

D 2.7 Capacity-building programme materials



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Decarbonization: The role of cities"			



1. Overview and objectives

The Porto Energy ElevatoR project (PEER) is committed to address the challenges of energy poverty by supporting local authorities and citizens in the implementation of a comprehensive building renovation program. Its primary objective is to improve energy efficiency in buildings and promote the development of self-consuming renewable energy communities.

To achieve the project goals, a dedicated stakeholders engagement strategy was implemented – targeting municipalities, social housing management entities, private institutions, as well as households – and a tailored capacity-building program was designed to support local authorities as well as citizens overcoming knowledge barriers and act.

As a follow-up of *Deliverable 2.6 – Capacity-building programme plan*, this document aims to present the materials used for supporting the capacity-building programme. These materials were developed according to the targeted public and the objectives of the program.

Capacity-building training materials

Depending on the goal intended to be met, the materials need to be customised to fulfil their main function: to transmit the right information in a clear and unequivocal way. As discussed in D2.6, the PEER capacity-building program was structured into two main goals: 1. to engage stakeholders and foster action, and 2. to promote the replication of PEER. Thus, in this document, the same structure is adopted to improve readability and present the different materials.



2.1. Goal 1: To engage stakeholders and foster action

2.1.1. Engagement step

In order to present the project to local authorities and housing associations, an overall presentation of the project explaining its framework and purpose was developed in the first months of the project (Appendix 1). In addition to a general overview of the project, this presentation was mainly intended to stimulate these entities to collaborate with the project team. It exposed how such entities could benefit from PEER (from a holistic perspective) and what kind of participation the project would need from them, namely in gathering information to characterise the population in risk of suffering from energy poverty and listing the building renovation projects – in social housing neighbourhoods – in their pipeline. This presentation was delivered together with a two-page abstract which helps to further frame the project and its goals (Appendix 2).

Later, to detail the support PEER could provide to entities, a more thorough presentation (Appendix 3) and a dedicated one-pager (Appendix 4) were developed. These documents followed a pitch deck approach and were designed to present to potential stakeholders the project products and services and growth traction. They were presented in July 2022, in the monthly general meeting of the Porto Metropolitan Area group, which joins the representatives of the 17 municipalities. This presentation was also used to introduce the project to several other entities, namely to the Advisory Board.

At the same time as these materials were produced and meetings with stakeholders were held, the project website was being developed. To further clarify the support provided to local authorities and housing management entities, the institutional section was created.



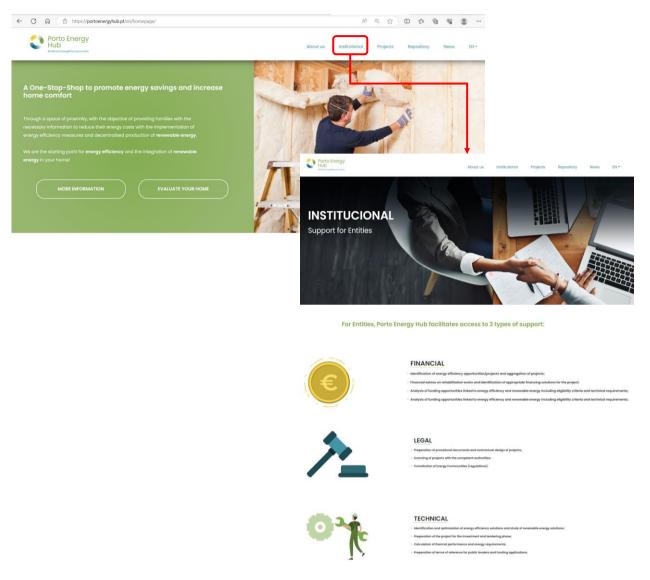


Figure 1 - Porto Energy Hub website.

Besides the engagement of local stakeholders, the presentation of PEER at the national level was also a relevant activity agreed by the consortium as it could both leverage the replication of the project and trigger the interest of other local authorities. In this setting and as described in D2.6, the project was presented in the session "Energy efficiency in buildings: The key to fight energy poverty" held during TEKTÓNICA – Feira Internacional da Construção. The presentation made during this session aimed to describe the framework of the project as well as to clearly discuss how it could contribute to mitigate energy poverty in cities. As the session was targeted to building



experts, the presentation focused on the relevance of the energy efficiency of buildings in the mitigation of energy poverty (Appendix 5).

PEER was also presented in a joint webinar organised by AdEPorto, <u>INEGI</u> and <u>INESC TEC</u> in the scope of the role of cities in the development of decarbonization policy making. In this session, the focus was to describe how the energy hubs (One-stop-shops) implemented by PEER were helping citizens in the implementation of energy efficiency measures to assess it contribute to cities' decarbonization goals (Appendix 6). Thus, some results of the Energy Hubs were presented and discussed with local authorities, university students, citizens, research institutions and energy agencies attending the session. A quite similar presentation was made during the EUROPA project session in which the experiences of three distinct OSS emerging in Portugal were presented and discussed (Appendix 7). Contrarily to the previous one, this presentation discussed the implementation of the Energy Hubs in detail and explained the service and the support provided step-by-step. This presentation is usually presented to other cities aiming to replicate the project outcomes.

2.1.2. Capacity step

For local authorities and housing management entities

As referred in D2.6, a formal in-person capacity building session was carried out in December 2022 to the technical staff of Domus Social E. M., the social building managing entity of the municipality of Porto. Considering the nature of this company, the capacity session focused on buildings, namely on their influence on energy poverty, on the national and European regulatory framework on buildings' energy performance, on the passive and active measures which can be implemented to improve the energy efficiency and thermal comfort of occupants, and on the existing funding programs and their technical requirements (Fig. 2). The session lasted 4 hours and involved a more practical component, presented in the final period, through exercises aiming to consolidate the knowledge transfered during the session (Appendix 8).





Figure 2 - Overview of the capacity building session on buildings.

Although not in a formal session, parts of this presentation were also discussed with other housing management entities and municipal technical staff, especially the contents on the 1° Direito Program (Fig. 3). 1° Direito is a funding opportunity which brings new demanding technical requirements and boosts renewable energy production since local authorities realised the potential of local energy production on social housing developments (Fig. 4).



Figure 3 – Materials on the 1º Direito Program.

for all.



Figure 4 - Materials on renewable energy communities.

For citizens

For citizens, besides the webinar being organised on the existing funding opportunities, several materials were developed and disseminated both through the project website and the social media. These materials focused on both energy efficiency and renewable energy production. These are made available in the Repository website section.

On energy efficiency, two types of materials were produced: daily and easy-to-implement energy efficiency tips (Fig. 5) and a more complete guidebook on residential energy efficiency (Fig. 6). The first material is provided in printed formats when citizens consult the Energy Hubs services and aims to be a practical and informative handguide on energy efficiency measures on typical energy uses (lighting, water heating, space heating and cooling, etc.). In turn, the second only exists digitally in the project website and intends to be a more comprehensive guidebook on energy efficiency on the residential sector. It includes statistics, best practices, examples of implementation, among others which help people realise the potential of implementing measures.

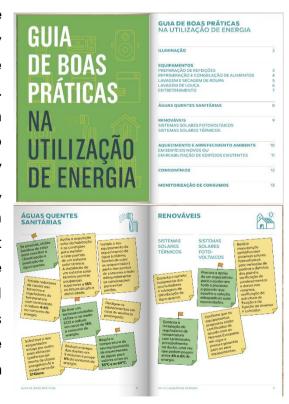


Figure 5 - Tips on energy efficiency (Guia de Boas Práticas no Uso de Energia (anyflip.com)).



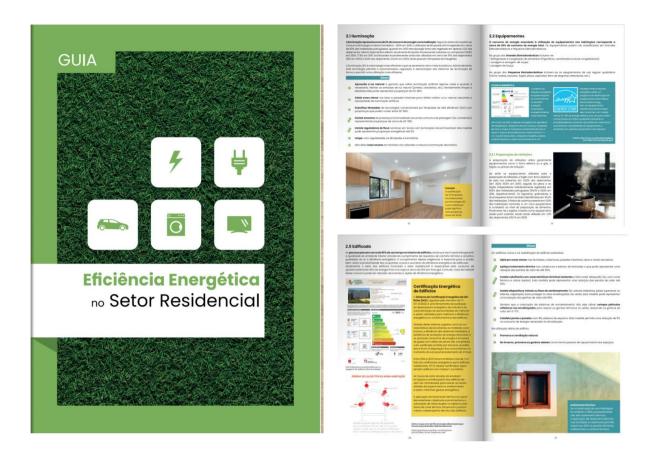


Figure 6 - Guidebook on energy efficiency.

Also, as renewable energy communities are taking the first steps in Portugal and a lot of uncertainty persists on this topic, a comprehensive step-to-step guidebook on energy communities was developed (Fig. 7). The goal of this manual is to guide citizens throughout the process of creating a new renewable energy community and transform a complex process into a more friendly one. This material is available in the website repository.





Figure 7 - Guidebook on renewable energy communities.

2.2. Goal 2: To replicate PEH

Cities that have contacted PEER mainly intend to replicate the implementation of Energy Hubs to provide their citizens with this service. Thus, the presentation in Appendix 7 has been used for this purpose since it provides an overview of the project objectives and explains the service and the support provided step by step.



3. Conclusion

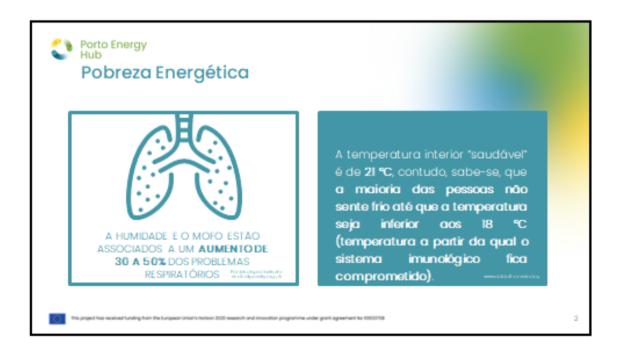
This document presents the training and educational materials developed to support the PEER capacity building programme. The programme aims to raise capacity in key stakeholders, especially local authorities, and citizens, while promoting the project replicability. Most of these materials are made available in the project's website to expand stakeholders' knowledge on these topics and are periodically reviewed to ensure the contents are up to date. Also, both formal and informal capacity sessions are scheduled when adequate to discuss more technical contents.

Special care is put on the developed materials since the main goal of the developed sessions and printed documents is to inform and raise knowledge in a clear and intelligible way to a comprehensive range of stakeholders with different literacy levels. Therefore, all the developed materials try to be simultaneously informative, without being too technical, and visually attractive to motivate the target audience.

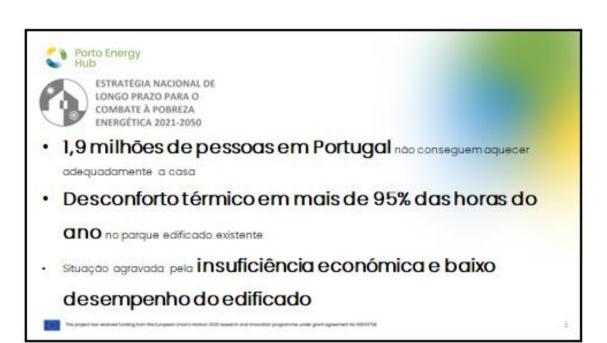


Appendix 1. Stakeholders' engagement presentation – Participation and data gathering

















- Suporte técnico, modelos de financiamento e apoio legal
- Eficiência Energética para melhorar as condições da habitação
- Energia renovável como complemento da eficiência energêtica

Promoção de investimentos na **reabilitação de edificios** e **energia renovável** com foco no **combate à pobreza energética**.















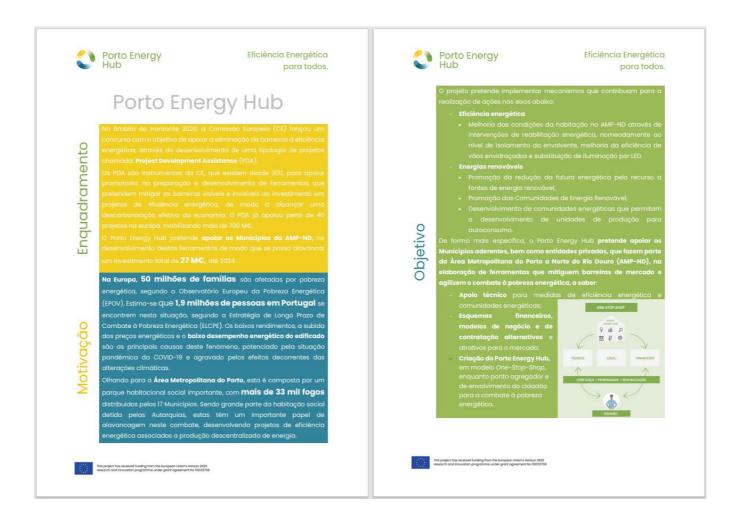






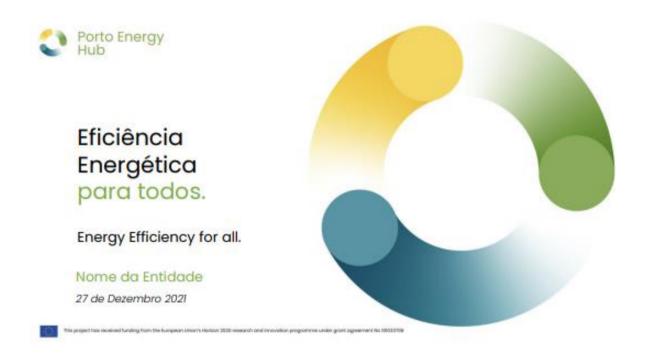


Appendix 2. PEER abstract





Appendix 3. PEER pitch deck presentation









O que é o Porto Energy Hub?

O Parto Energy Hub (PEH) apoia gratuitamente projetos de eficiência energética e energias renováveis para mitigar a pobreza energética e a melhoria das condições de habitabilidade, através de:



Eficiência energético

Melhoria das condições da habitação através de intervenções de reabilitação energética.

Energias renováveis

Desenvolvimento de unidades de autoconsumo e comunidades de energia renovável.

O

this project has received funding from the European Lincors Harbon 2000 research and innovative programme under grant agreement to 600000186



Quem pretendemos envolver?



Entidades gestoras de habitação



Municípios e entidades de habitação social



Cooperativas de habitação



Cidadão



this project has received hunding from the surspean Limons Harlison 2000 research and binovation programme under grant agreement to 80000000.





Tipologia de apoios para entidades

TÉCNICO

- Identificação e otimização de soluções de eficiência energética e estudo de soluções de energia renovável;
- Preparação do projeto para a fase de investimento e concurso;
- Cálculo de desempenho térmico e necessidades de energia;
- Preparação de termos de referência para concursos públicos e candidaturas a financiamento.



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This project has received funding train, the European Union's Harbon 2000 research and innovation programme under grant agreement to 1000070



Tipologia de apoios para entidades

FINANCEIRO

- Identificação de oportunidades/projetos de eficiência energética e agregação de projetos;
- Aconselhamento financeiro sobre obras de reabilitação e identificação de soluções de financiamento adequadas ao projeto;
- Análise de oportunidades de financiamento ligadas a eficiência energética e energia renovável incluindo critérios de elegibilidade e requisitos técnicos;
- Elaboração de candidaturas para programas de financiamento.





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Tipologias de apoio para entidades

LEGAL

- Elaboração das peças de procedimento e conceção contratual de projetos;
- Licenciamento de projetos juntos das entidades competentes;
- Constituição de Comunidades de Energia (regulamentos).



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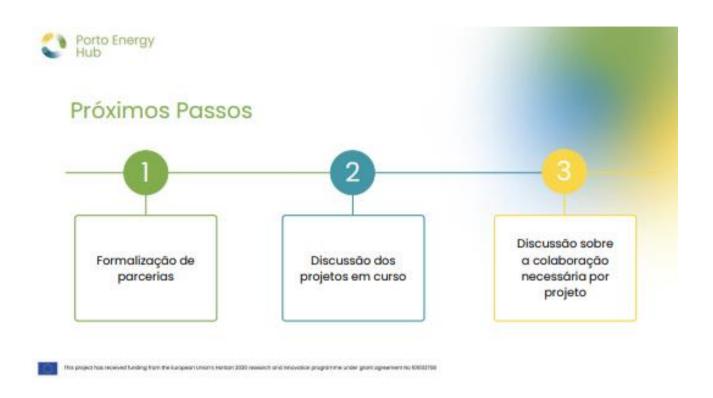
Solução para o Cidadão



His project his received harding from the Surspean Chian's Harbon 2020 research and innovative programme under grant agreement to literat this

- Sensibilização, formação e partilha de conhecimento;
- Envolvimento do cidadão para a melhoria do conforto térmico;
- Monitorização de impacto.









Appendix 4. PEER pitch deck one-pager



Eficiência Energética para todos.

Tipologia de apoios para Entidades

TÉCNICO

- Identificação e otimização de soluções de eficiência energética e estudo de soluções de energia renovável,
- Preparação do projeto para a fase de investimento e concurso; Cálculo de desempenho térmico e necessidades de energia;
- Preparação de termos de referência para concursos públicos e condidaturas a financiamento.

FINANCEIRO

- Identificação de oportunidades/projetos de eficiência energética e
- Aconselhamento financeiro sobre obras de reabilitação e identificação de soluções de financiamento adequadas ao projet-
- Analise de oportunidades de financiamento ligadas a eficiência energética e energia renovável incluindo **critérios de elegibilidade**

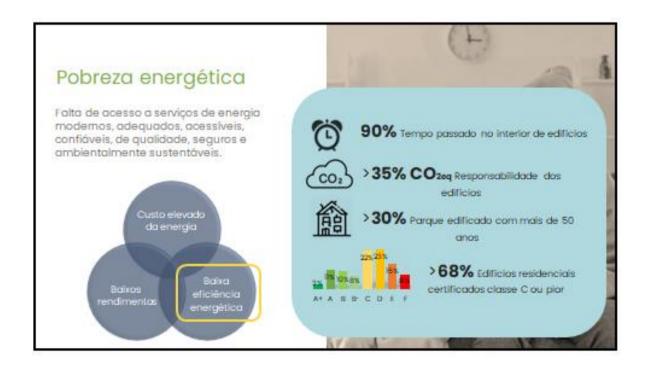
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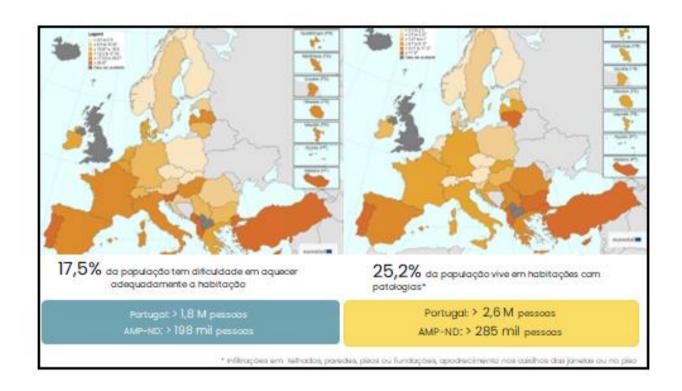


Appendix 5. Presentation in TEKTÓNIKA





















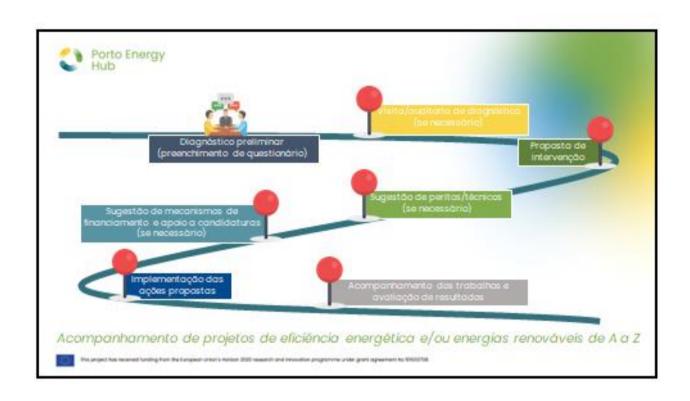
















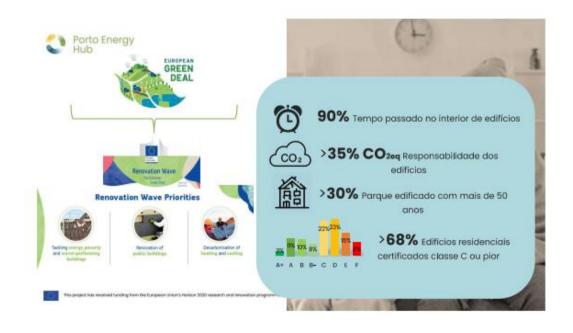






Appendix 6. PEER presentation in the webinar "Strategies and Policies for Decarbonization: The role of cities"

















Porto Energy Hub

Projeto Europeu, financiado pelo H2020, cuja ambição é apoiar os cidadãos a melhorar o conforto térmico nas suas casas e mitigar a pobreza energética no território.

Início: 1 de junho de 2021 | Duração: 3 anos

-

this project has received funding from the European Union's Hericon 2000 research and tenonolism programme under grant agreement by 1000575.



O Balcão Único do Porto Energy Hub

Ponto único de contacto para:

- Envolvimento proativo do cidadão e instituições
- Agregação e partilha de conhecimento
- Aconselhamento técnico, financeiro e legal
- Ações de sensibilização e formação
- Monitorização do impacto das medidas



Apoio técnico, modelos de financiamento e apoio leaal

Eficiência energética para melhoria das condições da habitação

> Energia renovável como complemento da eficiência energética

This project has received funding from the burgoois Union's Horizon 2000 research one innovation programme under grant agreement No. 500037.











Acompanhamento de projetos de eficiência energética e/ou energias renováveis de A a Z

This project has received funding from the buspacer criticals Harton 2000 research and tenderative programme under grant agreement to 0000008

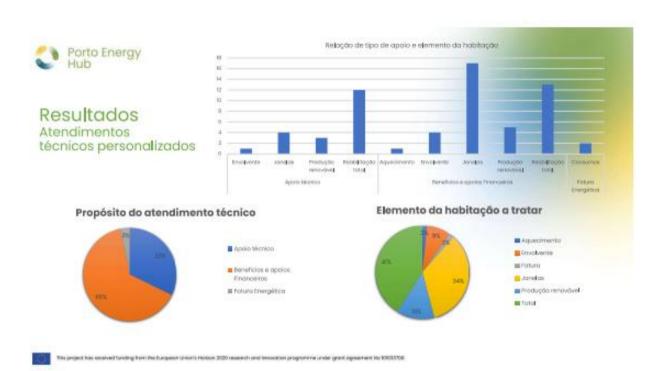
















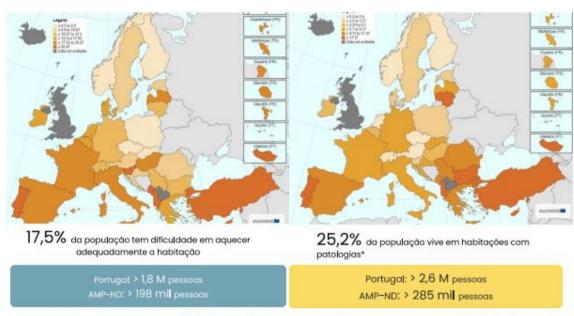






Appendix 7. PEER presentation in the EUROPA project workshop





* Infiltrações em telhados, paredes, pisos ou fundações, apadrecimento nos caixilhos das janelos ou no piso













Como pretendemos apoiar?



Apoio técnico, modelos de financiamento e apoio legal

Eficiência energética para melhoria das condições da habitação

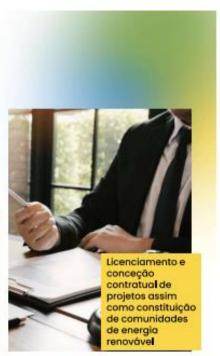
> Energia renovável como complemento da eficiência energética



Como pretendemos apoiar?













This project has received funding than the European Unions Horison 2000 research and Innovation programme under grant agreement to 100032108

Acompanhamento de projetos de eficiência energética e/ou energias renováveis de A a Z





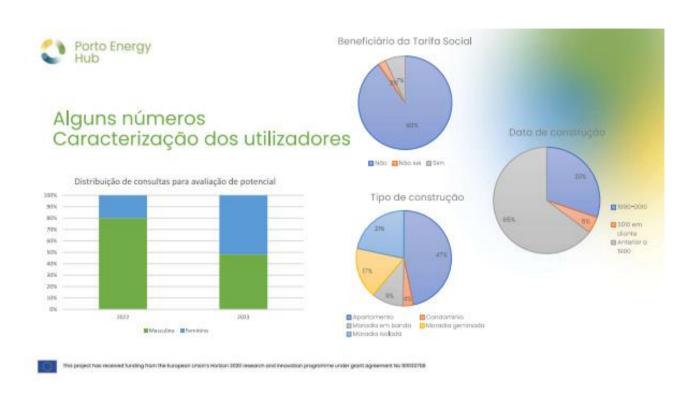


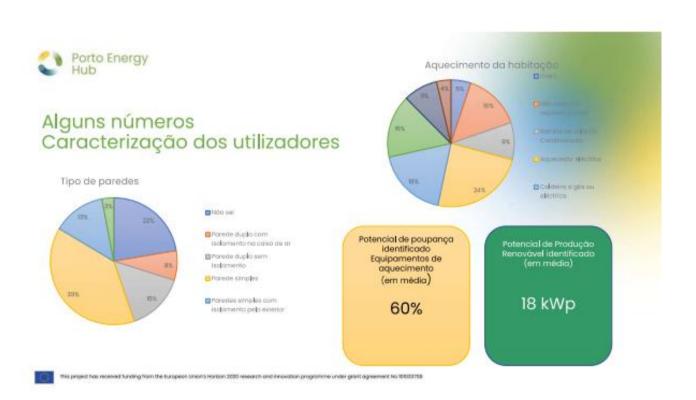




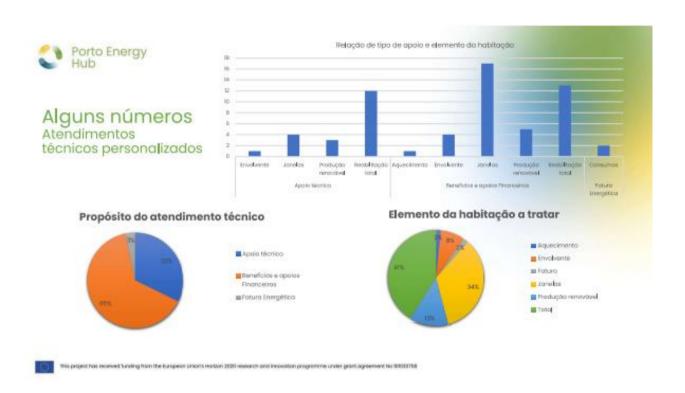
















Apoio a municípios



APOIO TÉCNICO

- Identificação e otimização de soluções de eficiência energética e estudo de soluções de energia renovável;
- Cálculo de desempenho térmico e necessidades de energia;
- Preparação de termos de referência para concursos públicos e candidaturas a financiamento.

APOIO FINANCEIRO

- Aconselhamento financeiro sobre obras de reabilitação e identificação de soluções de financiamento adequadas ao projeto;
- Apoio na elaboração de candidaturas para programas de financiamento.

ACONSELHAMENTO LEGA

- Elaboração das peças de procedimento e conceção contratual de projetos;
- Licenciamento de projetos juntos das entidades competentes;
- Constituição de Comunidades de Energia (regulamentos).

This project has received funding from the European Union's Harbon 2000 research and innovation programme under grant agreement to 10003708



Apoio a municípios





ELABORAÇÃO DE RELATÓRIOS DE OTIMIZAÇÃO DE SOLUÇÕES DE EFICIÊNCIA ENERGÉTICA



DESENVOLVIMENTO DE PROJETOS DE EXECUÇÃO PARA PRODUÇÃO FOTOVOLTAICA

This project has exceived funding from the European Union's Harbon 2000 research and innovation programme under grant agreement No 10003708











Appendix 8. Capacity building contents on buildings





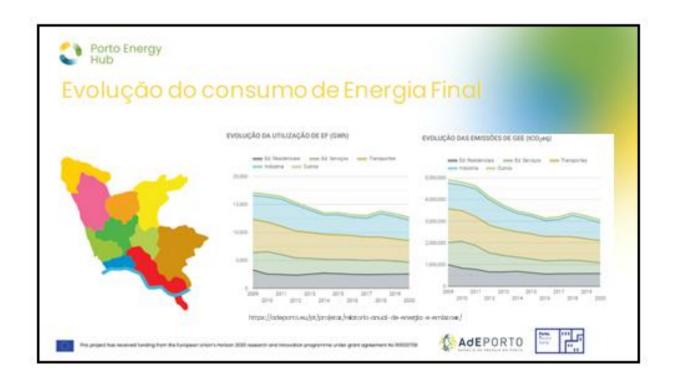




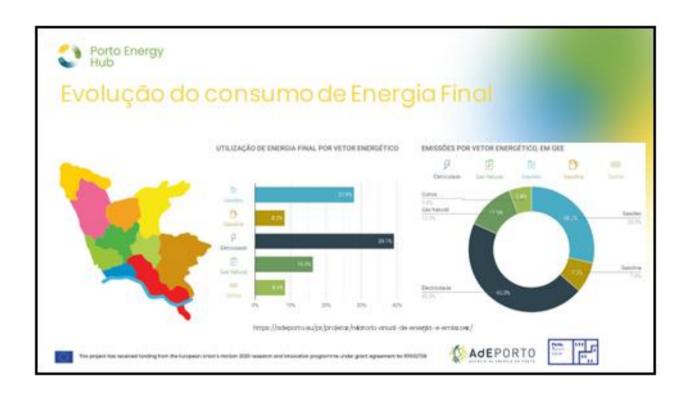






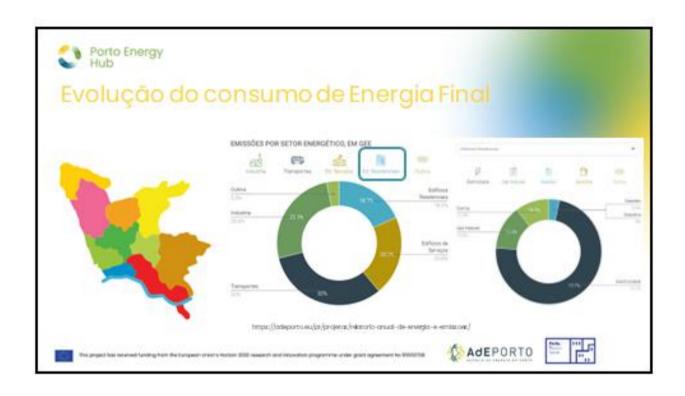








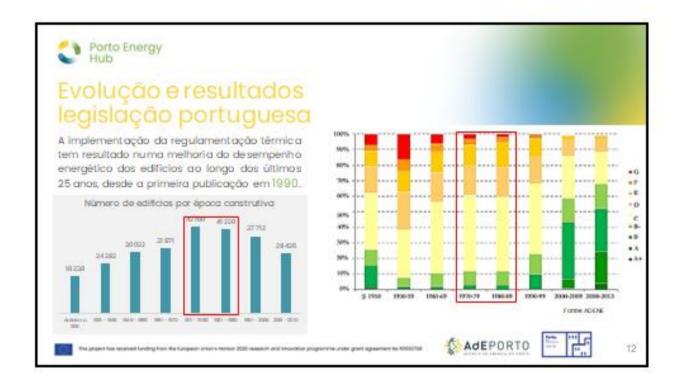




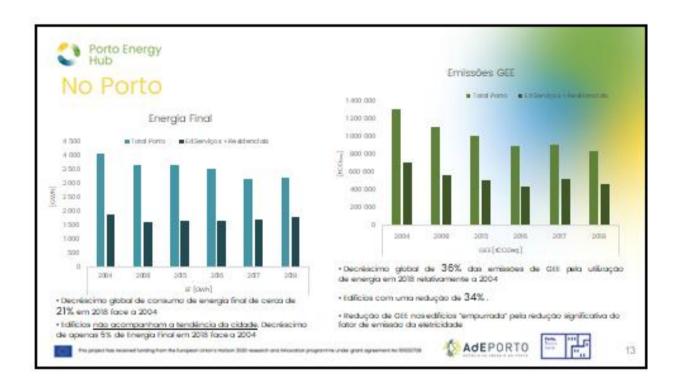


















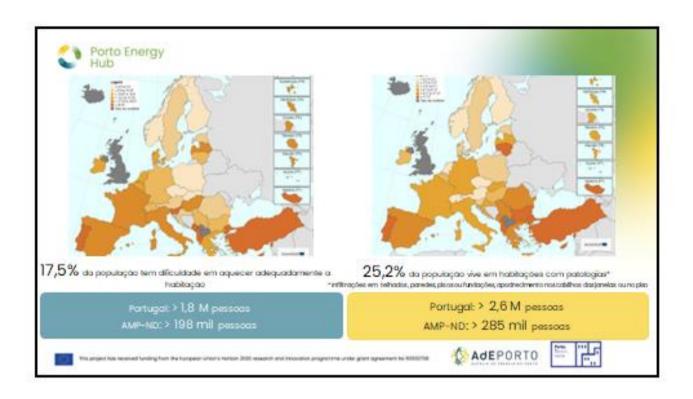
























































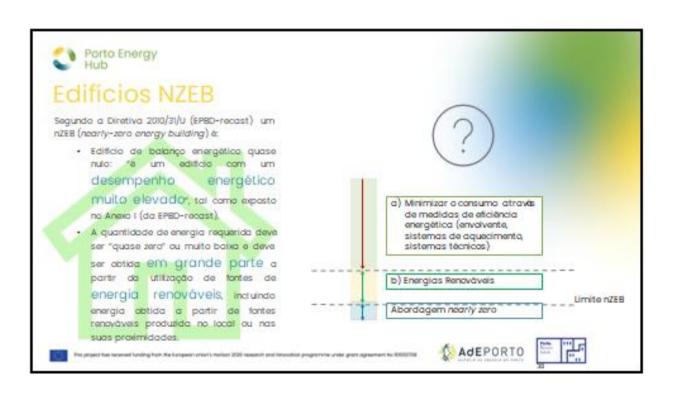










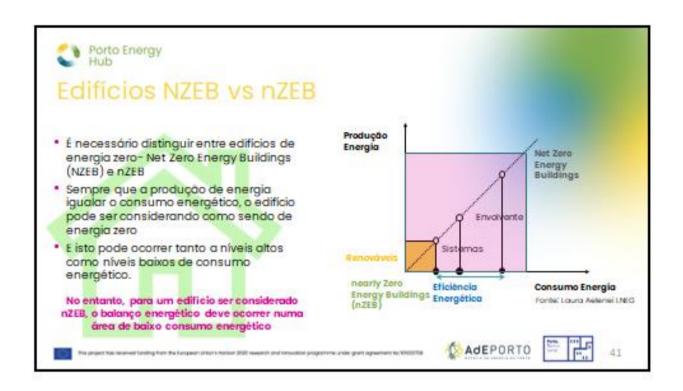




















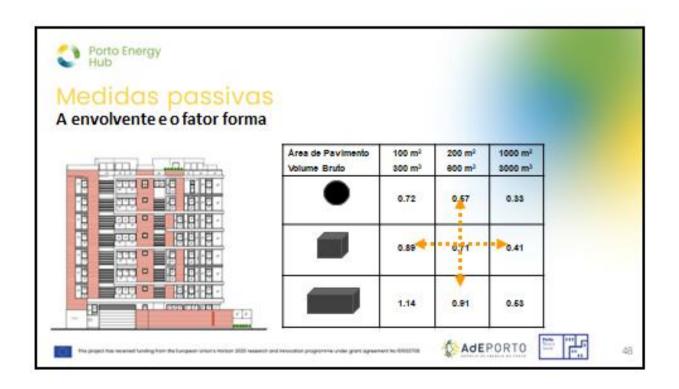






















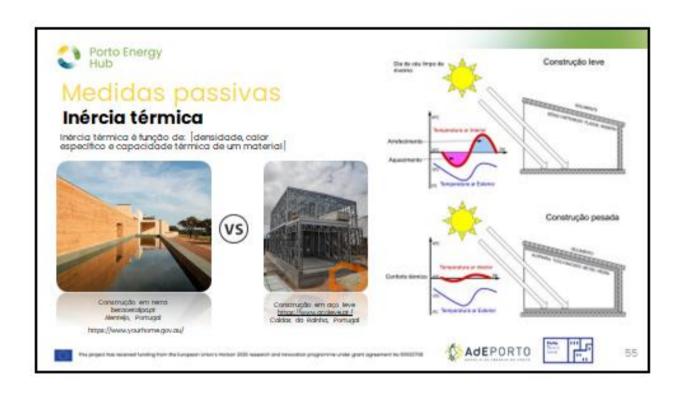


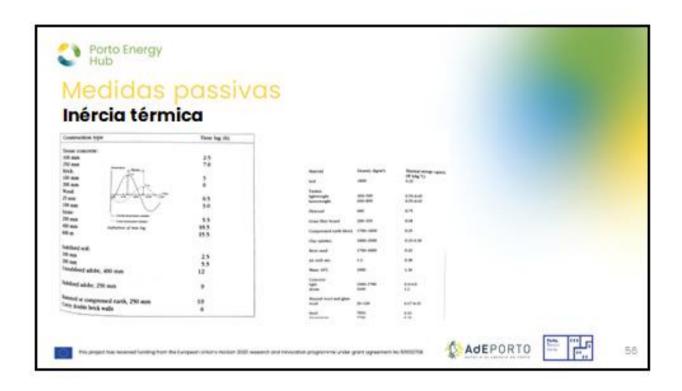


























































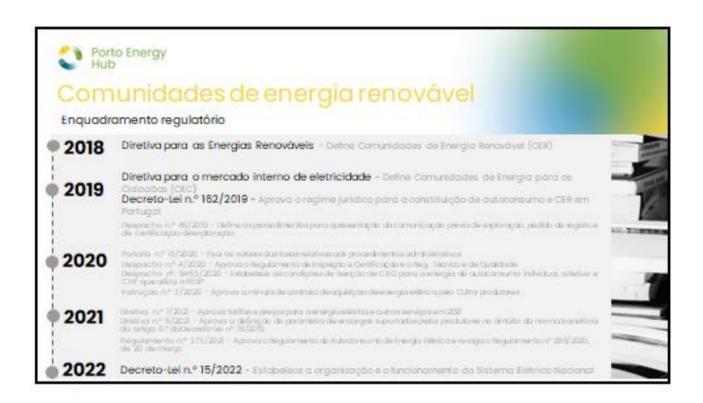






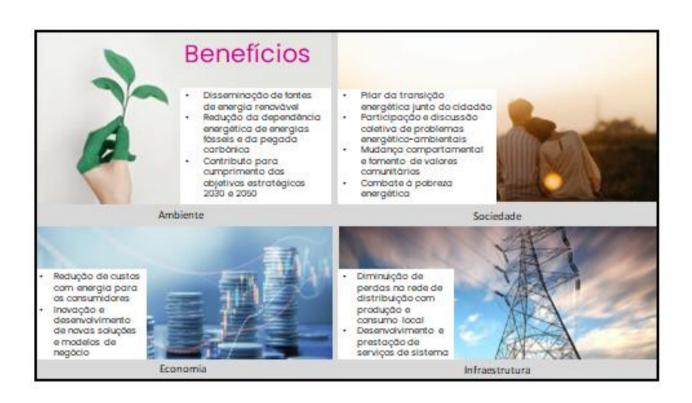














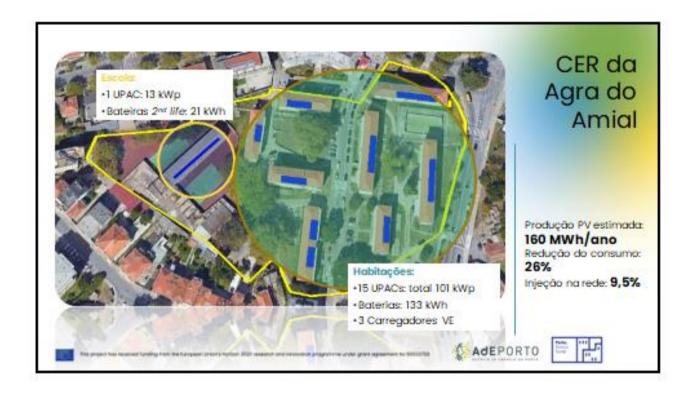






















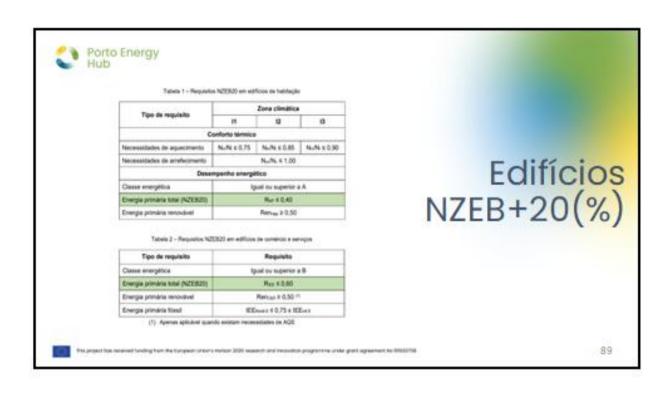
































Energy Efficiency for all.