



POWERPOOR

Empowering Energy Poor Citizens through Energy Cooperative Initiatives

Write your title here - Date

Working on the field with energy poor citizens and policy makers to lower energy poverty levels across Europe



This project has received funding from the European Union's HORIZON 2020 research and innovation programme under grant agreement No 890437

The Project at a glance

Started: 01/09/2020

Duration:
36 Months

Empowering Energy
Poor Citizens
through Joint Energy
Initiatives

Coordinator:
National Technical
University of Athens
(NTUA)
Participants: 14

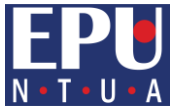
European Union's **Horizon 2020** Research and
Innovation Programme

Budget:
1,999,812.50 €

Grant Agreement number:
890437 — POWERPOOR —
H2020-LC-SC3-2018-2019-2020/
H2020-LC-SC3-EE-2019

Consortium - 14 participant countries – 8 pilot countries

Who we are



ENERGIACLUI
CLIMATE POLICY INSTITUTE
APPLIED COMMUNICATION



ZREA
ZEMBALES REĢIONĀLA
ENERĢETIKAS AĢENTŪRA



Coopénico
Energija, atnaujinamieji ištekliai ir inovacijos



POWERPOOR leads the way in

Supporting - energy poor citizens to implement energy efficiency interventions and participate in joint energy initiatives, through the development of POWERPOOR support programmes and tools, to alleviate energy poverty.

Facilitating - citizens' behaviour change towards energy use and uptake of energy efficiency measures through experience and knowledge sharing, as well as through joint energy initiatives and citizen engagement campaigns targeting groups of consumers in energy poor communities.

Promoting - energy community projects / alternative financing schemes and assisting citizens to pursue funding opportunities (e.g., energy communities, energy cooperatives & crowdfunding).

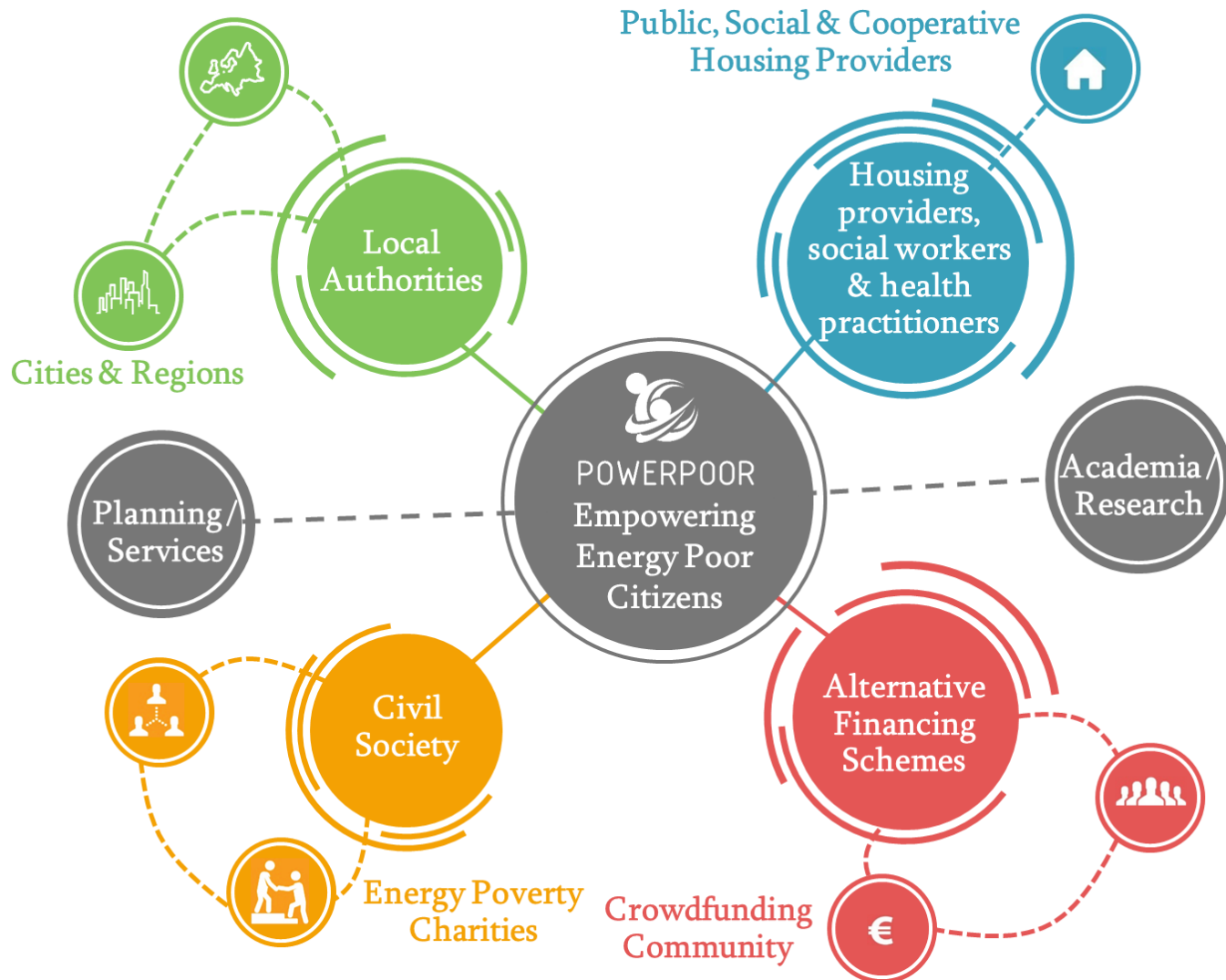
Energy poor support programmes
will be designed, developed and
implemented in 8 pilot countries across
Europe, led by a network of certified Energy
Supporters and Energy Communities
Mentors.

Through energy poor support programmes
citizens are positioned at the heart of the
solution through a gradual transition from
an energy poor citizen towards an informed
consumer and later an active prosumer.

Objectives

- Engage with **energy poor citizens** and groups.
- Design and implement **energy poor support programmes** to alleviate energy poverty.
- Build **a network of Energy Supporters and Energy Communities Mentors** that will provide technical support to energy poor citizens.
- Increase the overall uptake of **energy efficiency measures and joint energy initiatives** to reduce energy poverty, through the use of ICT and other tools.
- Develop **policy recommendations** for mitigating energy poverty.
- **Replicate** the energy poor support programmes.

Target Groups



Engagement with energy poor citizens

Energy poor citizens will be informed and actively engaged through:

- Numerous planned activities (e.g., selected **home visits** by Energy Supporters / Mentors, exchanging information with the **Stakeholders Liaison Groups, Info Days** in selected cities / regions, etc.).
- Focal points that will be created in selected public authorities, social services and other organisations (e.g., **Local Energy Poverty Offices** will be established for providing and disseminating information, leaflets, brochures, etc.).
- ICT-driven tools (i.e., the **Energy Poverty Mitigation Toolkit**, which includes an on-line help desk).

The benefits arising from behaviour changes and energy efficiency interventions will be communicated, along with the benefits of participating in joint energy initiatives (energy communities / cooperatives, etc.).

***Energy poor citizens** are considered to be people who cannot keep their homes adequately warm during winter and/or comfortable enough during summer, may live in poor quality dwellings (e.g. rotten window frames, damp walls/foundations, leaking roofs) and may delay paying their energy bills.*

Energy Poverty Mitigation Toolkit

An Energy Poverty Mitigation Toolkit will be developed for energy poor citizens, public authorities, energy communities / cooperatives and other stakeholders, consisting of the following online tools:



POWER TARGET

Identify and target energy poor citizens using a data-driven approach that facilitates the identification of energy poor citizens, communities, neighborhoods or districts

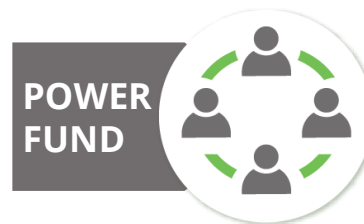
The quantitative and qualitative analysis undertaken will facilitate the creation of the POWER-TARGET tool



POWER ACT

Empower energy poor citizens to understand their energy use, the benefits associated from implementing energy efficiency interventions and from installing renewable energy

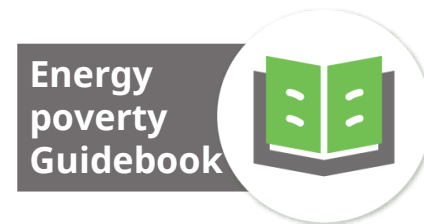
- Evaluate user's thermal comfort
- Build energy poverty profiles
- Evaluate costs and benefits of energy efficiency actions (e.g., payback period)
- Facilitate behavior change (e.g., smart tips)



POWER FUND

Communicate innovative financing opportunities to address energy poverty and engage citizens

- Collate information on innovative financing opportunities and guide users on how to pursue these
- Provide an online marketplace for energy cooperatives in energy poor communities
- Engage users and citizens through the launch of crowdfunding campaigns



Energy poverty Guidebook

An Energy Poverty Guidebook for Energy Planning for incorporating energy poverty mitigation actions in Sustainable Energy and Climate Action Plans (SECAPS)

Emphasis will be given in identifying measures to alleviate energy poverty, tailoring these to specific needs and local circumstances and ensuring synergies with other actions defined in SECAPS



Energy poor support programmes

Each local project partner from the 8 pilot countries is expected to implement at least **one pilot energy poor support programme** (8 in total) during the project's pilot implementation phase (M9-M32), in close collaboration with Energy Supporters and Mentors.

Based on the **POWER-TARGET** results and local partners' know-how, a set of actions (pilot projects) will be designed and will be tailored for energy poor households. The pilots will focus on providing:

- (a) Information and advice for facilitating behaviour change and the implementation of low-cost energy efficiency measures by using **POWER-ACT**, and,
- (b) Information on innovative financial schemes that can finance renewable energy and energy efficiency investments to effectively tackle energy poverty, for example joint energy initiatives, including energy communities / cooperatives and crowdfunding campaigns by using **POWER-FUND**.

The pilot programmes will be implemented in three engagement cycles ('Testing', 'Scale up' and 'Replication' cycles), aiming in supporting energy poor citizens (at least 22,000 energy poor households) to implement energy efficiency interventions and participate in joint energy initiatives.

Engagement framework

- **Group training seminars** and **a series of webinars** will be organised in the 8 pilot countries (Bulgaria, Croatia, Estonia, Greece, Hungary, Latvia, Portugal and Spain) so that interested individuals can become **Energy Supporters and/or Energy Communities Mentors**.
- Interested individuals may include public authorities (employees of local and regional authorities), members of existing communities / cooperatives, social workers, local consultants, professionals and entrepreneurs in the field of sustainable energy, health practitioners, university graduates and young scientists.
- Through **face-to-face (F2F) tailor-made training seminars**, the local project partners will also train representatives from cities and regions, members of energy communities/cooperatives and other organisations of social services, facilitating them to establish Local Energy Poverty Offices that can operate as focal points on energy poverty.

Energy Supporters according to GA, will engage energy poor citizens and advise them on behaviour changes and will also assist them to plan, secure funding and implement energy efficiency interventions.

Energy Communities Mentors according to GA, will provide support and expertise in all the key areas associated to the operation and/or creation of an energy community / cooperative, comprised of energy poor citizens.



Engagement Framework



Stakeholders Liaison Groups will be established in each pilot country, with at least 10 members from different organisations, so as to facilitate the engagement and support of the energy poor households, promote the concept of Energy Supporters/Mentors and energy poor support programmes and pursue the sustainability of the **Energy Poverty Mitigation toolkit**.



Local Energy Poverty Offices will provide information to citizens and will support them to actively participate in planned activities or joint initiatives.

A total of **1,100 Supporters/Mentors** will be trained and **15 Local Energy Poverty Offices** will be established during the project implementation phase.

Furthermore, an online registry of certified Energy Supporters and Energy Communities Mentors will be created in each country that will support energy poor citizens.



Engagement Activities in 3 engagement cycles

| | | |
|--|---|--|
| Internal Workshops | 3 internal capacity building workshops for 40 project partners | March 2021 , November 2021, June 2022 |
| F2F tailor-made training seminars | 1-3 F2F tailor-made training seminars between local partners and interested organisations in each pilot country, will be trained and become Energy Supporters/Mentors | A' Engagement Cycle (Testing): May 2021 - December 2021 B' Cycle (Scale-up): January 2022 - August 2022 |
| Training seminars | 1-5 training seminars will be organized in each of the 8 pilot countries, with 30-40 individuals being trained each time to become Energy Supporters/Mentors | A' Cycle (Testing): May 2021 - December 2021 B' Cycle (Scale-up): January 2022 - August 2022 |
| National webinars | 1-3 virtual workshops (webinars) in each of the eight pilot countries will be organised, with approximately 20 individuals being trained each time to become Energy Supporters/Mentors | A' Cycle (Testing): May 2021 - December 2021 B' Cycle (Scale-up): January 2022 - August 2022 |

Engagement Activities in 3 engagement cycles

| | | |
|--------------------|--|---|
| EU Webinars | 5 EU virtual workshops will be organized during the third engagement campaign, with approximately 20 individuals across Europe being trained each time to become Energy Supporters/Mentors | C' Engagement Cycle (Scale up / Replication): Sep. 2022 - April 2023 |
|--------------------|--|---|

| | | |
|----------------------------|---|--|
| EU inspiring events | 3 Inspiring EU events will be organised by ICLEI EURO, HOUSING EUROPE and ECN, with at least 100 participants in each event | C' Cycle (Scale up / Replication): Sep. 2022 - April 2023 |
|----------------------------|---|--|

| | | |
|-------------------------------------|--|---------------|
| Stakeholders' Liaison Groups | At least 10 individuals from different organisations established in each pilot country | February 2021 |
|-------------------------------------|--|---------------|

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| Local Energy Poverty Offices | At least 2 Info Days will be organized in each of the 8 pilot countries, with 50-100 individuals attending each event. Interested participants will have the opportunity to participate in the energy poor citizens' support programmes | A' Cycle (Testing): May 2021 - December 2021 B' Cycle (Scale-up): January 2022 - August 2022 |
|-------------------------------------|---|---|

The POWERPOOR Vision



EU Policy Recommendations



8 National Roadmaps



Synergies with global and EU initiatives

Energy Supporters & Energy Communities Mentors



Public authorities
(Employees of
local & regional
authorities)



Members of
existing
communities /
cooperatives



Social workers
& health
practitioners



Local consultants,
professionals &
entrepreneurs in the field of
sustainable energy



University
graduates &
young scientists

Energy Poverty Mitigation Toolkit

Energy Poverty in SECAPs

Energy Poverty Guidebook for
Energy Planning & Urban
Development Planning processes



1,100 Energy
Supporters /
Mentors

60 municipalities using
the Energy Poverty
Guidebook

24 Training
Seminars & a series
of F2F Meetings and
Webinars

POWER-ACT

Help citizens change their
behaviour in terms of energy use
and implement energy efficiency
measures



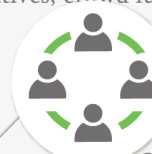
8 Pilot
Countries
3 European
Networks

8 Energy Poor Support
Programmes/Schemes on
Alternative Financing
towards Energy Poverty
Alleviation

22,000
energy poverty
households

POWER-FUND

Help citizens pursue funding
opportunities, including innovative
financing (e.g. energy communities /
cooperatives, crowd funding, etc.)



16 Info
Days

3 Inspiring
EU Events

16 signed
Memorandum
of Cooperation

3 Engagement Cycles
'Testing'; 'Scale up' & 'Replication'

'POWER-TARGET': Data-driven analysis to identify energy poor target areas / groups

People who cannot keep their homes adequately warm during winter and/or comfortable enough during summer, live in poor quality dwellings and face delays paying their energy bills



Expected Impact

**8 pilot
countries**

Bulgaria,
Croatia, Estonia,
Greece,
Hungary, Latvia,
Portugal, Spain

**8 energy poor
support
programmes**

under
3 engagement
cycles

**60 cities
5 regions
2 energy
cooperatives**

support pilot
projects

**7M Citizens
2.9M
households**

30% under
energy poverty

Up to 22.000

energy poverty
households
involved

**Network of
up to 1.100**

Energy Poverty
Supporters &
Energy
Communities
Mentors

**8 National
Roadmaps**

to alleviate
energy poverty

**1 EU Policy
Recommend
ation**

for multi-level
governance
cooperation

**Triggering
226M €**

cumulative
investments in
sustainable
energy

**188 kt CO₂
eq/year**

reduction of
emissions

**172
GWh/year
energy savings
244**

GWh/YEAR
renewable
energy
production

**3 EU
Networks**

will support
replicability



Let's stay connected!

 @POWERPOOR_EU

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 Powerpoor

 www.powerpoor.eu

Thank you!



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