POWERTY
Interreg Europe

European Union
European Regional
Development Fund

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Andalusia Region

EUROPEAN
URBAN
INITIATIVE

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Brief history of POWERTY

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+ 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

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Powerty project

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How do we overcome energy poverty?

Traditional measures:

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

Innovative measure:

- **Renewable energies → POWERTY**

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Powerty project

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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 -

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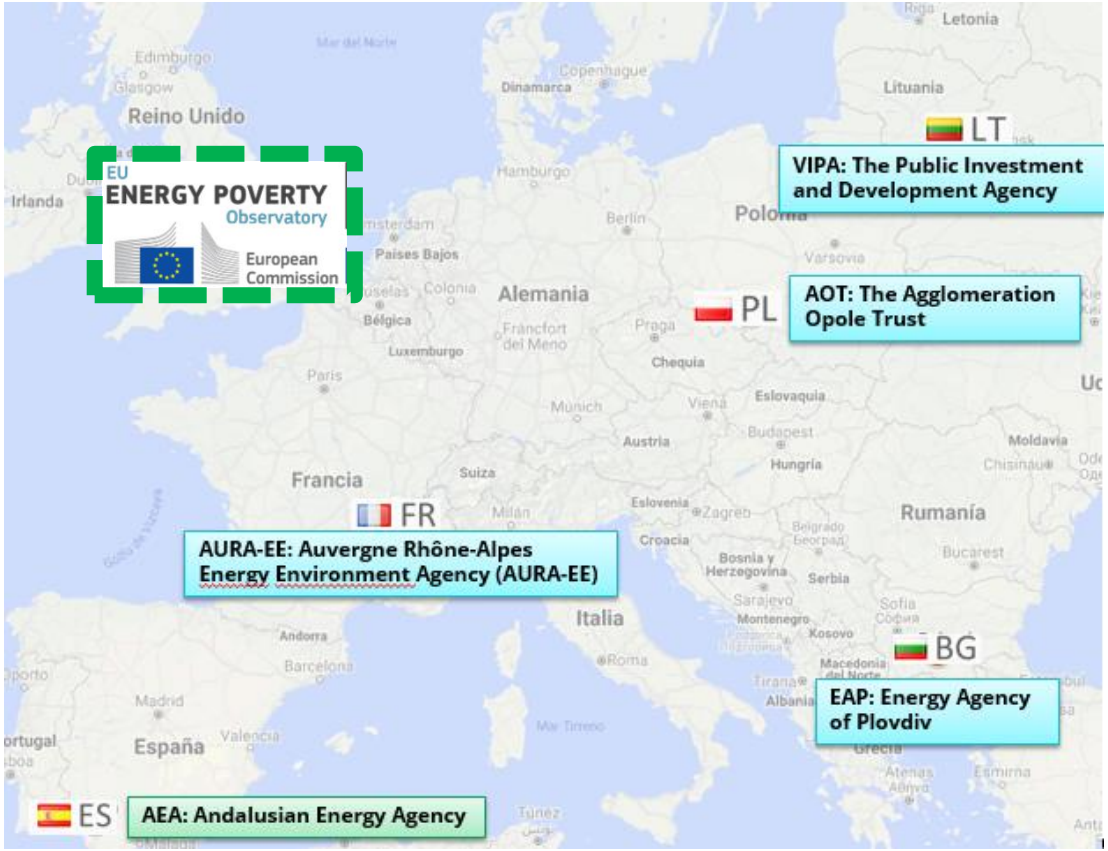
POWERTY partners



ENERGY POVERTY

RENEWABLE ENERGY

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

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Powerty project

More than 44 GPs collected in the four topics and 5 APs

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

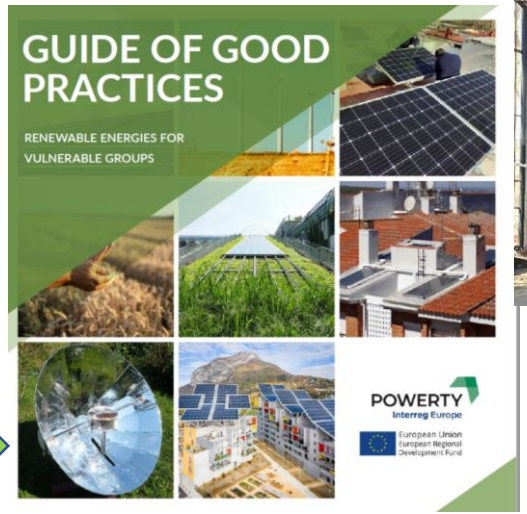
1 **COMMON METHODOLOGY**
Characterise the vulnerable groups.

2 **STATE OF ART**

3 **REGIONAL SWOT ANALYSIS**
Identification of needs to be improved and why.

4 **GOOD PRACTICE**
Characterisation of experiences and GP's

5 **EXCHANGE AND CHANGED OF GP'S**



5 Regional action plans

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POWERTY pilot actions

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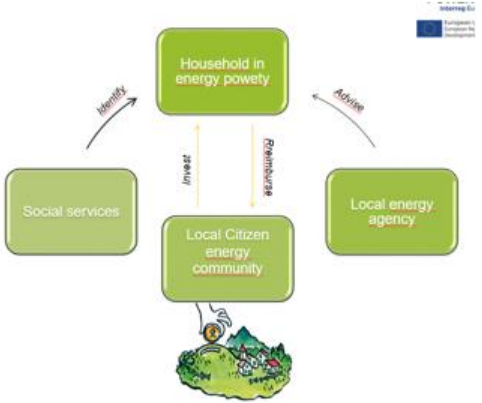
Creation and development of an energy and educational community in a vulnerable area (Torreblanca)

(AEA - Spain)

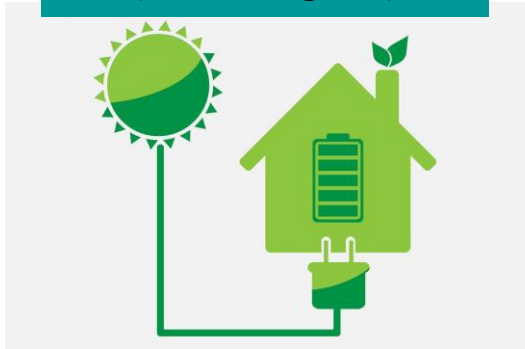
Contract model involving a citizen's investment fund to develop renewable energy for low-income households

(AURA-EE - France)



Hybrid of PV plus Battery Energy Storage System in social housing

(EAP - Bulgaria)



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Energy POVERTY and Local Energy Communities

→ **The Renewable Energy Directive:**

→Recognises **the opportunity of energy communities to combat energy poverty** and urges Member States to take appropriate advantage of this opportunity (recital 67).

→It should be **ensured that participation in renewable energy communities** is accessible to all consumers, including low-income or vulnerable households (Article 22(4)f).

→ **Internal Energy Market Directive:**

→Recognises that **Community energy can combat energy poverty by reducing consumption and lower supply tariffs, and allows certain groups of household customers to participate in electricity markets that would otherwise not have been able to do so** (recital 43).

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POWERTY pilot Actions- Torreblanca

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

*Set up 2 collective **PV installations** on the roof of 2 **public schools** to generate energy that will be shared with **15 vulnerable families** of Torreblanca accompanied by a **social integration process**.*

Torreblanca pilot > WHAT

POWERTY pilot Actions - Torreblanca

+20.000 inhabitants

WHERE – Vulnerable groups

Torreblanca neighbourhood, located in Andalusia (Seville), has been classified by the Andalusian Regional Strategy of Cohesion and Social Inclusion as a **Disadvantaged Zone**

Diario de Sevilla — SEVILLA

SEVILLA PROVINCIA ANDALUCÍA ESPAÑA ECONOMÍA SOCIEDAD DEPORTES CULTURA COFRADÍAS OPINIÓN ≡ TODAS LAS SECCIONES

SEVILLA VIVIR RUTAS DE SENDERISMO

SEVILLA

Tres barrios de Sevilla encabezan la lista de los más pobres de España

- El Polígono Sur repite por tercer año consecutivo como la zona más deprimida del país, donde sus habitantes viven con unos ingresos de 14 euros al día
- Los Pajaritos ocupa el segundo lugar de la lista y Torreblanca el cuarto

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POWERTY pilot Actions - Torreblanca

WHO – Key agents

Holistic assistance
&
Equipment

Equipment
(PV panels)
&
Workforce

Cession
public roofs
&
selection houses

Educational
activities

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POWERTY pilot Actions

HOW – Energy Community

2019

2020 & 2021

2022

IDEA & FINANCIAL

- Drive group: Local Group of Som Energia -POWERTY stakeholder
- National Prize Germinador Social + **Equipment** (PV panels donation)

LEGAL & EDUCATIONAL

- Creation of Association "Torreblanca Ilumina"
- School roads, 50/50 methodology, energy saving, energy communities

POWERTY PILOT ACTION

- Holistic assistance:
- **Equipment**
- Dissemination (video)
- Methodology to replicate

LEGAL
SOCIAL
TECHNICAL

POWERTY pilot Actions

HOW – Holistic assistance

LEGAL

SOCIAL

TECHNICAL

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POWERTY pilot Actions - Torreblanca

CHALLENGES

- ❑ There is **no other experience** in Spain
- ❑ EC in a **very vulnerable** context (no references)
- ❑ Make the vulnerable the **protagonist** of the energy system
- ❑ **Public-private collaboration**: 2 Public Administrations and 1 Association
- ❑ Administrative **process of legalization** of collective self-consumption (new)
- ❑ **Deadline** for the pilot reduced
- ❑ Area with **great concerns**: eating, dressing... (**priorities**)
- ❑ Bring energy to **low educational levels**
- ❑ **Labor insertion**

LESSONS

- ✓ Exchange of **GPs** for the **cession of roofs**
- ✓ **Synergies** with other movements
- ✓ "**Ambassadors**" to explain EC
- ✓ **Agreement** between AEA & Torreblanca Ilumina
- ✓ Social processes take a lot of **time**
- ✓ **Social Servicies** make the contact easy
- ✓ **Funding** is a barrier to continue EC
- ✓ Old **electrical system**, additional **investment** not foreseen
- ✓ **Educational** complement make easy the accept of the pilot
- ✓ **Complex coordination** of the number of agents involved

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Energy POVERTY and Local Energy Communities in Andalusia

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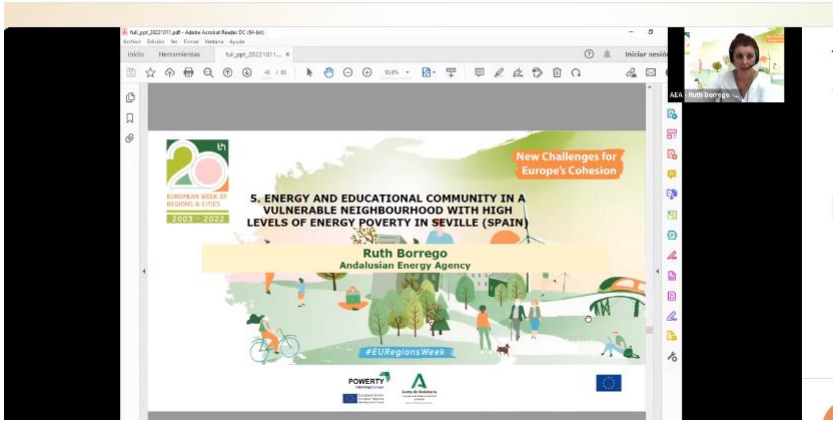
Other Achievements in Europe and Worldwide

Gala del Premio Europeo Regiostars 2022

#EURegionsWeek 2022

Inicio Programme Highlights Speakers Exhibit



IEPAW
INTERNATIONAL ENERGY POVERTY ACTION WEEK

IEPAW 2022

International Energy Poverty Action Week (IEPAW)

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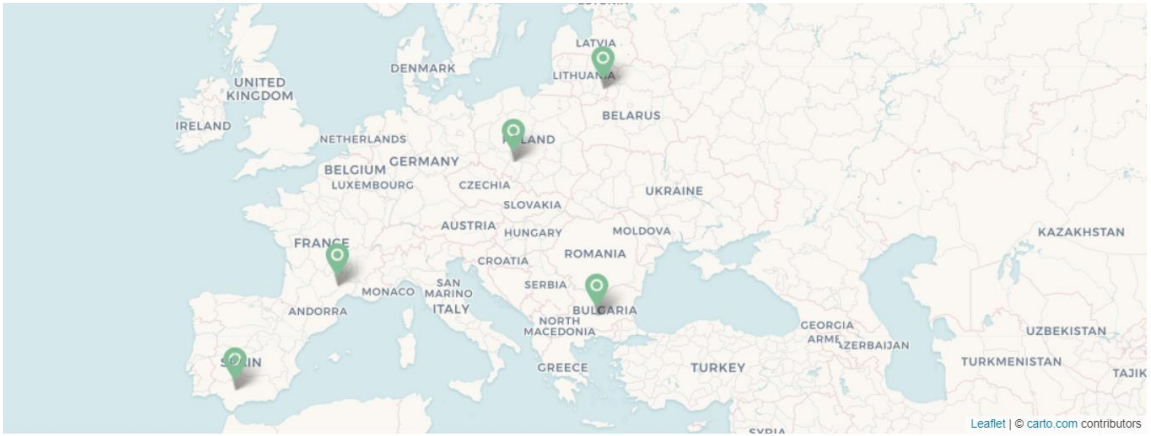
POWERTY in EPAH

ENERGY POVERTY ADVISORY HUB - ATLAS



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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

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