



HOME RENOVATION ROADMAPS TO ADDRESS
ENERGY POVERTY IN VULNERABLE RURAL
DISTRICTS

Economic benefit for citizens



Co-funded by the European Union under project ID101077272. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



List of Arguments



**Energy
Audit**



**Economic
Benefit**



**Demystifying
Myths**



What is an Energy Audit





What is an Energy Audit

The **Energy Audit** consists of a detailed analysis of the building in its complexity. The appointed technician, collects data and draws up a final report that assesses all the potential interventions to be carried out in order to achieve an economically and energetically sustainable investment. It consists of 5 steps

01

Acquisition of information - retrieval of existing floor plans, data on building-plant characteristics and heating consumption for at least three operating seasons;

02

Measuring the characteristics of the **building envelope** (external walls, roof, ground floor) - dimensions, estimation of stratigraphy and possible instrumental verification;



What is an Energy Audit

03

Mapping of the characteristics of the **system** - diagrams and characteristics of all the components of the heating system;

04

Assessment of the energy performance of the building-plant system;

05

Elaboration of proposals for intervention to reduce energy requirements, estimation of the costs of the proposed interventions and analysis of the payback time of the investment.



Economic benefit for citizens





Economic benefit for citizens



Reducing energy costs:

Energy upgrading allows buildings to become more energy efficient, reducing gas and electricity consumption. This results in lower energy bills for residents, leading to significant long-term savings.



Increased property value:

Buildings with higher energy efficiency tend to have a higher market value. Energy upgrading can therefore increase the value of real estate, offering owners the opportunity to get a return on their investment when selling or renting.



Economic benefit for citizens



Local economic growth:

Energy rehabilitation projects generate jobs for a variety of industries, including construction professionals, energy system installers, insulation manufacturers and more. This contributes to local economic growth and the creation of new jobs.

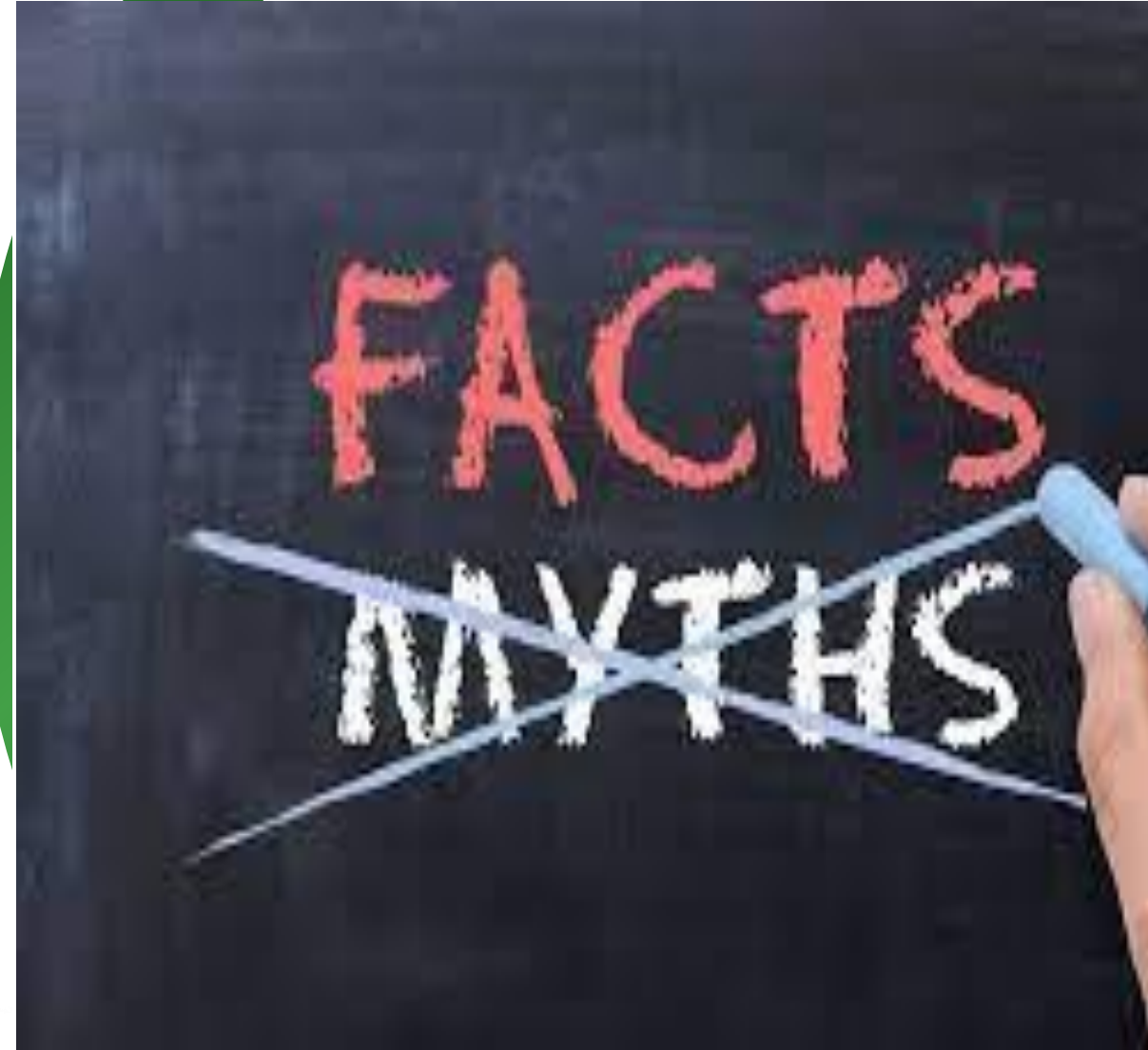


Tax incentives and subsidised financing:

In many jurisdictions, governments offer tax incentives and subsidised financing to encourage energy retrofiting. These incentives can reduce the overall costs of the project, making it more affordable for citizens.



Demystifying Myths





Demystifying Myths



High initial costs:

A common myth is that energy refurbishment involves prohibitive initial costs. In reality, while there may be initial investment, it often pays for itself over time through energy savings and long-term financial benefits.



Complexity of procedures:

Some people believe that the energy upgrading process is overly complex and time-consuming. In reality, many procedures can be relatively simple, especially with the support of qualified professionals.



Demystifying Myths



Lack of comfort:

Some people fear that increased energy efficiency will compromise comfort inside buildings. However, with modern technology and appropriate design, it is possible to improve energy efficiency without sacrificing comfort.



Low positive environmental impact:

Some may doubt the real effectiveness of energy upgrades in reducing environmental impact. However, energy improvements can contribute significantly to the reduction of greenhouse gas emissions and the sustainable use of energy resources.



Demystifying Myths



Rapid technological obsolescence:

There is concern that technologies used in retrofitting may become obsolete quickly, rendering investments obsolete. However, the energy efficiency sector is constantly evolving, and new technologies can often be integrated or improved without having to start from scratch.



Return on investment too long:

Some people may worry that the time it takes to get a return on investment from energy refurbishment is too long. However, the energy savings and long-term financial benefits can make the investment worthwhile over time.



Demystifying Myths



Lack of incentives:

Some may believe that there are not enough incentives or financial facilities for energy upgrading. In reality, many jurisdictions offer tax incentives, subsidies and soft loans to promote such projects.



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Thank you for your attention

