



POWERPOOR

Empowering Energy Poor Citizens through Joint Energy Initiatives

Online trainer library

Working on the ground with energy-poor households and policymakers to mitigate energy poverty levels.

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Work Package 3: Capacity building and multilevel knowledge creation

Deliverable 3.1: Online Trainer Library

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Table of abbreviations

Abbreviation	Explanation
EU	European Union
WPx	Work Package number x
Dx.y	Deliverable number y belonging to WPx
ESs	Energy Supporters
EMs	Energy Mentors
ICT	Information and Communication Technology
SECAPs	Sustainable Energy and Climate Action Plans
OTL	Online Trainer Library
EPOV	EU Energy Poverty Observatory
RES	Renewable Energy Sources

1. Introduction

The main aim of POWERPOOR is to develop support programmes/schemes for energy poor citizens and encourage the use of alternative financing schemes (e.g., establishing energy communities/cooperatives, setting crowdfunding campaigns). POWERPOOR will facilitate experience and knowledge sharing, as well as the implementation of small-scale energy efficiency interventions and the utilisation of renewable energy sources, increasing the active participation of citizens. Pilot support projects will be planned and developed in 8 EU countries (Bulgaria, Croatia, Estonia, Greece, Hungary, Latvia, Portugal, and Spain) under the direction of certified Energy Supporters (ESs) and Energy Mentors (EMs) who will support over 22.000 energy-poor households and encourage citizen engagement in joint energy initiatives and innovative financing schemes.

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

- ▶ The **POWER-TARGET** data-driven tool that will enable public authorities, energy communities/cooperatives and other associations to identify groups/communities of energy poor citizens.
- ▶ The **POWER-ACT** tool aiming to motivate energy poor citizens in changing their behaviour in terms of energy use and inspire them to implement energy efficiency measures.
- ▶ The **POWER-FUND** tool which will provide citizens with information on funding opportunities for a variety of projects that can help alleviate energy poverty, including: (a) an on-line marketplace for becoming member of an energy community/cooperative, creating an energy community/ cooperative, as well as for the daily operation of an energy community/cooperative; (b) preparation and implementation of crowdfunding campaigns.
- ▶ The **Energy Poverty Guidebook for Energy Planning** to be developed for public authorities that are interested in integrating actions for mitigating energy poverty into Sustainable Energy and Climate Action Plans (SECAPs) and Urban Development Planning processes.

In addition, 8 National Roadmaps to alleviate energy poverty in the pilot countries will be developed along with EU Policy recommendations summarising key-findings and lessons learnt. Overall, the results of the project will improve policymakers' knowledge and be used for global and EU initiatives.

The primary goal of the POWERPOOR Online Trainer Library (OTL) is to serve as a pool of resources that can be used to build the capacity of the ESs and EMs in supporting energy poor citizens and local actors on the field. Secondly, the OTL aspires to address knowledge gaps with regard to energy poverty policies, alleviation practices and innovative financing at local, national, and European levels. Especially, the role of innovative financing schemes as a means to mitigate energy poverty will be highlighted.

1.1 Purpose & Scope

The purpose of this document is to present the key elements of the POWERPOOR Online Trainer Library. Firstly, the library's goal and contribution to the POWERPOOR goals, the methodology employed for its creation and its target audiences are described. Secondly, an overview of the material of the library is presented in relation to its overall contribution. Lastly, details about accessing and navigating the library on the POWERPOOR website as well as the necessary steps an individual needs to follow to contribute with new resources, during and beyond the end of the project's life, are provided.

1.2 Structure of the document

The document is structured as follows.

Chapter 2 includes an introduction to the OTL and also presents the goals for the OTL development, the methodology employed and the audiences that are targeted.

Chapter 3 focuses on the content of the OTL with a special focus on the training resources that are included in the OTL and provides an overview and analysis that point to the OTL's added value.

Chapter 4 elaborates on the integration of the OTL into the POWERPOOR website and its interface (access points, filters, procedure for the submission of new material).

Chapter 5 concludes the document at hand.

2. POWERPOOR Online Trainer Library

2.1 Online Trainer Library goal

The creation of the POWERPOOR OTL falls under the capacity building and training activities of the POWERPOOR project. Within the project, training activities will be implemented to build the capacity and knowledge of the project partners to implement successful and sustainable energy poverty alleviation schemes and to train and certify the potential **Poverty Supporters (ESs)** and **Energy Mentors (EMs)**. ESs and EMs will provide support on the ground and assist energy poor citizens to understand their energy use, implement energy efficiency interventions and participate in joint energy initiatives. Specifically:

- ▶ **Poverty Supporters (ESs)** will engage citizens suffering from energy poverty, provide advice and enable them to plan, secure funding and implement energy efficiency interventions.
- ▶ **Energy Mentors (EMs)** will provide support and expertise in all key areas associated with the operation and/or the creation of an energy community/cooperative, comprised of citizens and/or supported by local authorities for the alleviation of energy poverty along with support in setting up joint energy initiatives such as energy communities or cooperatives and leveraging innovative financing schemes such as crowdfunding campaigns.

The Online Trainer Library (OTL) goal is twofold. Firstly, the OTL serves as a database of useful material for the development of the training modules and the programmes. Secondly, as part of the POWERPOOR website, it will be an open access-point to key-reference documents about energy poverty as a phenomenon and about collective innovative actions to address it. It will also include all the training material generated during the project period as well as the practical tools POWER TARGET, POWER ACT, POWER FUND, and Energy Poverty Guidebook, making them publicly available for future use by actors interested to replicate and build upon the POWERPOOR concept and approach to tackling energy poverty.

- ❑ The **POWER TARGET tool** will support local and regional authorities to identify energy poor citizens using both a quantitative and a qualitative approach.
- ❑ The **POWER ACT tool** will be utilised to facilitate behaviour change and support citizens in implementing energy efficiency measures.
- ❑ The **POWER FUND tool** will provide citizens with information on funding opportunities for a variety of projects that can enable them alleviate energy poverty, including: (a) information on how to join, create and operate an energy community/cooperative; and (b) information on how to organise crowdfunding campaigns.
- ❑ The **Energy Poverty Guidebook** will be developed to support local authorities by providing guidelines for identifying energy poor citizens/communities /areas/districts depending on data availability and for incorporating pioneer actions to alleviate energy poverty in Sustainable Energy and Climate Action Plans

(SECAPs).

2.2 Methodology employed

The creation of the OTL was realised in phases, which should not be viewed as independent to each other rather than subsequent steps due to a high degree of overlapping.

- ❑ Initially, the goal of the library was identified and elaborated in relation to its audience and the needs it is foreseen to serve.
- ❑ Secondly, the type of the material that belongs to the OTL was analysed and potential sources were identified.
- ❑ The above fed into the development of the OTL Database template (Annex I) where the resources were classified under carefully selected terms.
- ❑ Gathering and classifying the relevant material with the contribution of the POWERPOOR partners.
- ❑ Preparation of material to be integrated into the POWERPOOR website.

As per the methodology that was followed in order to gather the content of the OTL, this has been realised by performing a desk-based research with the contribution of the consortium partners at regular solicitation rounds (one in October 2020 and one in March 2021). Input provided from the consortium partners needed to ensure that the OTL content would reflect the diversity of energy poverty manifestations, good practices, and collective approaches to tackle it across Europe. The consortium consists of 14 partners, predominantly regional organisations, and European associations from 11 European countries, representing different types of regions (northern, southern, eastern, and western Europe), with different needs and characteristics.

2.3 Online Trainer Library target audiences

The OTL is integrated into the POWERPOOR website (<https://powerpoor.eu/>) thus its content is publicly available. Nevertheless, certain target groups have been identified in the planning phase of the OTL development, each with a different role and level of engagement in the activities of the POWERPOOR project. Consequently, different needs and potential uses of the OTL were foreseen that influenced its structure and content.

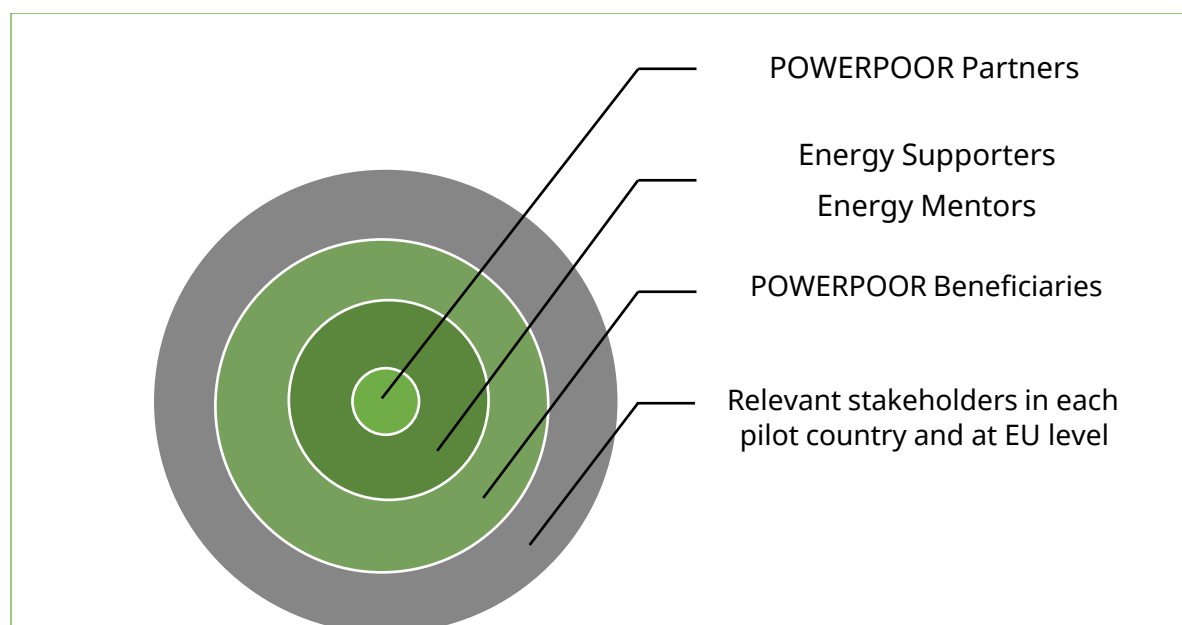


Figure 1 - Online Trainers' Library target audiences and level of engagement in the POWERPOOR project

The below table presents the various target audiences of the library and the needs identified in relation to the library while taking into consideration their level of engagement in the project.

Table 1 - Online Trainer's Library target audiences and needs identified.

TARGET AUDIENCE	ENGAGEMENT	NEEDS
POWERPOOR partners	Development of training curriculum, participation in Train-the-Trainers programme, creation of practical tools, preparation of policy recommendations.	<ul style="list-style-type: none"> — Profound understanding of energy poverty phenomenon and policies for its mitigation. — Access to lessons learnt and good examples/best practices.
Energy Supporters (Local authorities, Housing providers, social workers, health practitioners, Unemployed individuals, and graduates)	Provision of advice to citizens suffering from energy poverty on energy savings and lower energy expenses through behaviour change and support to plan, secure funding, and implement energy efficiency interventions.	<ul style="list-style-type: none"> — Profound understanding of energy poverty phenomenon and policies for its mitigation. — Practical knowledge on tackling energy poverty through behavioural change, energy efficiency interventions. — Access to material that would build their soft skills and support them in conducting effective face-to-face meetings and house visits.

TARGET AUDIENCE	ENGAGEMENT	NEEDS
Energy Mentors (Local authorities, Housing providers, social workers, health practitioners, Unemployed individuals, and graduates)	Provision of support and expertise in all key areas associated with the operation/creation of an energy community/cooperative and the set-up of a crowdfunding campaign.	<ul style="list-style-type: none"> — Profound understanding of the energy poverty phenomenon and policies for its mitigation. — Theoretical and practical knowledge on tackling energy poverty through collective actions, energy communities/cooperatives at the local level, and innovative financing schemes such as crowdfunding campaigns. — Access to material that would build their soft skills and support them in conducting effective face-to-face meetings and house visits.
POWERPOOR Beneficiaries (Citizens suffering from Energy Poverty)	Final recipients of all the POWERPOOR planned activities and tools developed, as well as all regional and municipal policies and actions triggered by the project.	<ul style="list-style-type: none"> — Profound understanding of energy poverty phenomenon and policies for its mitigation. — Practical knowledge enabling them to better understand their energy use. — Access to best practices and case studies to encourage them to implement energy efficiency interventions in households and change in their behaviour to achieve energy savings and cut energy expenses.

TARGET AUDIENCE	ENGAGEMENT	NEEDS
Relevant stakeholders in each pilot country/ EU level (Representatives from alternative financing schemes, Civil Society, Other stakeholders linked to energy planning/services, Academia/Universities)	<p>Knowledge sharing and contribution to the energy poverty support programs.</p> <p>Use the tools, material and the methods developed to engage energy poor citizens more effectively.</p> <p>Contribute and shape energy poverty policies by sharing knowledge and expertise.</p> <p>Use the training modules to train young engineers/scientists on sustainable energy planning with a focus on energy poverty mitigation.</p>	<ul style="list-style-type: none"> — Access to information on sustainable energy planning and especially on the contribution of collective actions to address energy poverty. — Opportunity to showcase and disseminate their work on energy poverty, innovative financing, socially innovative policies/practices to tackle energy poverty and local, national, EU levels. — Access to training material/toolkit generated by the project along with best practices and case studies.

3. Online Trainer Library content and added value

The OTL database consists of:

- ❑ POWERPOOR training material (Energy poverty mitigation toolkit, capacity building and training presentations, and other resources relevant to the approach deployed by the POWERPOOR project).
- ❑ POWERPOOR deliverables (reports, outputs).
- ❑ POWERPOOR publications (relevant publications by the partners, scientific or in the press).

More specifically, OTL's training material consists of the practical tools generated within the project as well as material generated through relevant EU projects and other initiatives that focus on energy efficiency interventions/behaviour change and energy savings as well as on creating, facilitating, or supporting joint energy initiatives and innovative financing schemes. Resources that highlight climate social innovation as a way of tackling energy poverty at the local level are also part of the library. Lastly, material that could be used to strengthen the communication/soft skills of the ESs and EMs are also included.

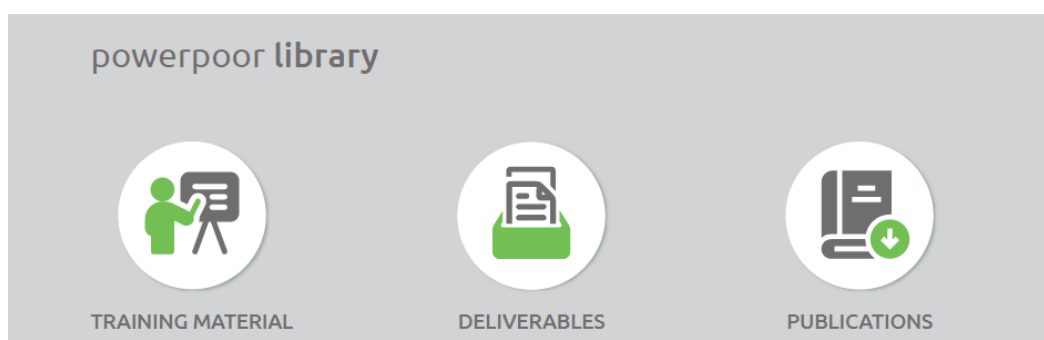


Figure 2 - The three elements of the library as displayed on the POWERPOOR website

3.1 POWERPOOR publications

This section includes any papers, books, or articles that the partners may produce within the scope of the project, that do not support the capacity building and training activities, but rather enrich the knowledge over energy poverty and related topics.

3.1 POWERPOOR deliverables

Access to all public deliverables of the project will be provided through the OTL, such as the EU Policy Recommendations & National Roadmaps to alleviate energy poverty report aiming to inform policy makers at the EU and national level of lessons learnt from POWERPOOR and to help them to formulate energy poverty alleviation policies considering a multilevel governance approach. The reports and outputs will be gradually uploaded on the POWERPOOR website.

3.2 POWERPOOR training material

Within the course of the project, an Energy Poverty Mitigation toolkit will be gradually produced and utilised in the programmes aiming to support citizens suffering from

energy poverty and to encourage them to use alternative financing schemes. The toolkit consists of three ICT tools:

- ❑ The POWER TARGET tool is based on a data-driven approach aiming at supporting local and regional authorities to identify citizens suffering from energy poverty as well as groups or communities suffering from the phenomenon. This tool will use qualitative and quantitative indicators, such as energy-related data, building characteristics and other sociodemographic data.
- ❑ The POWER ACT tool will be a citizen centred application, utilised by citizens to facilitate behaviour change and support them in implementing energy efficiency measures.
- ❑ The POWER FUND tool will provide citizens with information on funding opportunities for a variety of projects that can help alleviate energy poverty, including: (a) an on-line marketplace for becoming a member of or creating an energy community/cooperative; and (b) information on how to organise crowdfunding campaigns.

Added to the above practical tools, the curriculum material and presentations used in the capacity building trainings of the ESs, and EMs will be also included in the OTL, so that interested citizens and actors can refer to them on demand.

Additional training material aiming to enhance the knowledge and capacity of the ESs and EMs as well as of other actors (e.g., local communities, civil society organisations, households etc.) is part of the OTL. These documents address various topics linked to the four POWERPOOR modules that were developed for the purposes of the capacity building and training activities of the project, each also linked to practical tools (see section 2.3). These resources have been classified according to their relevance to each POWERPOOR module or to a combination of them (Table 2).

Table 2 - POWERPOOR modules; Their focus, linkage to practical tools and additional OTL training material

MODULES	FOCUS	TOOL	RESOURCES
MODULE 1 ENPOV	Energy poverty concepts, policies, and multilevel governance; global and EU scope.	POWER-TARGET	Resources classified under TARGET revolve around energy poverty definition, indicators, energy poor citizens' identification etc.
MODULE 2 ACTION	Energy poverty alleviation policies and practices (low-cost measures, energy efficiency interventions).	POWER-ACT	ACT puts together material on behaviour change, energy efficiency measures, savings tips, home visits etc.

MODULES	FOCUS	TOOL	RESOURCES
MODULE 3 FUND	Energy communities/ cooperatives, crowdfunding and other joint initiatives.	POWER-FUND	FUND gathers tools and methods to make joint energy initiatives and innovative financing schemes accessible to citizens facing energy poverty.
MODULE 4 PLAN	Climate and social innovation tools to alleviate energy poverty at a local level.	Energy Poverty Guidebook for Energy Planning	PLAN presents material on the integration of energy poverty in sustainable energy and climate action planning and urban sustainability policies.

More specifically, by means of research and through the partners' input, 107 such resources were gathered. Analysing how many times each module appears in total or in combination with other modules, provides insight on the content of the library. Based on the data presented in Figure 3 and Figure 4, we can conclude the following:

- ❑ **Module PLAN** is used the most (61 appearances in total) for the classification of content in the library combined with other modules (it is used independently only 8 out of the 61 times). It appears as an element in all possible combinations, with the combination FUND-PLAN to be used the most. This indicates that the majority of the resources include policy recommendations to tackle energy poverty at the local level and that most of these focus on the deployment of energy collectives/cooperatives at the local level.
- ❑ **Module FUND** ranks second in total times of appearance, which implies that there is a critical number of resources focusing on collective actions and innovative financing included in the library.
- ❑ **Module ACT** refers to energy poverty alleviation practices and ranks third in total appearances. Similarly, to module PLAN, it also appears in all possible combinations. It is worth mentioning that the most frequent combination of modules is ACT-PLAN. This is translated to resources that address energy savings either through soft measures or via energy efficiency interventions and include policy proposals on how to integrate these practices in policies at the local, national, and European levels.
- ❑ **Module TARGET** is used the least in the classification of material. It ranks second in independent appearances (13 times) followed by module FUND (18 times). This suggests that the area of energy poverty definition, identification of energy poor citizens and policies to address the above could be enhanced in the future.

The following two graphs present a breakdown of the library's content per Module. More specifically, Figure 3 shows how often each Module has been used in order to classify resources, and Figure 4 shows the various combinations met in the library.

All below graphs (Figures 3-11) are also available online [here](#) and are supported by a 'hover' feature for better visual experience. The as of now presented percentages in this report may differ in the future. All material to be added in the OTL in the next months and during the project duration will be reflected in the online graphs.

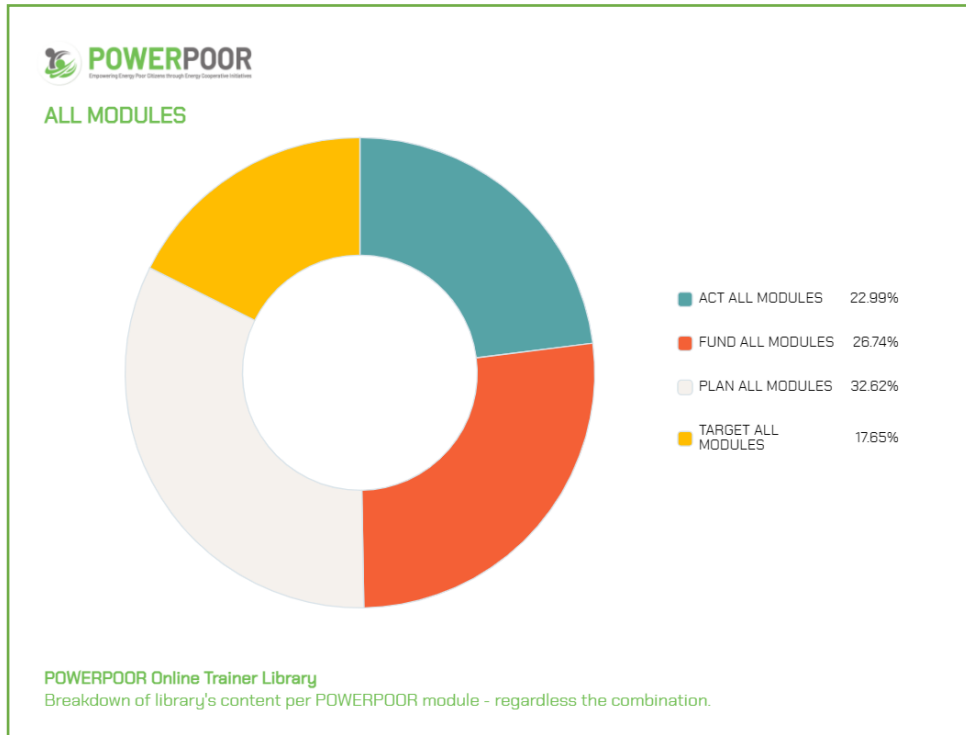


Figure 3 - Breakdown of library's content per POWERPOOR module - regardless of combination

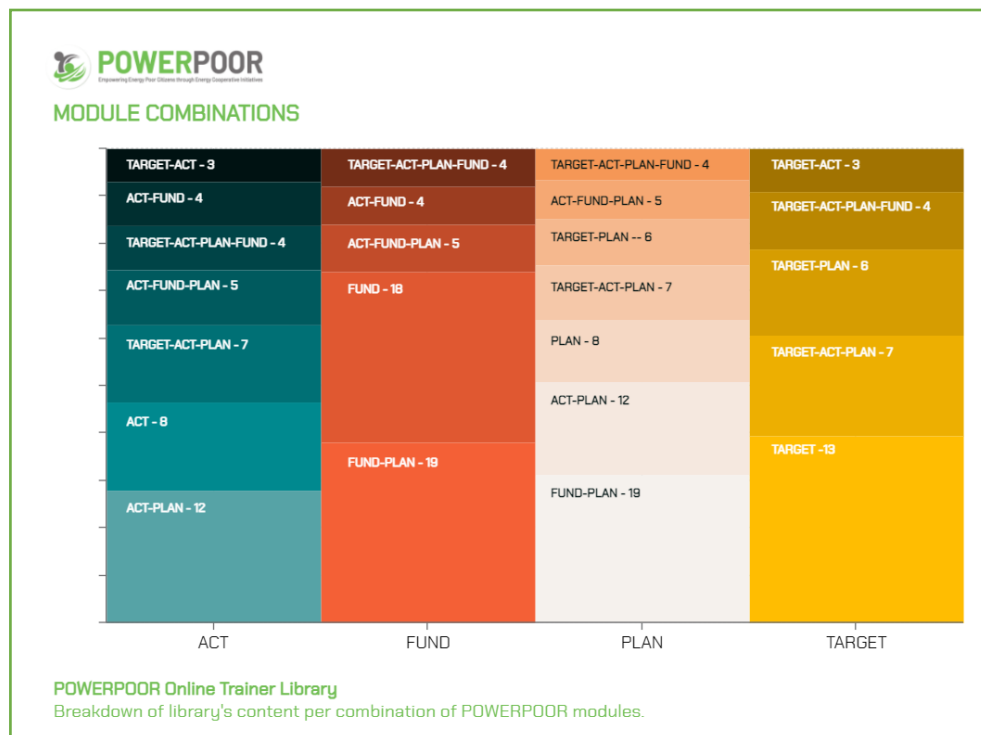


Figure 4 - Breakdown of library's content per POWERPOOR module combinations

In order to elaborate further on the focus of each resource and facilitate navigation through the library, a set of key words was used. These are grouped per POWERPOOR module according to relevance, as seen in the table below.

Table 3 - Key words grouped by POWERPOOR module

TARGET	<ul style="list-style-type: none"> ▪ Energy poverty policies ▪ Energy poverty definition/ indicators ▪ Energy poverty assessment 	PLAN	<ul style="list-style-type: none"> ▪ Climate social innovation, Local energy poverty planning ▪ Urban sustainability policies ▪ Policy recommendations ▪ National roadmaps
ACT	<ul style="list-style-type: none"> ▪ Energy poverty alleviation practices ▪ Behaviour change ▪ Low-cost measures ▪ Energy efficiency interventions ▪ Energy use ▪ Building's energy efficiency ▪ Equipment upgrade ▪ Home visits ▪ Best practices ▪ Energy savings 	FUND	<ul style="list-style-type: none"> ▪ Joint energy initiatives ▪ Energy communities/cooperatives ▪ Innovative financing ▪ Sustainable energy projects ▪ Crowdfunding ▪ Energy investments

The following graphs (Figures 5, 6, 7, and 8) show in detail the topics addressed within each module.

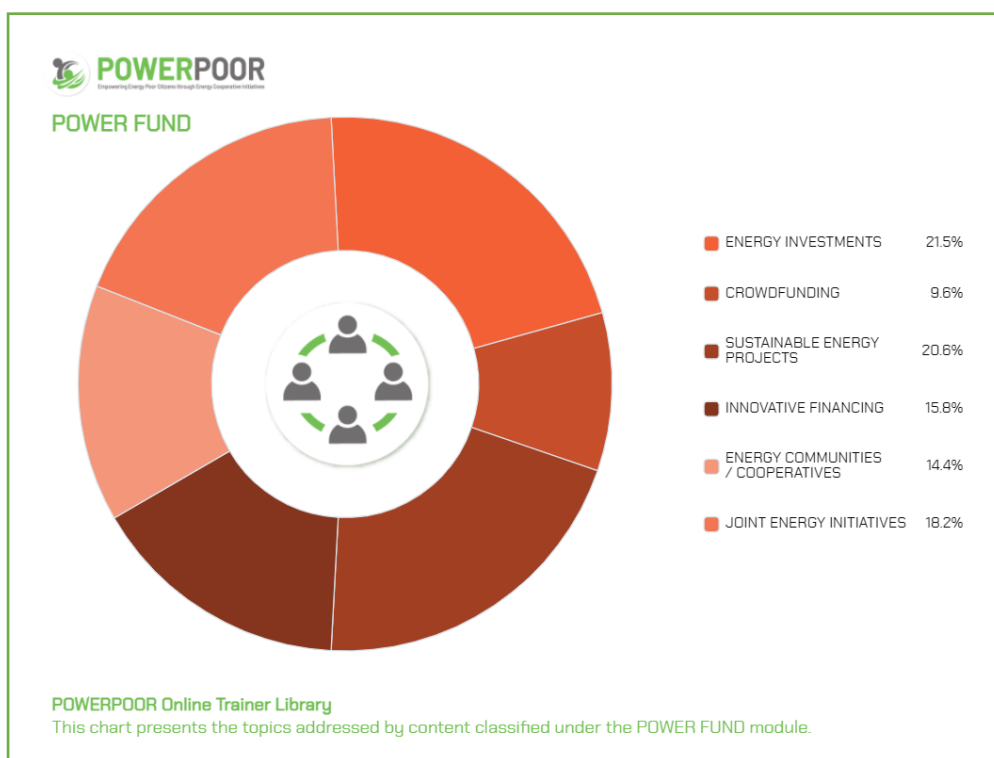


Figure 5 - Topics addressed by content classified under POWER FUND module

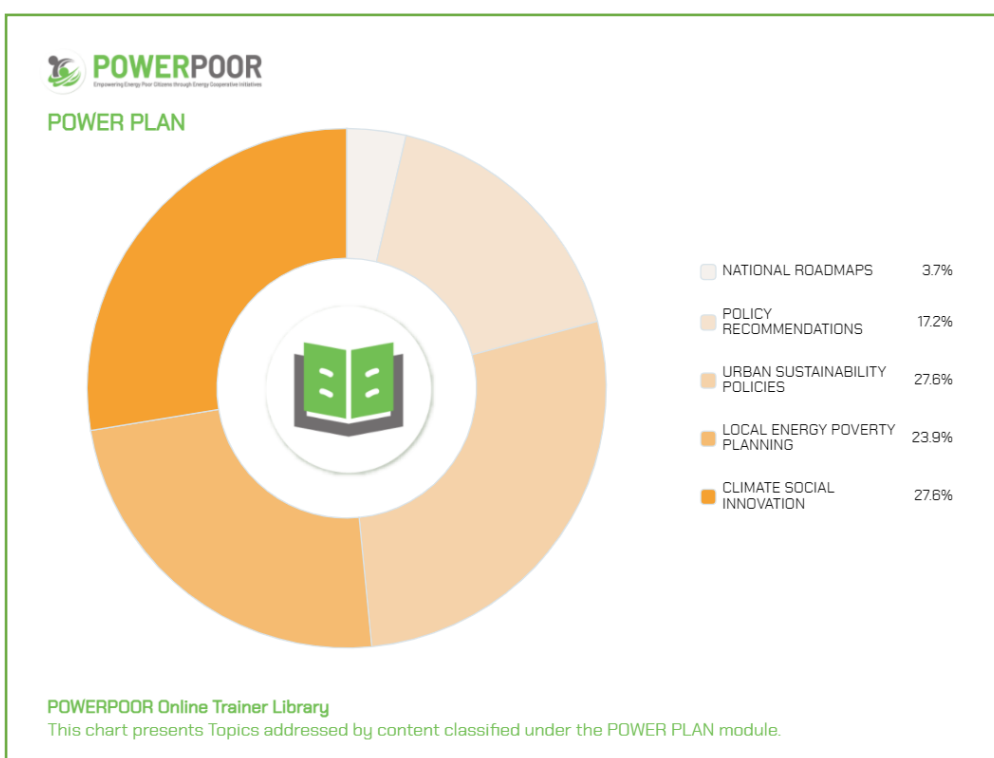


Figure 6 - Topics addressed by content classified under POWER PLAN module

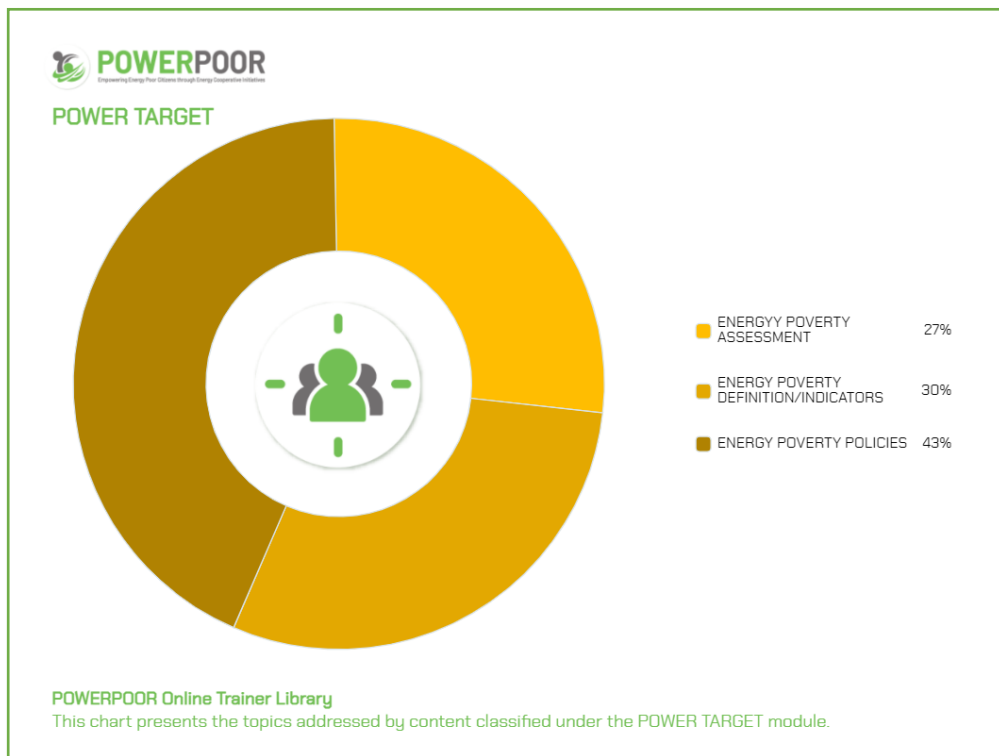


Figure 7 - Topics addressed by content classified under POWER TARGET module

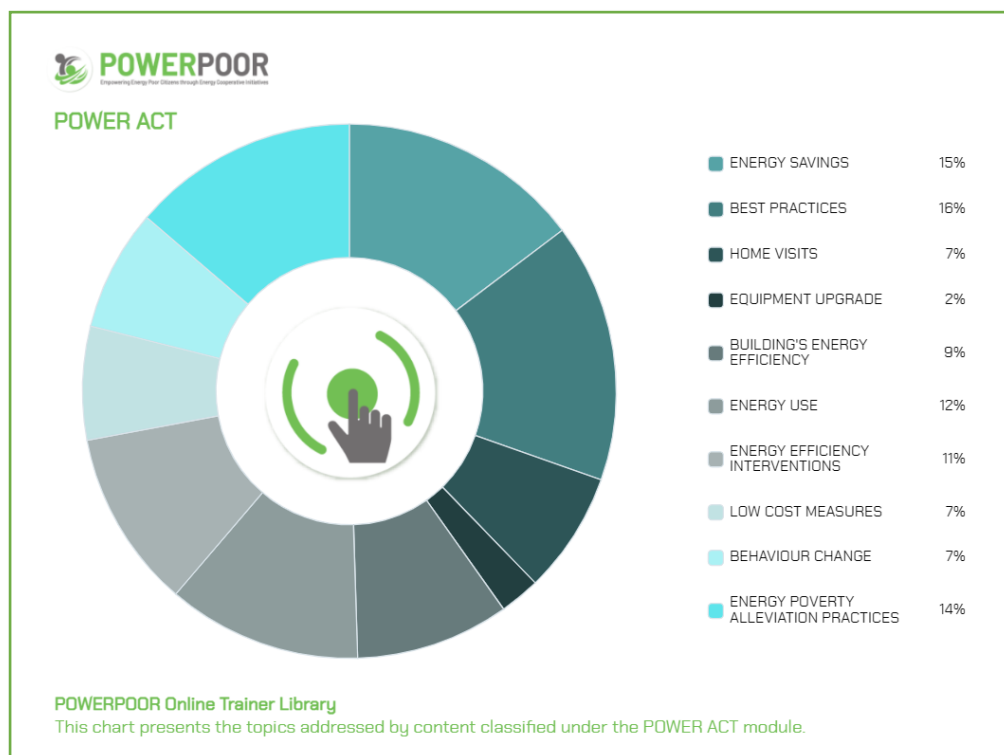


Figure 8 - Topics addressed by content classified under POWER ACT module

As per the general type of the library's content, there is material classified as Theoretical, Methodological, Science-based or Communication. The majority belongs to the Methodological type that reflects guidebooks, reports, toolkits, websites providing

useful information on issues such as actors' engagement, the development and implementation of energy poverty mitigation policies, best practices, and case studies etc.

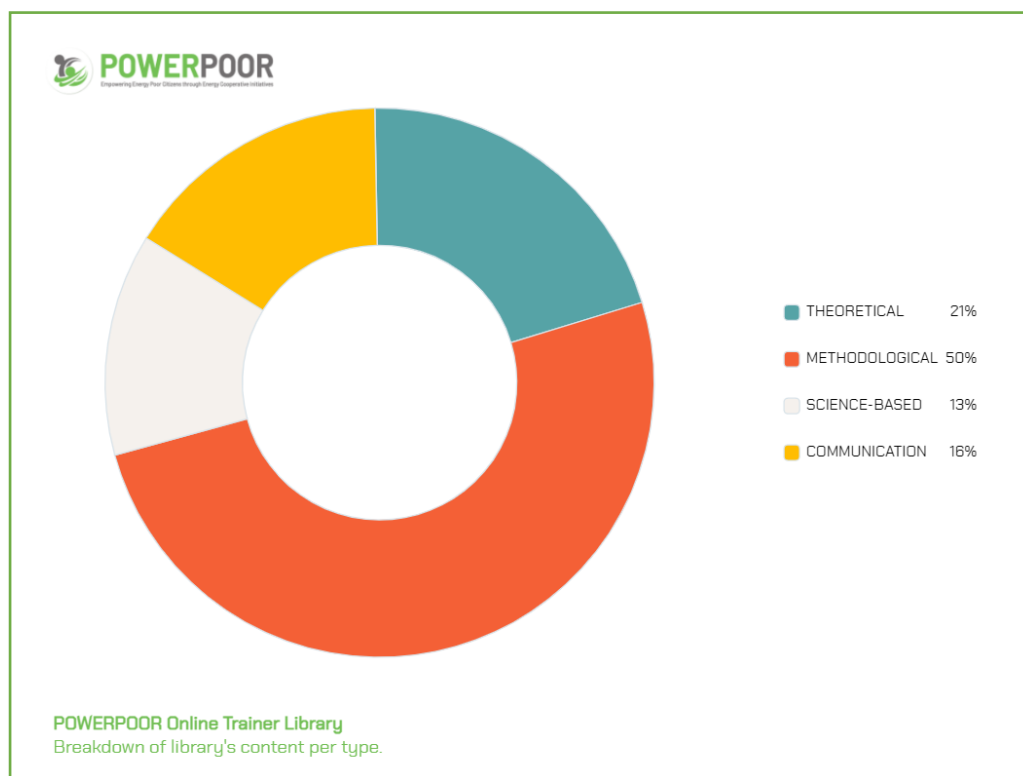


Figure 9 - Breakdown of library's content per type

Resources classified as Communication include primarily material providing straightforward information on aspects relating to energy poverty (e.g., policy briefs) and, to a lesser degree, material that could be used to enhance the soft skills of ESs and EMs (e.g., guidebook on how to set up a successful workshop). Complementing the previous graph, the various formats of the library's content are depicted below. The majority of the content comes from relevant EU projects, in the form of reports (30/107 items), followed by articles (16/107) and guidebooks (14/107).

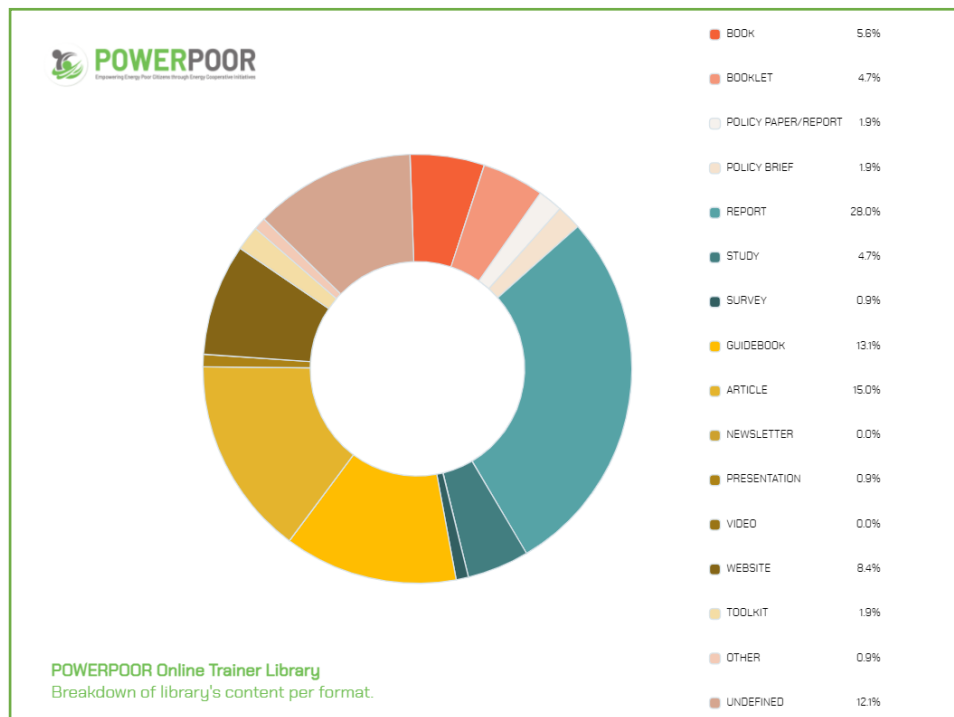


Figure 10 - Breakdown of library's content per format

The library targets a diversity of actors, apart from the ESs and EMs. Civil society organisations (11%), local/regional governments (11%) and academia/students (11%) are the target groups mentioned the most in the classification of the resources. Not so far behind come EMs (10%), policy makers (9%) and energy cooperatives (9%). ESs appear as often as Housing providers, social workers, and health practitioners (8%).

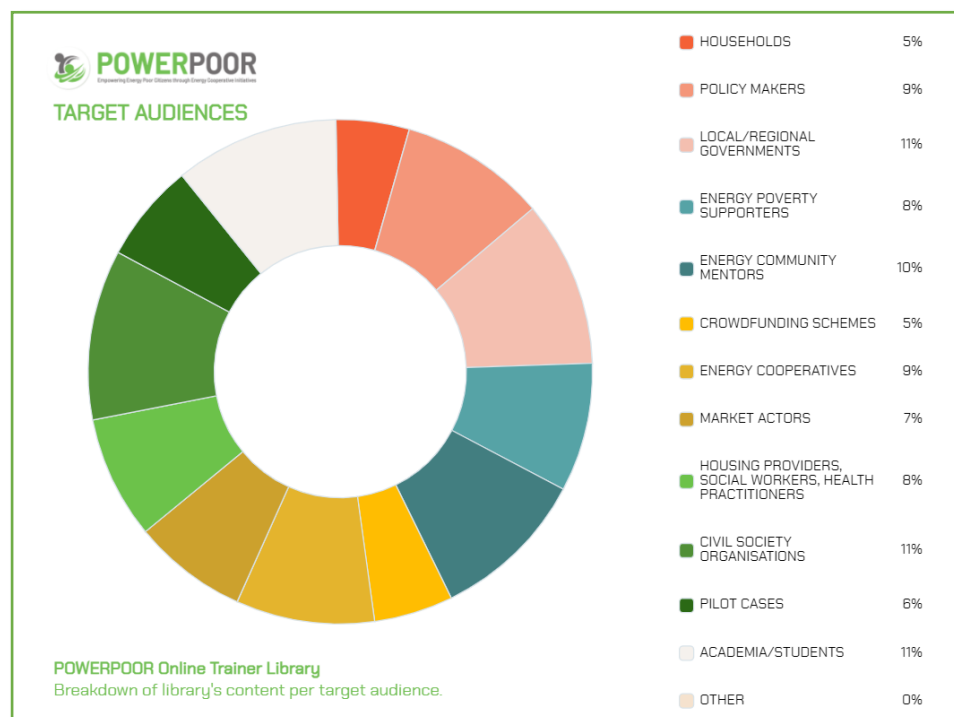


Figure 11 - Breakdown of library's content per target audience

3.3 Online Trainer Library added value

POWERPOOR will ensure synergies with other initiatives, like the Covenant of Mayors and the EU Energy Poverty Observatory (EPOV). These synergies would entail the inclusion of POWERPOOR generated material e.g., Energy Poverty Mitigation Toolkit in their respected resources sections. Therefore, it is inevitable that knowledge platforms (e.g., EPOV, Build Up, REScoop.eu, Covenant of Mayors etc.) would share resources, and this is something positive as it serves the dissemination of useful material to a wider audience by exploiting diverse channels. Nonetheless, the need to make a distinction between POWERPOOR's library and those of other platforms was identified early on. The added value of the POWERPOOR library can be summarised in the following:

- Highlighting resources that emphasise community energy initiatives, innovative financing, and collective citizens' actions as key solutions to energy poverty mitigation.
- Gathering in one place material coming from a variety of EU projects that have explicitly or implicitly (e.g., projects on RES social acceptance) energy poverty alleviation as a goal.
- Targeting a diversity of groups could trigger a multiplying dissemination effect of the POWERPOOR concept and the results of other EU projects and initiatives, while at the same time fits well with the complexity of energy poverty that mandates socially innovative and cross-cutting mitigation strategies.

4. Online Trainer Library on POWERPOOR website

4.1 Accessing the library

The Online Trainer Library can be accessed either through the shortcut on the homepage of the POWERPOOR website (www.powerpoor.eu) or via the navigation bar on the top.

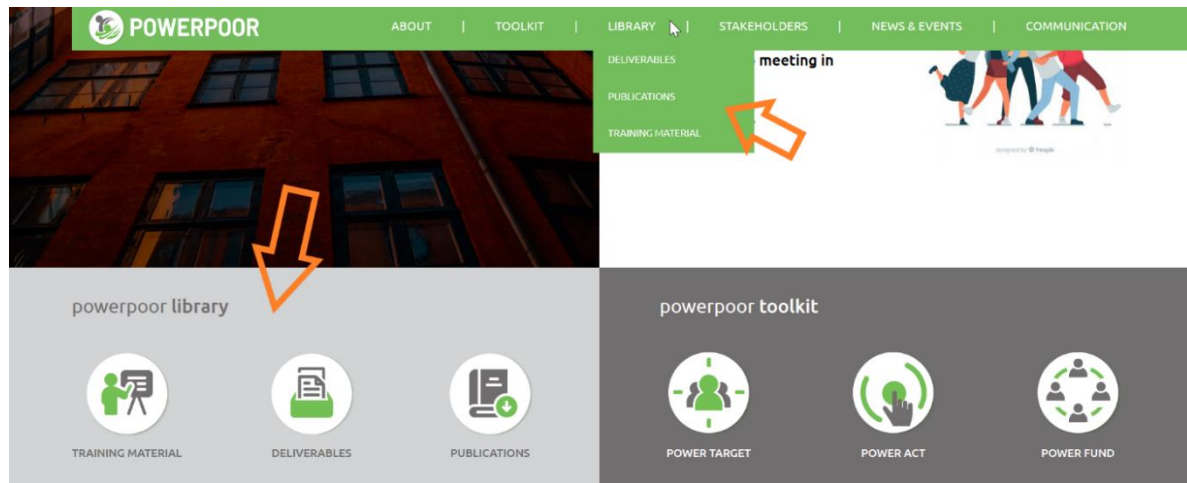


Figure 12 - Homepage of POWERPOOR website

Through the drop-down menu on the top, or via the corresponding buttons users can access a) the **training material**, b) the **deliverables** of the project and c) the relevant **publications**.

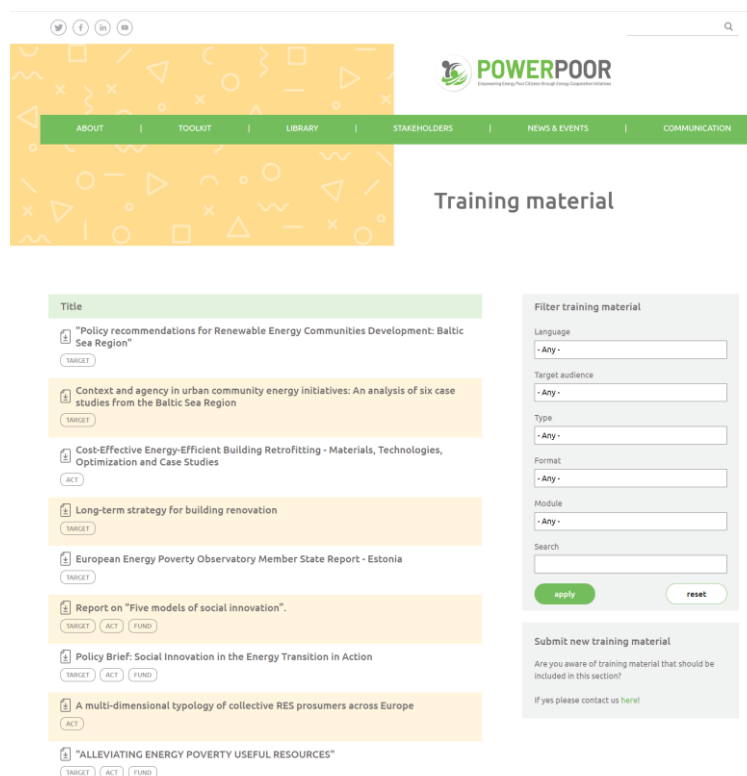


Figure 13 - Training material's page

All training material will be available through the corresponding page of the project's website. It will appear in a straightforward way that includes the title, the relevant module(s), a short description and the access link.

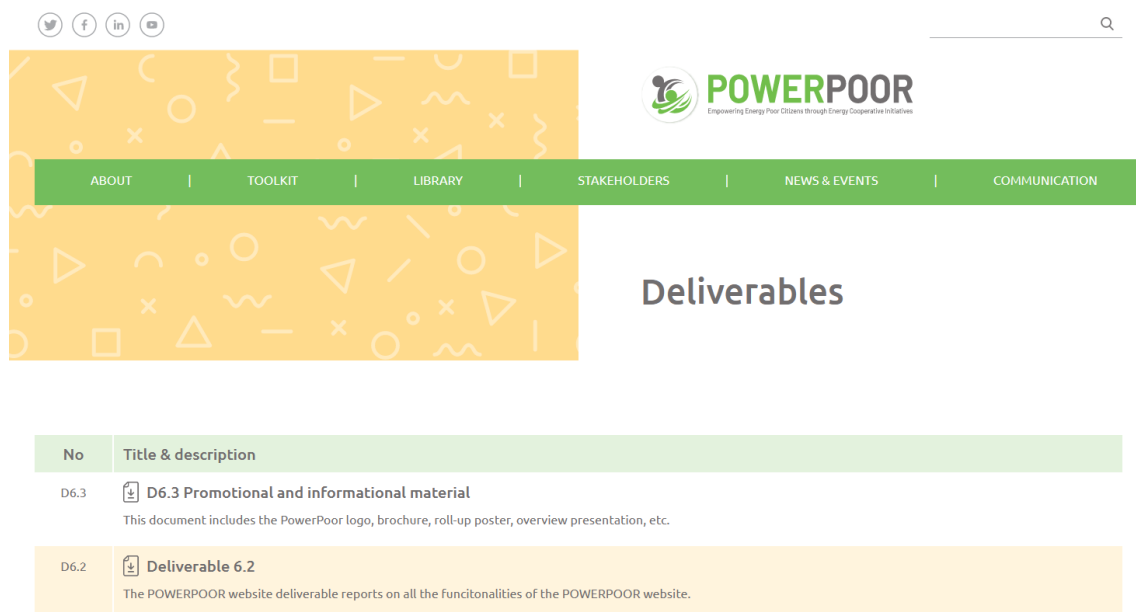


Figure 14 - Deliverables' page

Similarly, all public reports and outputs of the project will be gradually uploaded in the corresponding page, in the form of a list that includes their number, title, a short description and the access link.

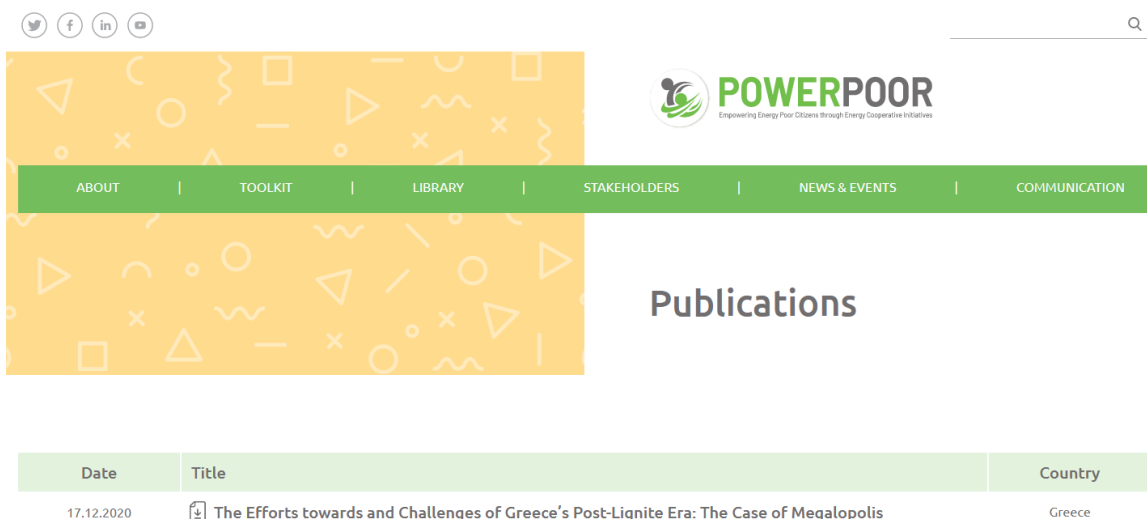


Figure 15 - Publications' page

The same straightforward style is applied to the publications' page. The resources appear in a list that includes the publishing date, the title, and the country of reference.

4.2 Search functionality on training material's page

A search functionality was set up to assist users in navigating through this pool of training resources. Firstly, a number of terms were selected in order to classify the resources. Briefly, each item of the library could be described in one sentence, like this:

The resource titled [TITLE] that can be found at [LINK] and speaks about [SUMMARY] is an e.g., methodological [TYPE] e.g., guidebook [FORMAT] under [MODULE], published by [PUBLISHER], in [YEAR], available in [LANGUAGE(S)], targeting [TARGET AUDIENCE], relevant to [KEYWORDS].

Figure 16 -Classification terms to describe a resource in a sentence

More details about the classification terms are shown in the table below.

Table 4 - Description of classification terms

TERM	Description
TITLE	The title of the resource
LINK	Link providing access to the resource
SUMMARY	A short summary of the content
TYPE	The general type of the resource: Theoretical, Methodological, Science-based, Communication
FORMAT	What kind of resource this is: Book, Booklet, Policy paper/report, Policy brief, Report, Study, Survey, Guidebook, Article, Newsletter, Presentation, Video, Website, Toolkit
MODULE	Relevance to the POWERPOOR module(s) TARGET, ACT, FUND, PLAN (See section 3)
PUBLISHER	Details about the publisher (where applicable)
YEAR	Year of publication
LANGUAGE(S)	Available language(s)
TARGET AUDIENCE	To whom is this addressed to: Households, Policy makers, Local/regional governments, Energy Poverty Supporters, Energy Community Mentors, Crowdfunding schemes, Energy cooperatives, Market actors, Housing providers, social workers, health practitioners, Civil society organisations, Pilot cases, Academia/students, Other
KEY-WORDS	Terms used to further indicate the focus of the resource. These relate to the content of the POWERPOOR MODULES (See tables 2 & 3) and to the search function of the website:

TERM	Description
	Energy poverty policies, Energy poverty definition/indicators, Energy poverty assessment, Energy poverty alleviation practices, Behaviour change, Low cost measures, Energy efficiency interventions, Energy use, Building's energy efficiency, Equipment upgrade, Home visits, Best practices, Energy savings, Climate social innovation, Local energy poverty planning, Urban sustainability policies, Policy recommendations, National roadmaps, Joint energy initiatives, Energy communities/cooperatives, Innovative financing, Sustainable energy projects, Crowdfunding, Energy investments

Secondly, the classification terms were narrowed down to be used as search filters on the publications' page. The filters were selected on the basis of the characteristics of the library's target audiences. Namely, their field of activity, geographic dispersion, and level of engagement in the project. As a result, the following filters were set up: Language, Target audience, Type, Format, Module, and open search using key words.

Filter training material

Language
- Any -

Target audience
- Any -

Type
- Any -

Format
- Any -

Module
- Any -

Search

apply reset

Figure 17 - Search functionality on publications' page

4.3 Submission form for new material

The OTL is a dynamic element of the POWERPOOR website and will be regularly updated with deliverables, training and other interesting material and relevant publications. Beyond the life of the project, the pool of supplementary resources will be enriched through the website. A "submit new material" message has been integrated in the training material's page that leads to a customised form, allowing stakeholders to propose documents they wish to be included in the library. The partners will check the validity of the resources and integrate the proposed documents if they are value adding. The structure of the customised form and the accompanying introductory text are presented in Annex II.

Submit new training material

Are you aware of training material that should be included in this section?

If yes please contact us [here!](#)

Figure 18 - Submit new material corner on training material's page

Beyond the project life, the OTL operation and maintenance will fall under the POWERPOOR Alliance, a vehicle for the joint exploitation of the project's results after the project end with the aim of sustaining the network of Energy Supporters and Mentors by providing services and attracting new members. The POWERPOOR Alliance will build upon the Stakeholder Liaison Groups that have already been established in each country to serve as a focal point and an advocate of the project activities and results. They embody a diverse group of stakeholders, including but not limited to municipalities, regions, energy agencies, universities, social services, non-governmental organisations, utilities, and media.

5. Conclusions

The document presents an analysis of the creation of the POWERPOOR Online Trainer Library, as part of the capacity building and training activities developed during the project lifespan. The OTL is designed as an open and dynamic element of the project, from which multiple and diverse stakeholders could benefit, besides its primary target audience, the Energy Supporters and Mentors, both during and beyond the project life. Content wise, the OTL reflects the multifaceted nature of the energy poverty as a social, economic, and environmental challenge while it pinpoints the linkage between energy poverty mitigation policies and sustainable climate policies, especially at the local level, as well as at national and European.

Summarising the main results of the overview of the OTL, as described in this report, the following can be concluded:

- ❑ The library's material addresses the needs of various stakeholders as it is comprised by theoretical, science-based resources as well as more practical and methodological type of resources (e.g., POWERPOOR toolkit, guidebooks). In addition, straight-forward information on energy poverty and mitigation policies/practices is available for those less familiar with the problem and ways to address it.
- ❑ The contribution of collective actions and innovative financing in tackling energy poverty is an emerging topic that addresses the major challenge of securing funds for energy interventions that most energy poor citizens face. This linkage, as well as community energy and crowdfunding per se, are documented by means of a number of resources, varying in terms of type, format, and language.
- ❑ All three elements of the library; the training material, the deliverables, and the publications, will be enhanced as the project progresses through the contribution of POWERPOOR partners and other stakeholders. In parallel, additional channels will be utilised to ensure the dissemination of the POWERPOOR Energy Poverty Mitigation Toolkit and other training material generated through the POWERPOOR project.

Energy poverty as well as collective actions and innovative financing schemes addressing it are issues of increasing significance that are not fully explored nor comprehended in many Member States. The POWERPOOR library will be enriched beyond the project's life with additional material capturing the state-of-the-art in the above focus areas in order to cover blind spots and to further enhance the POWERPOOR approach. As part of the overall sustainability and replication of the project the POWERPOOR Alliance and its national chapters will be established. These diverse, multilevel, interdisciplinary groups of actors will steer the exploitation process of the project's results in their respective countries. More specifically, they will be responsible for sustaining the network of Energy Supporters and Mentors, by attracting new members and providing services to the network. Maintaining an up-to-date database of resources to deepen the knowledge of prospective ESs and EMs, providing e-access to the POWERPOOR toolkit and facilitating the development of training and certification activities are a few of such services.

Annexes

Annex I: OTL database template

YOU CAN CHOOSE MORE THAN ONE OPTION												YOU CAN CHOOSE MORE THAN ONE OPTIONS IN THE FIELDS BELOW PLEASE IGNORE THE ERROR MESSAGE				
Online Trainer Library (Task3.1 - Subtask 1)		Date:	Please provide a short summary (2-3 phrases) describing the content of the resource in English.		Please choose from the dropdown menu the corresponding POWERPOOR module		Please choose from the dropdown menu the most appropriate		Please choose from the dropdown menu the format of the resource		Please choose from the dropdown menu the target group(s) to whom the resource is addressed to		Please choose from the dropdown menu the language(s) in which the resource is available		Please choose from the dropdown menu the most relevant key-words (more than one option is recommended). This will be used in the search field in the website	
TITLE	LINK	SUMMARY	MODULE	TYPE	FORMAT	PUBLISHED	YEAR	TARGET AUDIENCE	LANGUAGE	KEY-WORDS						
SAVING ENERGY IN SOCIAL HOUSING Use our Model to Help your Tenants Save Energy in their Homes, Final report TRIME	https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/d1.2_trime-publishable-report_final.pdf	This Guide has been written to help social housing organisations (SHOs) to provide energy saving advice to their tenants by means of their neighbours (Energy Ambassadors). The 3 stages of the TRIME model - recruitment, training and advice – form the basis of the energy saving advice model developed as a result of the project.	ACT	Methodological	Guidebook	TRIME project	2014-2017	Housing providers, social workers, health practitioners	English	Behaviour change, Low cost measures, Energy use, Energy savings, Best practices						
Guidelines: Introducing Advisory Services on How to Save Energy For Low-income Households, Final Report ACHIEVE	https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/achieve_guidelines_en.pdf	This guideline was developed to transfer the concept of the Cariteam Energiesparservice Frankfurt to other cities in Germany. the project idea of Cariteam Energy Saving Service Frankfurt/Main: Households on low income are, within an employment promotion project, advised on-site by former long-term unemployed people on how to save water and energy, on an equal footing at that.	ACT, PLAN	Methodological	Report	Caritasverband Frankfurt e.V for ACHIEVE Project	2011	Local/regional governments, Civil society organisations, Policy makers, Energy Poverty Supporters, Pilot cases, Energy Community Mentors	English	Energy poverty alleviation practices, Energy savings, Climate social innovation, Urban sustainability policies, Local energy poverty planning						

Annex II: OTL's online submission form for new material

Section 1: Indicative intro text

Are you aware of any interesting material that should be included in the POWERPOOR library? If so, we would like to hear from you!

The POWERPOOR Online Trainer Library is planned as an open and dynamic tool aiming at enhancing the capacity of Energy Supporters and Mentors, as well as that of any additional actors willing to support citizens suffering from energy poverty in understanding their energy use, implementing energy efficiency interventions, and securing funding via joint energy initiatives and innovative financing schemes.

If you wish to share any interesting material with the POWERPOOR network, find out more about the POWERPOOR library here, fill in this form and we will notify you once the proposed material is online.

May you have any doubts about the submission process or the selection criteria, do not hesitate to contact us at info@powerpoor.eu.

Training material we welcome

The Online Trainer Library (OTL) serves as an open access-point to key-reference documents over energy poverty as a phenomenon and collective innovative actions to address it. We welcome new resources that:

- ❑ Enhance the capacity of Energy Supporters and Mentors, as well as that of any additional actors willing to support citizens suffering from energy poverty in understanding their energy use, implementing energy efficiency interventions, and securing funding via joint energy initiatives and innovative financing schemes.
- ❑ Emphasise on community energy initiatives, innovative financing, and collective citizens' actions as key solutions to energy poverty mitigation.
- ❑ Derive from a variety of EU projects that have explicitly or implicitly (e.g., projects on RES social acceptance) energy poverty alleviation as a goal.
- ❑ Highlight the complexity of energy poverty that mandates socially innovative and cross-cutting mitigation strategies.

Section 2: Submission form

Full name: *Please provide your full name. This information will be used strictly for communication with regard to the submission process*

Email: *Please provide your Email. This information will be used strictly for communication with regard to the submission process*



Organisation: *Please provide the name of the organisation on behalf of which you submit the resource*

Address of organisation: *Click or tap here to enter text*

Country: *Click or tap here to enter text*

Full project name: *If the resource is developed within a specific project, please state the full name of the project*

Project name in abbreviation: *If relevant, please provide an abbreviation of the project*

Resource title: *Click or tap here to enter text*

Resource link: *Please provide a link to the resource, if published*

Resource file: *Please submit a resource file (One file only. 10 MB limit. Allowed types: pdf doc ppt)*

Summary: *Please provide short description of the resource (max 150 characters)*

Type: Choose an item. *(Single-option drop-down list)*

Format: Choose an item. *(Single-option drop-down list)*

MODULE: *Please indicate the Module(s) that the resource relates to. More than one option can be selected. (Box allowing for multiple options to be selected)*

Publisher: *Provide the name of the publisher, if applicable*

Year: *Click or tap here to enter text*

Language(s): *Please provide the available language(s) of the resource (Box allowing for multiple options to be selected)*

Target Audience: *Please indicate to whom this resource is addressed to, by choosing from the options below. More than one option can be selected. (Box allowing for multiple options to be selected)*

Keywords: *Please select the most relevant keywords from the options below. (Box allowing for multiple options to be selected)*

Annex III: Library database¹

a/a	TITLE	CONNECTION TO POWERPOOR MODULE	LINK TO MATERIAL
1	Policy recommendations for Renewable Energy Communities Development - Baltic Sea Region	TARGET	https://powerpoor.eu/sites/default/files/2020-12/Final_O4.2_Co2mmunity_White-Paper_policy-recommendations_final.pdf
2	Context and agency in urban community energy initiatives: An analysis of six case studies from the Baltic Sea Region	TARGET	https://powerpoor.eu/sites/default/files/2020-12/1-s2.0-S0301421520306674-main.pdf
3	Cost-effective energy-efficient building retrofitting	ACT	https://powerpoor.eu/sites/default/files/2020-12/Cost-EffectiveEnergy-EfficientBuildingRetrofitting-MaterialsTechnologiesOptimizationandCaseStudies-InfoPages.pdf

¹ The library had 107 entries in the first submission (in April 2021) but since the contents are being continuously updated now (in the second submission, in July 2022) it contains 152 entries including both open access documents from various sources and all the training materials that have been developed within the POWERPOOR project as well as all the POWERPOOR public deliverables.

4	Estonia: Long-term strategy for building renovation	TARGET	https://powerpoor.eu/sites/default/files/2020-12/Long-term-strategy-for-building-renovation-in-Estonia.pdf
5	EPOV Member State Report Estonia	TARGET	https://powerpoor.eu/sites/default/files/2020-12/extended_member_state_report_-_estonia.pdf
6	SMARTEES: Report on "Five models of social innovation"	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/SMARTEES_D3.4_Models_social_innovation_R1.pdf
7	SMARTEES: Policy brief on "social innovation in energy transition" in action	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/SMARTEES_D3.3_Policy_Brief_R1.pdf
8	PROSEU: A multi-dimensional typology of collective RES prosumers across Europe	ACT	https://powerpoor.eu/sites/default/files/2020-12/PROSEU_D2.2_A%20multi-dimensional%20typology%20of%20collective%20RES%20prosumers%20across%20Europe.pdf
9	ALLEVIATING ENERGY POVERTY USEFUL RESOURCES	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/energy-poverty-useful-resources.pdf

10	The Covenant of Mayors for Climate and Energy Reporting Guidelines	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2020-12/Covenant_ReportingGuidelines.pdf
11	Regulamento n.º 266/2020	FUND	https://powerpoor.eu/sites/default/files/2020-12/0013800155.pdf
12	PRESIDÊNCIA DO CONSELHO DE MINISTROS	FUND	https://powerpoor.eu/sites/default/files/2020-12/0004500062.pdf
13	COMPILE: Regulatory frameworks for energy communities in the pilot site countries Croatia, Spain, Greece, Portugal and Slovenia	FUND	https://powerpoor.eu/sites/default/files/2020-12/COMPILE_D2_3_Regulatory_frameworks_for_EnC_v1_1.pdf
14	Energy poverty policies and measures in 5 EU countries: A comparative study	TARGET	https://powerpoor.eu/sites/default/files/2020-12/1-s2.0-S037877881832334X-main.pdf
15	Energy poverty vulnerability index: A multidimensional tool to	TARGET	https://powerpoor.eu/sites/default/files/2020-12/1-s2.0-S2352484718303810-main.pdf

	identify hotspots for local action		
16	European energy poverty metrics: Scales, prospects and limits	TARGET	https://powerpoor.eu/sites/default/files/2020-12/1-s2.0-S2589791820300037-main.pdf
17	Improving Energy Poverty Measurement in Southern European Regions through Equivalization of Modeled Energy Costs	TARGET	https://powerpoor.eu/sites/default/files/2020-12/sustainability-12-05721-v2%20%281%29.pdf
18	Pobreza Energética em Portugal	TARGET	https://powerpoor.eu/sites/default/files/2020-12/Pobreza_Energetica_em_Portugal_AnaMoreira_2018.pdf
19	Manual Ligar	ACT	https://powerpoor.eu/sites/default/files/2020-12/Manual-Ligar.pdf
20	Το παρόν και το μέλλον της Ενέργειας των Πολιτών	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/to_paron_kai_to_mellon_tis_energeias_ton_politin.pdf
21	Ενεργειακή Φτώχεια στην Ελλάδα: Προτάσεις κοινωνικής καινοτομίας για την αντιμετώπισή της	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/energeia_final.pdf

22	Χτίζοντας Ενεργειακές Κοινότητες, η Ενέργεια στα χέρια των πολιτών	FUND	https://powerpoor.eu/sites/default/files/2020-12/BOLL_ENERGY_coverLOW-Final2020.pdf
23	EC-LINC: Energy Check Reduction Program for Low Income Households (Energy mentors)	ACT	https://powerpoor.eu/sites/default/files/2020-12/energiaklub-hu-en-project-ec-linc-energy-consultancy-for-low-income-households-3055.pdf
24	STEP-IN: Living Labs Global Methodology and implementation guidelines	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2020-12/STEP-IN_LIST_D1.2_LL-global-methodology-and-implementation-guidelines_FV-Rev-19.11.2019.pdf
25	Selecting Indicators to Measure Energy Poverty	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2020-12/Selecting%20Indicators%20to%20Measure%20Energy%20Poverty.pdf
26	A multidimensional index to measure energy poverty: the Polish case	TARGET	https://powerpoor.eu/sites/default/files/2020-12/A%20multidimensional%20index%20to%20measure%20energy%20poverty%20the%20Polish%20case.pdf
27	ENERGY POVERTY (Dis)Assembling Europe's Infrastructural Divide	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/2018_Book_EnergyPoverty.pdf
28	Energy Poverty in Hungary	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2020-12/2014_08-09_820.pdf

29	POVERTY OR ENERGY POVERTY? Defining energy poverty in Europe and Hungary	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/energiaklub_szegenyseg_vagy_energiaszegenyseg.pdf
30	REACH: REPORT ON NATIONAL SITUATION IN THE FIELD OF FUEL POVERTY BULGARIA	TARGET	https://powerpoor.eu/sites/default/files/2020-12/D2.2-EAP_EN.pdf
31	Carry out a socio-technical diagnosis at energy poor households	ACT	https://powerpoor.eu/sites/default/files/2020-12/exe-plaquette-formation-diagnostic-generique.pdf
32	ENERGISE: Catalogue of existing good practice examples of programmes and interventions	ACT	https://powerpoor.eu/sites/default/files/2020-12/ENERGISE_D2.1_final.pdf
33	ASSIST 2GETHER: HEA Training Follow-Up Report	ACT	https://powerpoor.eu/sites/default/files/2020-12/hea_training_follow_up_report.pdf
34	ASSIST 2GETHER: HEA training report - ASSIST	ACT	https://powerpoor.eu/sites/default/files/2020-12/hea_training_guidelines%20%281%29.pdf
35	ASSIST 2GETHER: REPORT: HEA	ACT	https://powerpoor.eu/sites/default/files/2020-12/hea_qualification_schema.pdf

	QUALIFICATION SCHEMA		
36	Uncover the underlying motivations and barriers for energy efficient renovations	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/12-03-19-uncover-the-underlying-motivations-and-barriers-for-energy-efficient-renovations_1.pdf
37	Guide To Community Energy Strategic Planning	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/cesp_guide.pdf
38	Report on REScoop business models - REScoop 20-20-20	FUND	https://powerpoor.eu/sites/default/files/2020-12/REScoop-Business-Models.pdf
39	Guide to engage and manage stakeholders - REScoop 20-20-20	FUND	https://powerpoor.eu/sites/default/files/2020-12/REScoop-Guide-for-Stakeholder-Management.pdf
40	Handbook on Investment schemes for REScoop projects - REScoop 20-20-20	FUND	https://powerpoor.eu/sites/default/files/2020-12/Financial-Handbook-for-REScoops-English_2020-10-19-171323.pdf
41	Best practices report - REScoop 20-20-20	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/rescoop_20-20-20_best_practices_en.pdf
42	Energy Solidarity - REScoop Plus	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/LECs%20-%20a%20way%20to%20bring%20all%20Europeans%20along%20in%20the%20energy%20transition.pdf
43	The energy efficiency toolkit for energy communities - REScoop Plus	ACT	https://powerpoor.eu/sites/default/files/2020-12/RES_bestpractices_report2019_V3.2.pdf

44	WISE Power: Wind-Acceptance – a user guide for developers and municipalities	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/2014_08_Deliverable_2_1_final_version.pdf
45	WISE Power result-oriented report; Fostering social acceptance for wind power	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/FINAL_WISE-Power-Result_oriented-report_Deliverable-D1.1-1.pdf
46	REScoop – Municipality Approach	TARGET ACT FUND	https://powerpoor.eu/sites/default/files/2020-12/REScoop%20MECISE%20-%20REScoop%20-%20Municipality%20Approach.pdf
47	REACH: Proceedings of training for partners	ACT	https://powerpoor.eu/sites/default/files/2020-12/D3.2-Proceedings-of-training-for-partners.pdf
48	Guidelines: Introducing Advisory Services on How to Save Energy For Low-income Households	ACT	https://powerpoor.eu/sites/default/files/2020-12/achieve_guidelines_en.pdf
49	TRIME: SAVING ENERGY IN SOCIAL HOUSING	ACT	https://powerpoor.eu/sites/default/files/2020-12/d1.2_trime-publishable-report_final.pdf
50	POWERPOOR: Facilitation and Soft Skills Development Material		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR_Facilitation%20Material_FINAL.pdf

51	POWERPOOR: List of case studies		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR%20List%20of%20Case%20Studies.xlsx
52	POWERPOOR: Sister Projects		https://powerpoor.eu/sites/default/files/2021-12/H2020%20Energy%20Poverty%20Projects.xlsx
53	POWERPOOR: POWER TARGET and ACT guide and exercise		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR_Training_Module%201%20POWER_TARGET_ACT_EXERCISES_0.pdf
54	POWERPOOR: POWER FUND Guide		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR_Training_POWER%20FUND%20Guide_2.pdf
55	POWERPOOR: MODULE 4 Planning Energy Poverty Actions on a local level (PLAN)	PLAN	https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR%20Training%20Module%204.pdf
56	POWERPOOR: MODULE 3 Financing energy poverty alleviation actions (FUND)	FUND	https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR%20Training%20Module%203%20.pdf
57	POWERPOOR: MODULE 2 Energy Poverty Alleviation Policies and Actions	ACT	https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR%20Training%20Module%202%20_0.pdf
58	POWERPOOR: Module 1 Energy Poverty Principles (ENPOV)		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR_Training_Module%201%20.pdf

59	POWERPOOR: Promotional and informational material		https://powerpoor.eu/sites/default/files/2021-12/POWERPOOR_Training_Module%201%20.pdf
60	POWERPOOR: Online trainer library		https://powerpoor.eu/sites/default/files/2021-05/POWERPOOR%20D3.1_ONLINE%20TRAINER%20LIBRARY_v1.0.pdf
61	POWERPOOR: Online materials		https://powerpoor.eu/sites/default/files/2021-05/D6.4%20POWERPOOR%20Online%20Materials%20-%20v1.0.pdf
62	POWERPOOR: Certification Scheme		https://powerpoor.eu/sites/default/files/2021-05/POWERPOOR%20D3.3%20Certification%20Scheme%20v1.0_0.pdf
63	POWERPOOR: Baseline Assessment Report		https://powerpoor.eu/sites/default/files/2021-12/D4.2_Baseline%20A_Report%20V1.0.pdf
64	POWERPOOR Website		https://powerpoor.eu/sites/default/files/2020-12/POWERPOOR%20D6.2%20POWERPOOR%20Website%20v1.0.pdf
65	Collective self-consumption and energy communities: Trends and challenges in the transposition of the EU framework	FUND	https://powerpoor.eu/sites/default/files/2022-07/Collective-self-consumption-and-energy-communities.-Trends-and-challenges-in-the-transposition-of-the-EU-framework.pdf
66	Guide to Home Energy Savings	ACT	https://powerpoor.eu/sites/default/files/2022-07/2020_Guide_to_Home_Energy_Savings_0.pdf
67	Преглед и анализ на националния жилищен сграден	ACT	https://bit.ly/3owQ9U4

	фонд в Република България. Обобщение		
68	Доклад от проведено проучване за съществуващите методи и практики за обучение на тема Енергийна бедност, идентифициране на целевите групи и анализ на резултатите от проведена анкета	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/IO1-Country-Specific-Report_Bulgaria_BG.pdf
69	Енергийната бедност в с светлината на местните избори. Аналитична обосновка	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy%20Poverty%20Analysis%20final-zg-cover.pdf
70	Overview report on the energy poverty concept	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/ComAct-D1.1_Overview-report-on-the-energy-poverty-concept_Final-version_UPDATED-1.pdf
71	The EnPover Municipalites toolkit of customized support schemes facilitating implementation of energy efficiency measures in vulnerable households	TARGET	https://powerpoor.eu/sites/default/files/2022-07/EnPover%20%C3%96nkorm%C3%A1nyzati%20Eszk%C3%B6zt%C3%A1r.pdf
72	Преглед и анализ на националния	ACT	https://bit.ly/3Bi1HlB

	жилищен сграден фонд в Република България. Обобщение		
73	Доклад от проведено проучване за съществуващите методи и практики за обучение на тема Енергийна бедност, идентифициране на целевите групи и анализ на резултатите от проведена анкета	TARGET ACT	https://powerpoor.eu/sites/default/files/2022-07/IO1-Country-Specific-Report_Bulgaria_BG.pdf
74	Енергийната бедност в с светлината на местните избори. Аналитична обосновка	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy%20Poverty%20Analysis%20final-zg-cover.pdf
75	Alleviating energy poverty in Europe: Front-runners and laggards	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0140988321004461-main.pdf
76	Energy poverty and income inequality: An economic analysis of 37 countries	PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0306261921013623-main.pdf
77	Climate action in Estonia: Latest state of play	ACT	https://powerpoor.eu/sites/default/files/2022-07/EPRS_BRI%282021%29690684_EN_0.pdf

78	Climate-neutral Tallinn: Tallinn Sustainable Energy and Climate Action Plan	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/tallinna_kliimakava_eng_01-09-21.pdf
79	ENGAGER: European Energy Poverty - Agenda Co-Creation and Knowledge Innovation	PLAN	https://powerpoor.eu/sites/default/files/2022-07/Engager-booklet.pdf
80	"Energy poverty takes toll on Balkan forests – EurActiv.com."	PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy%20poverty%20takes%20toll%20on%20Balkan%20forests%20%E2%80%93%20EURACTIV.com_.pdf
81	ENERGY POVERTY IN SOUTH-EAST EUROPE: COLD SURVIVAL	PLAN	https://powerpoor.eu/sites/default/files/2022-07/Brosura_Caritas.pdf
82	Trough knowledge to warm home - Guide	PLAN	https://powerpoor.eu/sites/default/files/2022-07/Kako-smanjiti-potro%C5%A1nju-energije-u-ku%C4%87anstvu.pdf
83	Trough knowledge to warm home	ACT	https://powerpoor.eu/sites/default/files/2022-07/letak_toplidom_v3.pdf
84	Recommendations for combating energy poverty in the City of Zagreb	ACT	https://powerpoor.eu/sites/default/files/2022-07/Preporuke-za-suzbijanje-en.-siromastva-Zagreb-rezultati-1.pdf
85	Is poverty really stagnating in Croatia?	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/di117_01sukur.pdf
86	Financing the implementation of	FUND	https://powerpoor.eu/sites/default/files/2022-07/Financiranje-provedbe-mjera-energetske-u%C4%8Dinkovitosti.pdf

	energy efficiency measures		
87	Analysis of the legislative framework in the field of energy and social welfare - from the perspective of energy poverty and energy efficiency	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/Analiza_zakonodavnog_okvira.pdf
88	Energy research report poverty in Petrinja	TARGET	https://powerpoor.eu/sites/default/files/2022-07/Energetsko-siroma%C5%A1tvo-u-Petrinji.pdf
89	Analysis of the energy situation in the Municipality of Dvor - with reference to energy-poor households	TARGET	https://powerpoor.eu/sites/default/files/2022-07/ANALIZA_DVOR.pdf
90	Evaluating homeowners' retrofit choices – Croatian case study	TARGET ACT	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0378778818310016-main.pdf
91	The economic impact of energy saving retrofits of residential and public buildings in Croatia	PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0301421516303445-main.pdf
92	Letting the Gini out of the fuel poverty bottle? Correlating cold homes and income inequality in	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S2214629619301021-main.pdf

	European Union countries		
93	Invisible energy poverty? Analysing housing costs in Central and Eastern Europe	TARGET	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S2214629620302450-main_0.pdf
94	Framing the context of energy poverty in Croatia: A case-study from Zagreb	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0301421520305851-main.pdf
95	A comprehensive review on heat accounting and cost allocation in residential buildings in EU	PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0378778819316883-main.pdf
96	Assessment of energy poverty in new EU Member States: The Case of Bulgaria, Croatia and Romania	TARGET	https://powerpoor.eu/sites/default/files/2022-07/root%2C%2BJournal%2Bmanager%2C%2B01_IJEEP%2B4003%2Blenz%2Bokay_20170210_V1.pdf
97	Energy poverty in Croatia: New insights	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/VlahinicGrgurev-Prague2016.docx
98	Energy Poverty in South East Europe: Surviving the Cold	PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy-Poverty-in-South-East-Europe_Surviving-the-Cold_0.pdf

99	Exploring health impacts of living in energy poverty: Case study Sisak-Moslavina County, Croatia	TARGET ACT	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0378778817338550-main.pdf
100	Energy poverty in Croatia - results of field work study from Sisak-Moslavina County	TARGET	https://powerpoor.eu/sites/default/files/2022-07/Energetsko-siromastvo-u-Hrvatskoj.pdf
101	Energy Poverty: Practical and Structural Solutions for South-East Europe	ACT	https://powerpoor.eu/sites/default/files/2022-07/SA2-19606229.pdf
102	Etxean energia aurrez dezakezu erosotasunik galdu gabe!	ACT	https://powerpoor.eu/sites/default/files/2022-07/Argitu%20gida%20euskaraz.pdf
103	Medidas de ahorro y eficiencia energética en el hogar	ACT	https://powerpoor.eu/sites/default/files/2022-07/Gu%C3%ADa-de-medidas-de-ahorro-y-eficiencia-energ%C3%A9tica-en-el-hogar.pdf
104	AZEB - Best Practices Manual for Users	ACT	https://powerpoor.eu/sites/default/files/2022-07/AZEB-Best-Practices-Manual-for-Users.pdf
105	Integration of renewable energies in NZEBs	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/D1.4_RE-in-ZEBs-revised_final.pdf
106	"MISBEHAVIOUR MINI - GUIDE" TO IMPROVE SOCIAL HOUSING INSTALLATIONS.	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/Attachment_0.pdf

107	Fighting against fuel poverty by collaborating with social services through energy advice: An innovative case study from Spain	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/22228-86840-1-PB.pdf
108	Crowdfunding platforms for renewable energy investments: an overview of best practices in the EU	FUND	https://powerpoor.eu/sites/default/files/2022-07/Crowdfundingplatformsforrenewableenergyinvestments-wdb.pdf
109	Guidelines for RES project developers interested in financing their projects through crowdfunding	FUND	https://powerpoor.eu/sites/default/files/2022-07/D4.7-CrowdFundRES_Draft_Guidelines_Developers_final.pdf
110	Fighting Energy Poverty Using User-Driven Approaches in Mountainous Greece: Lessons Learnt from a Living Lab	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/energies-14-01525-v2.pdf
111	Community-Energy-Guide-Factsheet	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/Community-Energy-Guide-Factsheet-GK.pdf
112	Planning of a Smart Local Energy Community: The Case of	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/Planning_of_a_Smart_Local_Energy_Community_The_Cas.pdf

	Berchidda Municipality (Italy)		
113	Crowdfunding for Renewable Energy: Survey Results on Public Perceptions and the Views of Crowdfunding Platforms and Project Developers	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/CFRES-Survey-joined_May2016.pdf
114	Targa maja elaniku käsiraamat	ACT	https://powerpoor.eu/sites/default/files/2022-07/Targa-maja-elaniku-kasiraamat.pdf
115	COMMISSION RECOMMENDATION (EU) 2020/1563 of 14 October 2020 on energy poverty	TARGET	https://powerpoor.eu/sites/default/files/2022-07/CELEX_32020H1563_EN_TXT.pdf
116	Energy poverty indicators: A systematic literature review and comprehensive analysis of integrity.	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S2210670721000500-main.pdf
117	Evaluating the effect of economic crisis on energy poverty in Europe	TARGET	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S1364032121002732-main.pdf
118	Tackling energy poverty through national energy and climate plans:	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy-poverty-report-Final_December-2020.pdf

	priority or empty promise?		
119	Confronting Energy Poverty in Europe: A Research and Policy Agenda	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/energies-14-00858.pdf
120	The right to energy in the EU in times of pandemic	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/The-right-to-energy-in-the-EU-in-times-of-pandemic_V3.pdf
121	Report on gender aspects of existing financial schemes for energy poverty measures	PLAN	https://powerpoor.eu/sites/default/files/2022-07/D1.4-Report-Gender-Financial-Schemes-Final-for-Web.pdf
122	Targeting energy efficiency renovation to improve housing conditions of the most vulnerable -avoiding social risks and ensuring the benefits	ACT FUND	https://powerpoor.eu/sites/default/files/2022-07/Targeting_Energy_Efficiency_Renovation_Report.pdf
123	Fighting energy poverty through innovation; The challenges	FUND	https://powerpoor.eu/sites/default/files/2022-07/Fighting-Energy-Poverty-Through-Innovation_-The-Challenges.pdf
124	How cities can back renewable energy communities; Guidelines for local and regional policy makers	ACT FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/EnergyCities_RNP_Guidebook_Web.pdf

125	Invisible energy poverty? Analysing housing costs in Central and Eastern Europe	TARGET	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S2214629620302450-main.pdf
126	Social housing, energy management and combating energy poverty in France (Paris, Hauts de France, Nancy) and in Europe (Great Britain, Germany, Spain)	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/Housing_EnergyEN.pdf
127	European barriers in retail energy markets	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/MJ0321085ENN.en_.pdf
128	Alleviating fuel poverty: the role of the energy café	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/Energy-cafes-policy-brief-web.pdf
129	Energy poverty and vulnerable consumers in the energy sector across the EU: analysis of policies and measures	TARGET PLAN	https://powerpoor.eu/sites/default/files/2022-07/INSIGHT_E_Energy%20Poverty%20-%20Main%20Report_FINAL.pdf
130	People's decisions matter: understanding and addressing Energy Poverty with Behavioral Economics	TARGET ACT	https://powerpoor.eu/sites/default/files/2022-07/1-s2.0-S0378778819305675-main.pdf
131	Energy communities: a way to bring all	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/ECs-a-way-to-bring-all-europeans-along-in-the-energy-transition.pdf

	Europeans along in the energy transition		
132	NΟΜΟΣ ΥΠ' ΑΡΙΘΜ. 4513 ΦΕΚ Α' 9/23.01.2018	FUND	https://powerpoor.eu/sites/default/files/2022-07/fek_a_9_2018.pdf
133	Το θεσμικό πλαίσιο της Κοινωνικής Αλληλέγγυας Οικονομίας στην Ελλάδα	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/allhleggya_oikonomia_lr.pdf
134	Investigating EU financial instruments to tackle energy poverty in households: A SWOT analysis, Energy Sources, Part B: Economics, Planning, and Policy	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/15567249.2019.pdf
135	Good practices aiming to end energy poverty	ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/QA0117038ENN.en_.pdf
136	Handbook on citizen RES business models	FUND	https://powerpoor.eu/sites/default/files/2022-07/D2.2_Handbook%20on%20citizen%20RES%20business%20models.pdf
137	Guidelines for renewables project developers seeking crowdfunding finance.	FUND	https://powerpoor.eu/sites/default/files/2022-07/D4.7-CrowdFundRES_Guidelines_Developers_Final.pdf

138	Guidelines for Investors in Clean Energy Projects via Crowdfunding	FUND	https://powerpoor.eu/sites/default/files/2022-07/D4.7.1-CrowdFundRES_Guidelines_Investors_Final.pdf
139	CROWDFUNDING RENEWABLE ENERGY - A practical guide for Crowdfunding Platforms, Project Developers, Investors and Policy Makers	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/Crowdfunding-Renewable-Energy_protected.pdf
140	Il manuale del crowdfunding di Produzioni dal Basso	FUND	https://powerpoor.eu/sites/default/files/2022-07/pdb_comefunziona.pdf
141	Renovation of ventilation in apartment buildings – Estonian experience	ACT	https://powerpoor.eu/sites/default/files/2022-07/Renovation%20of%20ventilation%20in%20apartment%20buildings%20%E2%80%93%20Estonian%20experience.pdf
142	Retrofit cost-effectiveness: Estonian apartment buildings	ACT FUND	https://powerpoor.eu/sites/default/files/2022-07/Retrofit%20cost%20effectiveness%20Estonian%20apartment%20buildings.pdf
143	Energy Poverty in Europe - How Energy Efficiency and Renewables Can Help?	TARGET ACT FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/CEB_Study_Energy_Poverty_in_Europe.pdf
144	Estonia profile	TARGET ACT PLAN	https://powerpoor.eu/sites/default/files/2022-07/estonia-country-profile-english.pdf

145	THE HANDBOOK FOR SOCIALLY- INCLUSIVE WIND ENERGY	FUND PLAN	https://powerpoor.eu/sites/default/files/2022-07/WinWind_Handbook-2020-www-2.pdf
146	Bürgerenergie, Heute und Morgen		https://powerpoor.eu/sites/default/files/2022-07/Broschuere_Buergerenergie17_96dpi.pdf
147	Energy poverty in Greece 2.0; Policy developments and social innovation: proposals for combatting it	PLAN	https://powerpoor.eu/sites/default/files/2022-07/POVERTY-2EN-FIN-LOW_0.pdf
148	Éves jelentés a lakhatási szegénységről 2020 // Annual report on housing poverty in Hungary 2020		https://powerpoor.eu/sites/default/files/2022-07/hfhh_lakhatasi_jelentes_2020.pdf
149	Energy Poverty Handbook		https://powerpoor.eu/sites/default/files/2022-07/QA0616183ENN.en_.pdf
150	Innovative Financing Schemes - Lessons learnt from the Covenant of Mayors Community		https://powerpoor.eu/sites/default/files/2022-07/Innovative%20Financing%20Schemes%20-%20EUCoM.pdf
151	Fighting energy poverty through innovation - Challenges, opportunities and solutions	FUND	https://powerpoor.eu/sites/default/files/2022-07/Fighting-Energy-Poverty-through-Innovation_May-2021-1.pdf

152	Mapping the social impact of energy communities	FUND	https://powerpoor.eu/sites/default/files/2022-07/4pager-report_0.pdf
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