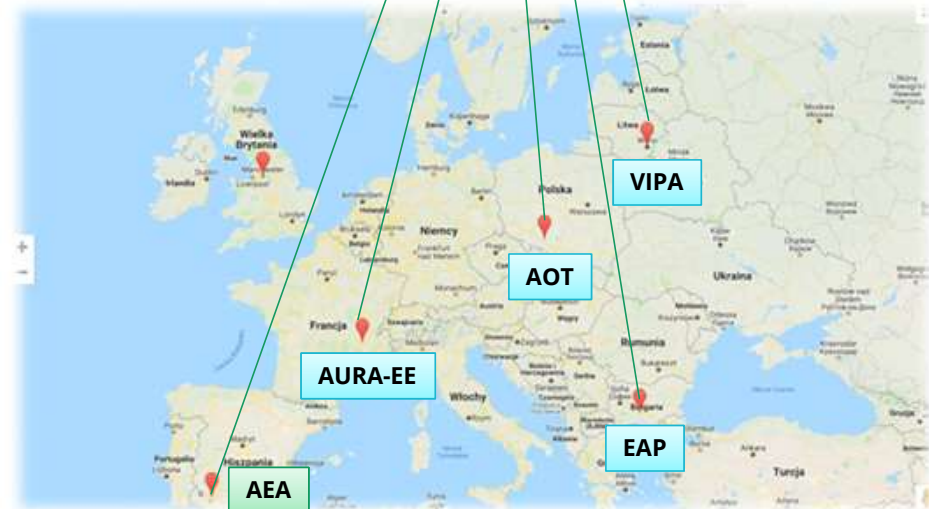
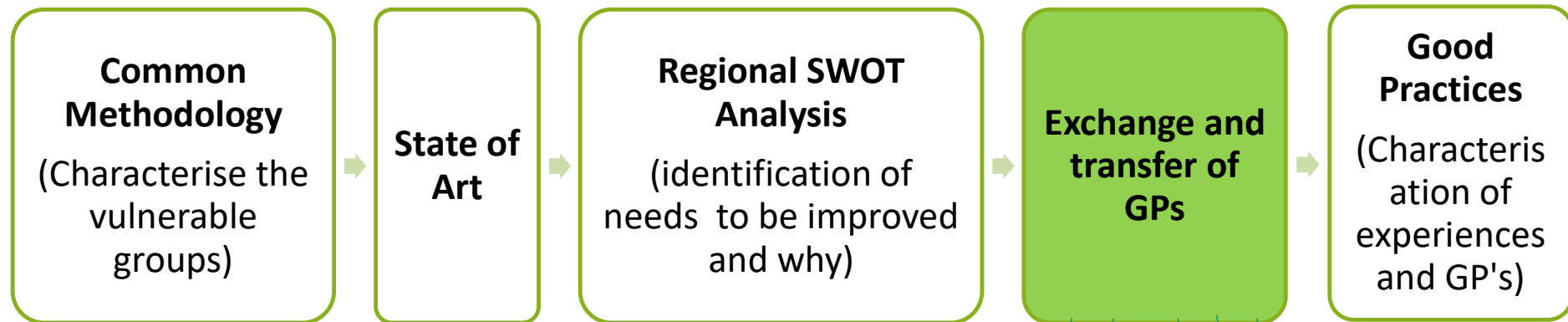
OPPORTUNITIES

- There are **companies and entities in the energy sector** that are very sensitive to the problem of energy poverty
- The **extensive stock of public buildings** could use renewable energy facilities for supplying energy, directly or virtually, to vulnerable groups
- There is a **growing trend of microfinance** platforms (crowdfunding/crowdlending)
- In the coming years, so-called "**local energy communities**" will take on a much more active role
- **European policy** establishes that the energy transition must be fair, and must also integrate all citizens, including vulnerable groups.
- Derived from the commitments of **the Covenant of Mayors**, the municipalities have to carry out measures to tackle energy poverty.
- The insertion of vulnerable groups in the renewable energy **labour market** is a great opportunity to develop
- There are already various **collaborations between different stakeholders** (FAMP, ENDESA, Naturgy, ECODES, Red Cross) which could strengthen and extend the work carried out in POWERTY

POWERTY phases



SWOT Analysis of the POWERTY project



POWERTY learning process

- 3 interregional thematic seminars
- 25 Regional workshop with stakeholders
- 6 study visits
- 1 Exchange of experience meeting to share the Action Plans
- 5 Bilateral meetings between regions
- 5 dissemination events at regional/local level
- 1 high level dissemination event.
- 44 Good Practices identified
- 71 - People with increased professional capacity

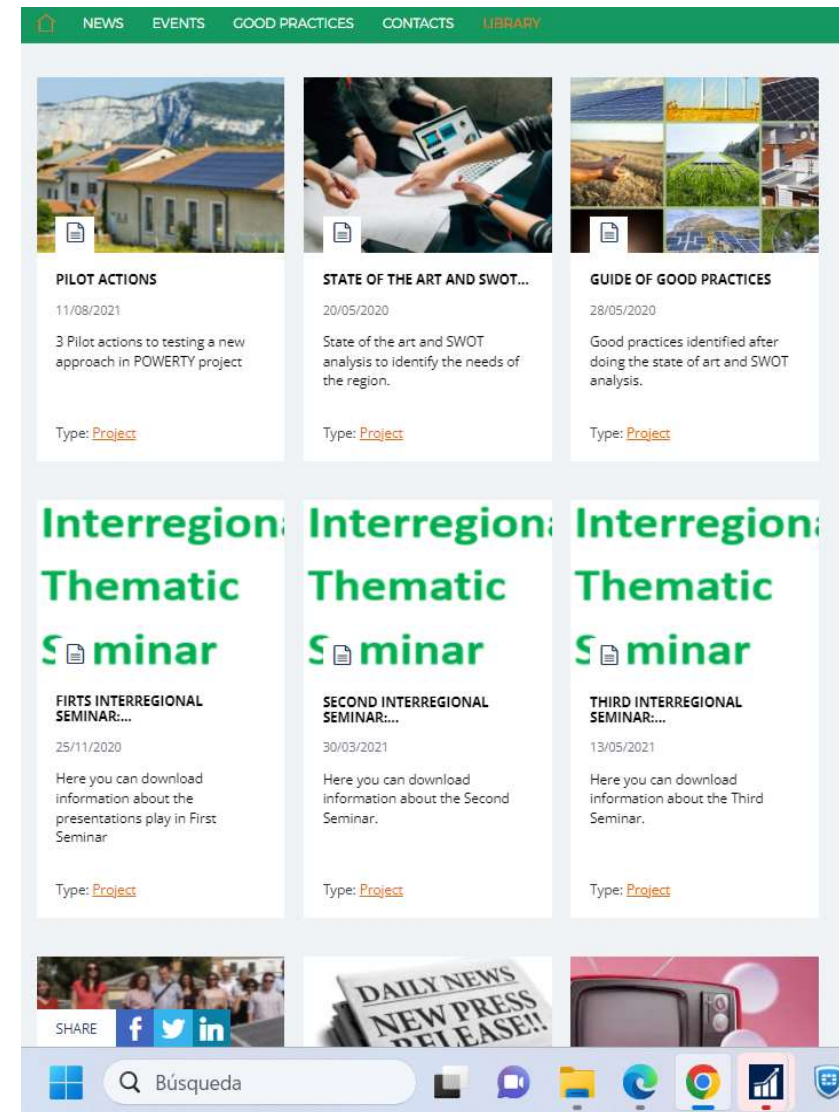


POWERTY Main Outputs

- Topics Reports
- Bilateral meetings reports
- Study visit reports
- **1 Guide of good practices**
- **5 Regional action plans**
- **3 Pilot Actions**

<https://www.interregeurope.eu/powerity/>

Integrated in Interreg Europe website



The screenshot displays the POWERTY website interface, which is integrated into the Interreg Europe website. The page features a green navigation bar with the following menu items: NEWS, EVENTS, GOOD PRACTICES, CONTACTS, and LIBRARY. The main content area is organized into a grid of project outputs, each with a representative image, a title, a date, a brief description, and a 'Type: Project' label.

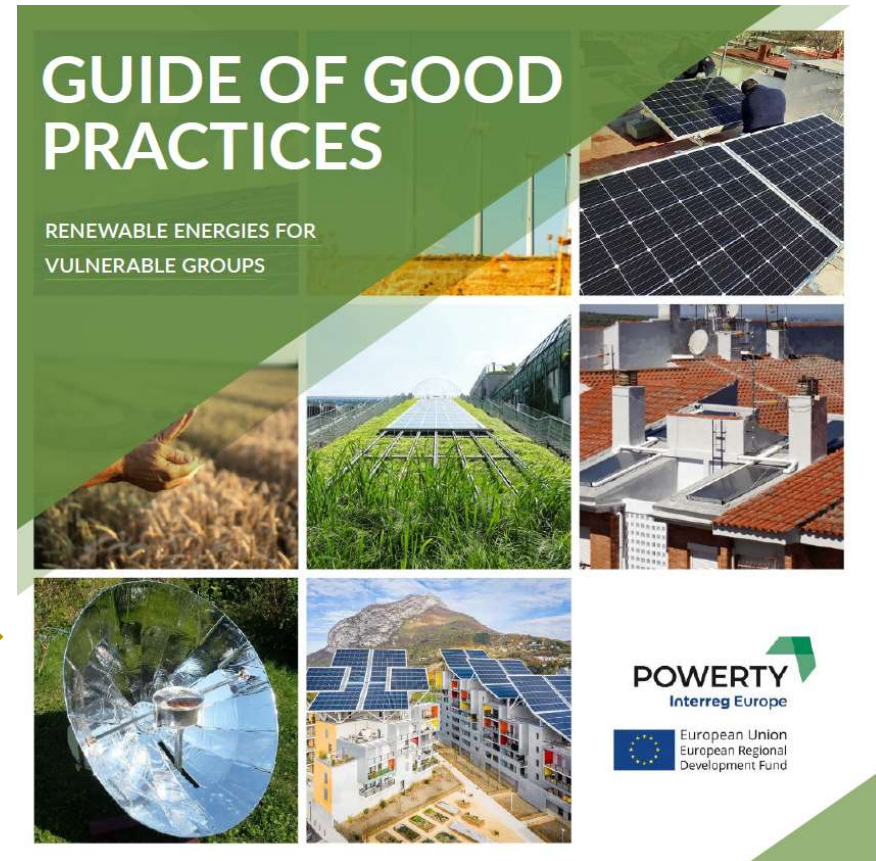
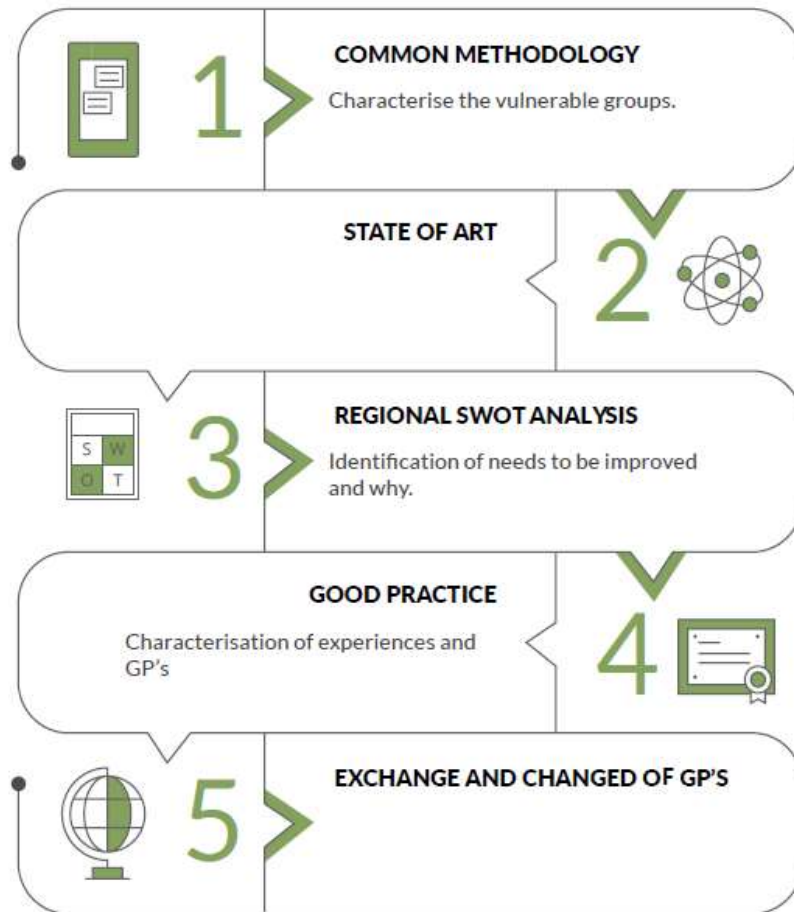
Project Title	Date	Description	Type
PILOT ACTIONS	11/08/2021	3 Pilot actions to testing a new approach in POWERTY project	Project
STATE OF THE ART AND SWOT...	20/05/2020	State of the art and SWOT analysis to identify the needs of the region.	Project
GUIDE OF GOOD PRACTICES	28/05/2020	Good practices identified after doing the state of art and SWOT analysis.	Project
Interregional Thematic Seminar	25/11/2020	Here you can download information about the presentations play in First Seminar	Project
Interregional Thematic Seminar	30/03/2021	Here you can download information about the Second Seminar.	Project
Interregional Thematic Seminar	13/05/2021	Here you can download information about the Third Seminar.	Project

At the bottom of the page, there is a social media sharing section with icons for Facebook, Twitter, and LinkedIn, and a search bar with the text 'Búsqueda'. The Windows taskbar is visible at the very bottom of the screenshot.



Energy POVERTY GPs

More than 44 GPs collected in the four areas



Topic: Financial Mechanisms



S P A I N

Inclusion of social criteria in incentive programmes for energy improvement in housing.

Self-consumption and collective renewable: Ola Solar de Lebrija (OSL).

Crowdlending financing for solar installation in local entity.

Photovoltaic installation for self-production in a building for 19 families in vulnerable situations.

QUANTICO rental. Financing model for solar self-consumption facilities.



F R A N C E

Equipping precarious households with renewable energy through citizen investment.

Production of renewable energies through collective investments of citizens in Voiron.

Air-wood fund.



P O L A N D

Municipalities against energy poverty - STOP SMOG program.

Efficient heating systems for the vulnerable groups in Sofia Municipality for improved air quality.



B U L G A R I A

Photovoltaic installations with battery storage in social buildings

Efficient heating systems for the vulnerable groups in Sofia Municipality for improved air quality.



L I T H U A N I A

Energy Efficiency and Renewable Energy Source investment platform.

Change of legislation to foster building renovation program which includes vulnerable groups.



U N I T E D K I N G D O M

Free solar installations for social housing in Manchester.

Shine Social Housing Project: Solar PV Installation in a Local Housing Association in Devon, UK.



O T H E R C O U N T R I E S

Subsidising investment for renewable energy and energy saving measures in vulnerable homes in Cyprus.

Solar Savers Adelaide: Solar PVs for Low-Income Households.

Topic: RENEWABLE ENERGY TECHNOLOGIES



S P A I N

Energy improvement of 149 social houses using renewable energy.

Solar neighbourhood.

Solar cookers and ovens as one more measure to overcome energy poverty.

Public policy of Innovative Public Procurement of the Andalusian Regional Government.

Data-driven value-added services for collective self-consumption plant that includes vulnerable groups.

Renewable Energies favour the labour insertion of vulnerable people in a farm in Seville.

#SolSurAutoproduction: Collective purchase model of 50+1 self-consumption photovoltaic installations



F R A N C E

The Grenoble area's district heating network: renewable energy, affordable for vulnerables groups.

Sponsorship to enable residents of social housing to reduce their bills thanks to solar electricity.



B U L G A R I A

Facilitation of renewable energy solution for self-consumption in residential building.



P O L A N D

Home Exchange, a program to eliminate energy poverty in the region by building microhouses.



L I T H U A N I A

Remote renewable energy power plants for prosumers.

Renewable energy platform for prosumers.

Topic: Normative



S P A I N

Decarbonising thanks to the renewable self-consumption guide for Andalusian local municipal entities.

Regulatory changes for the promotion of collective self-consumption in Spain.

National Strategy against Energy Poverty 2019-2024 in Spain (ENPE).

Strategic plan to alleviate energy poverty in the elderly in Andalusia.

CONFIA project to improve management of vulnerable citizens with blockchain.



F R A N C E

The zero-rated eco-loan scheme to encourage renewable energy (ECO-PTZ).

The energy voucher, an automatic aid for vulnerable households.

Target energy saving certificates quotas (CEEs) fees to vulnerable households.

“Habiter Mieux sérénité” to accompany households on their way out of fuel poverty.



P O L A N D

Programme LIFE.



L I T H U A N I A

Bureaucratic nightmare solution for development of renewable energies.

Topic: Empowering



S P A I N

Energy and Educational Community in a vulnerable area in Seville.

An installing solar panels insertion company whose employees are people at risk of exclusion.

No home without energy.

Citizen participation as a tool to create the Local Energy Community (LEC) "ALUMBRA" in Andalusia.



F R A N C E

AEELA Program. Energy Saving Accelerator for the Housing of the low income farmers.

Autonomous Building for Citizens (ABC) with solar self-consumption for 62 social housing.



B U L G A R I A

Sustainable reduction of energy consumption of low-income households through energy advice.

Empowering vulnerable citizens to save energy with the "Give Energy" campaign.



P O L A N D

WARM UP YOUR BUSINESS as an opportunity to find the RES technologies for vulnerable groups.



UNITED KINGDOM

Heart-smart orkney (HSO): Using wasted renewable energy to heat homes experiencing fuel poverty.

POWERTY pilot actions



1

Creation and development of an energy and educational community in a vulnerable area (Torreblanca)

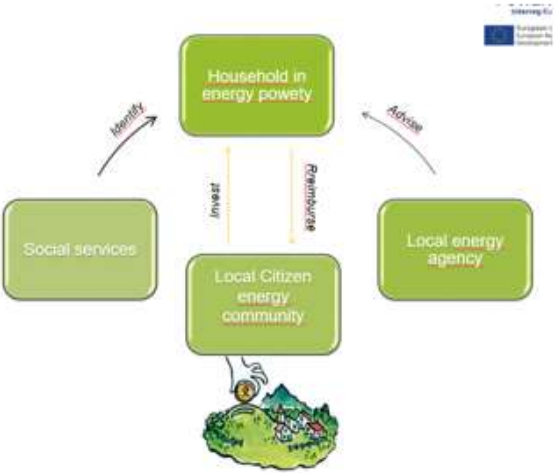
(AEA - Spain)



2

Contract model involving a citizen's investment fund to develop renewable energy for low-income households

(AURA-EE - France)



3

Hybrid of PV plus Battery Energy Storage System in social housing

(EAP - Bulgaria)



POWERTY pilot Actions

Torreblanca pilot > **WHAT**



Testing the creation and development of a pilot **energy and educational community** in a **vulnerable área**, Torreblanca, in Andalusia

*Set up 2 collective **PV installations** on the roof of 2 **public schools** to generate energy that will be shared with **10 vulnerable families** of Torreblanca accompanied by a **social integration process**.*



Energy POVERTY and Local Energy Communities in Andalusia



OTHER ACHIEVEMENTS in Andalusia



The importance of the networks at local level

52 entities in Andalusia

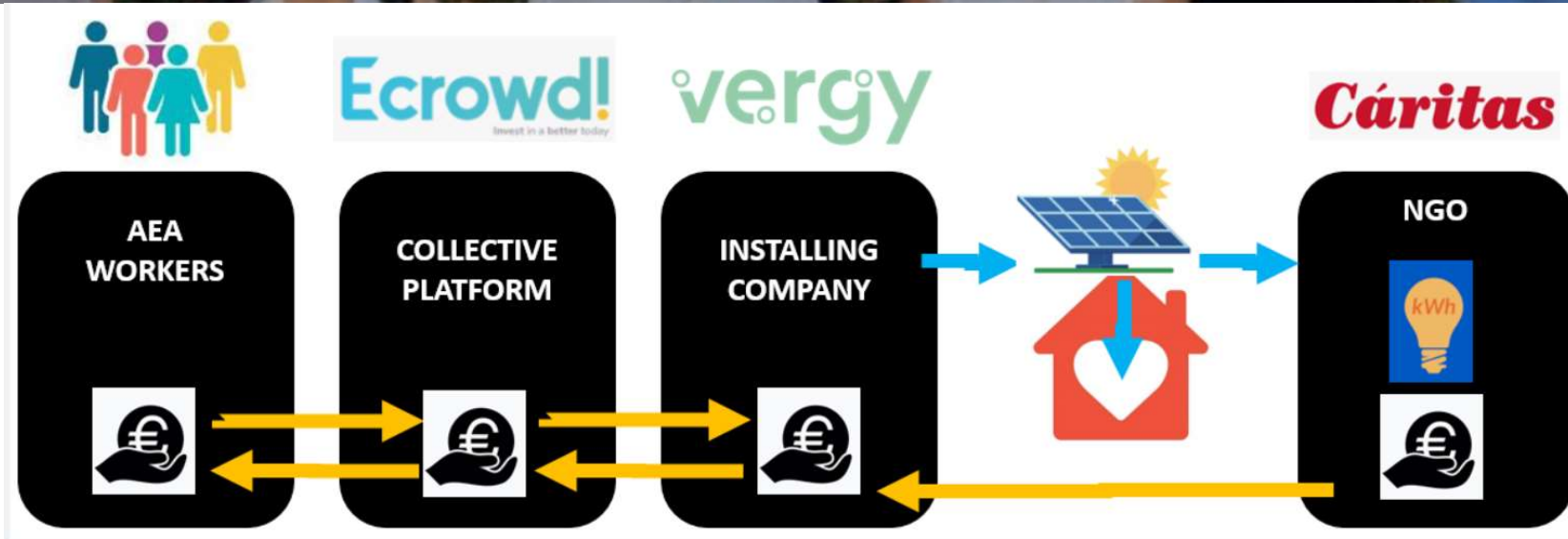


Memorandum of Agreement with Caritas



Memorandum of Agreement with University of Huelva

Energy POVERTY in the AEA



Most innovative project in Andalusia



II EDICIÓN



PREMIOS
WINNOVANDA

Candidaturas premiadas

Estas son las candidaturas seleccionadas en cada una de las categorías, cada una de ellas, pincha en el enlace que te llevará a la información:

- Premio al mejor proyecto o iniciativa innovadora
 - Andalucía Ilumina: financiación colectiva – pobreza energética
- Premio a la mejor gestión innovadora de proyectos
 - ECOGFUN-RV: Mejora del TDAH con Realidad Virtual
- Premio al liderazgo empático
 - Jesús Chaves Posadillo
- Premio al impulso innovador
 - José María López Caballero
- Premio al talento comunicador
 - Jerónimo Vivas Pérez
- Premio especial de la comunidad de InnovAnda
 - María Luisa Ulgar Gutiérrez

Other Achievements in Europe and Worldwide

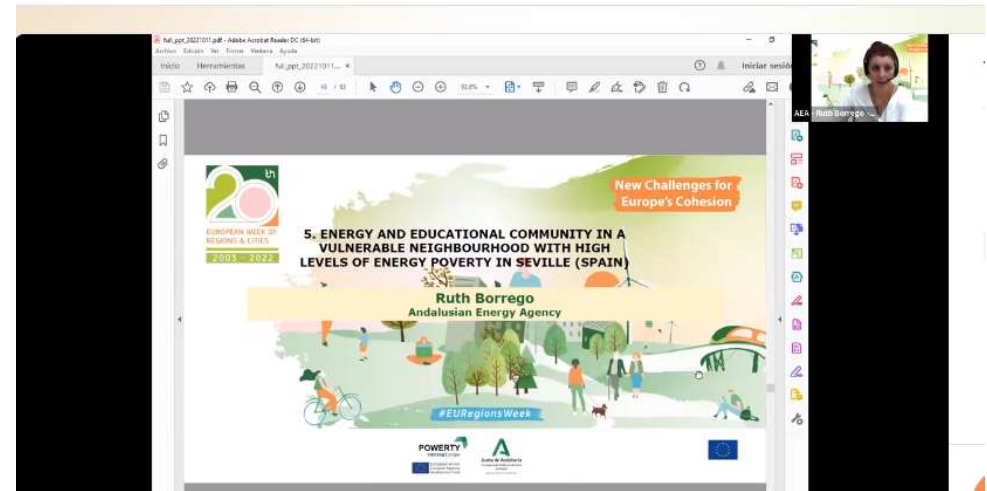


#EURegionsWeek 2022

Gala del Premio Europeo Regiostars 2022



Inicio Programme Highlights Speakers Exhibit



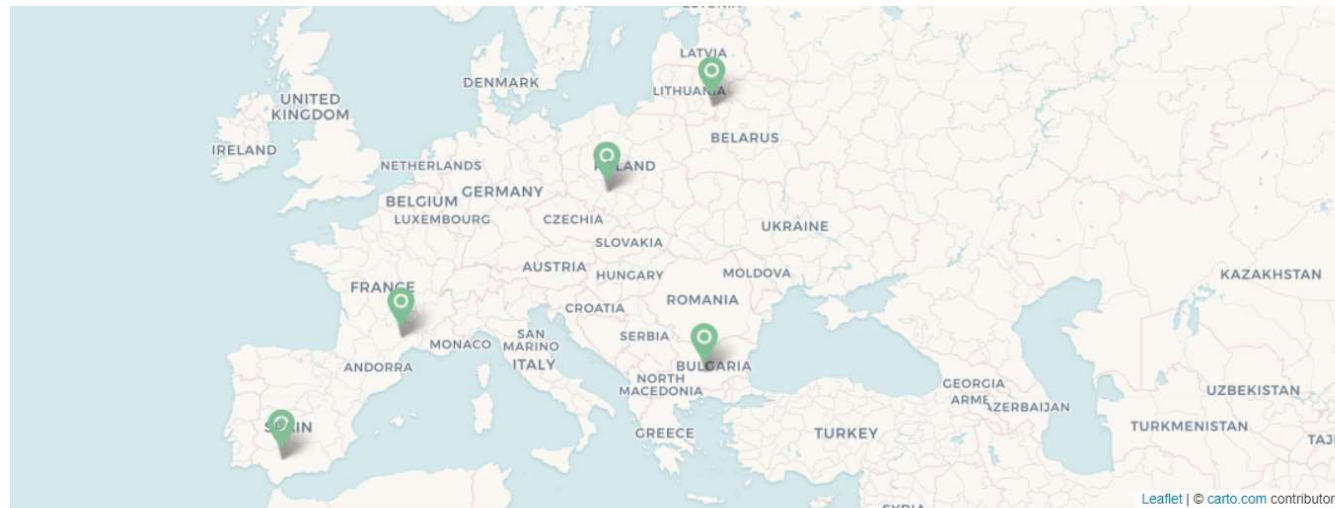
IEPAW 2022

International Energy Poverty Action Week (IEPAW)

Energy POVERTY in the AEA



ENERGY POVERTY ADVISORY HUB - ATLAS



POWERTY - Renewable energy for vulnerable groups

Spain, France, Bulgaria, Poland, Lithuania

The POWERTY project works to increase access to renewable energy for vulnerable groups to tackle energy poverty. It does this primarily by improving regional policy instruments targeting 4 topics: new innovative technologies, new formulas for financing, improving the regulatory framework and empowering vulnerable groups. Over the project's 4 year duration, the partners will develop a complete learning process to facilitate an effective knowledge flow between these regions.

<https://atlas.energypoverty.eu/node/857>



Thank you!



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