



Rijksdienst voor Ondernemend
Nederland

Energy poverty and Health

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Let me take you along





Objective

- › Find out whether there are health benefits to be gotten when alleviating energy poverty through energy renovation of dwellings





Why

- › Health is an important trigger
- › Benefit = financial contribution
- › A new perspective on pay back time
- › Integral approach
- › Priorities





How

1st Expert Study Group
Finding related reports(>50)
 research reports
 project reports
 programs

Summarising

Categorising

Writing the report

Making the infographic



Results

Why energy efficiency is such a smart way to improve people's health, alleviate energy poverty and save money

Scientific intervention studies repeatedly show that renovating houses can lead to:



IMPROVED WELL-BEING



LOWER MORTALITY



REDUCED USE OF HEALTHCARE RESOURCES



REDUCED VOLUME OF PRESCRIBED DRUGS

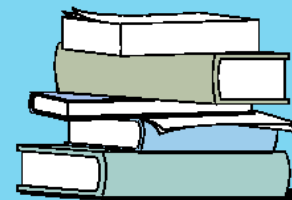
By realizing energy efficient and healthy homes for people in energy poverty, you can significantly improve peoples mental, and physical health and save societal costs. These are clear conclusions that we can draw from an analysis of approximately 50 studies and reports. Studied by an Expert Study Group (ESG) of the member states of Belgium, The Netherlands, Ireland, Italy and Greece.



[CLICK HERE TO DOWNLOAD THE FULL REPORT](#)

Research shows that living in cold, damp homes can lead to serious health problems

These are some examples from the analyzed studies



RESPIRATORY PROBLEMS



30-50%

Increase in multiple respiratory and asthma-related health problems due to dampness and mold

21%

Fewer days of absence for children with asthma aged 6-12 years in households that received an efficient heater

MENTAL HEALTH PROBLEMS



47%

Of people in a survey study reported becoming anxious or depressed because of cold indoor temperatures

14%

Higher levels of stress for households that spend a high amount of their income on energy bills

These mental health improvements are mostly a result of increased living space, since they could properly heat more rooms

CARDIOVASCULAR PROBLEMS



Maintaining indoor temperature above

18°C

Could prevent 9% of high blood pressure cases, which lowers the chance of strokes and heart attacks

32.7%

Lower mortality risk for 65+ year olds, with a history of a cardiovascular-related hospitalization, after home is properly insulated

Energy renovation projects can save significant amounts of health costs

€194 billion every year

We now spend on costs for inadequate housing in the EU. This concerns both direct costs (e.g. healthcare bills) and indirect costs (e.g. loss of earnings, career prospects and missed days at school or work)

On the other hand, the total investment costs for energy renovations for all member states are estimated at

€295 billion in total

If we keep spending the costs for inadequate housing, this will add up to almost 2.000 billion in 10 years. With only 295 billion of investments to prevent this,

the potential savings of energy renovations in the EU can add up to

€1.700 billion

Cumulative cost of inadequate housing over a 10 year period vs total investment cost of energy renovations (in EUR billions)



As member states you can play a big role in these solutions

By helping to fill in the existing knowledge gaps and preparing policies to stimulate energy poverty schemes.

Identify target groups



Develop adequate communication tools



Set up referral services that, for example, refer healthcare patients to energy renovation schemes



Provide low threshold tailored renovation interventions



Measure outcomes



Set up training for health and renovation professionals



Share costs, for example by shifting health budgets to energy saving programs



Research shows that living in cold, damp homes can lead to serious health problems

RESPIRATORY PROBLEMS



30-50%

Increase in multiple respiratory and asthma-related health problems due to dampness and mould

21%

Fewer days of absence for children with asthma aged 6-12 years in households that received an efficient heater, an experimental study found

MENTAL HEALTH PROBLEMS



47%

Of people in a survey study reported becoming anxious or depressed because of cold indoor temperatures

14%

Higher levels of stress for households that spend a high amount of their income on energy bills

One study showed that energy efficiency interventions increased usable living space and privacy for families, which led to improved relationships within the homes and a decrease of missed education or work.

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By realizing energy efficient and healthy homes for people in energy poverty, you can significantly improve peoples mental, and physical health and save societal costs. These are clear conclusions that we can draw from an analysis of approximately 50 studies and reports. Studied by an Expert Study Group (ESG) of the member states of Belgium, The Netherlands, Ireland, Italy and Greece. For more information go to www.ca-eed.eu



Energy renovation projects can save significant amounts of health costs

€194 billion every year

Is the social and economic cost caused by inadequate housing in the EU. This concerns both direct costs (e.g. healthcare bills) and indirect costs (e.g. loss of earnings, career prospects and missed days at school or work)

On the other hand, the total investment costs for energy renovations for all member states are estimated at

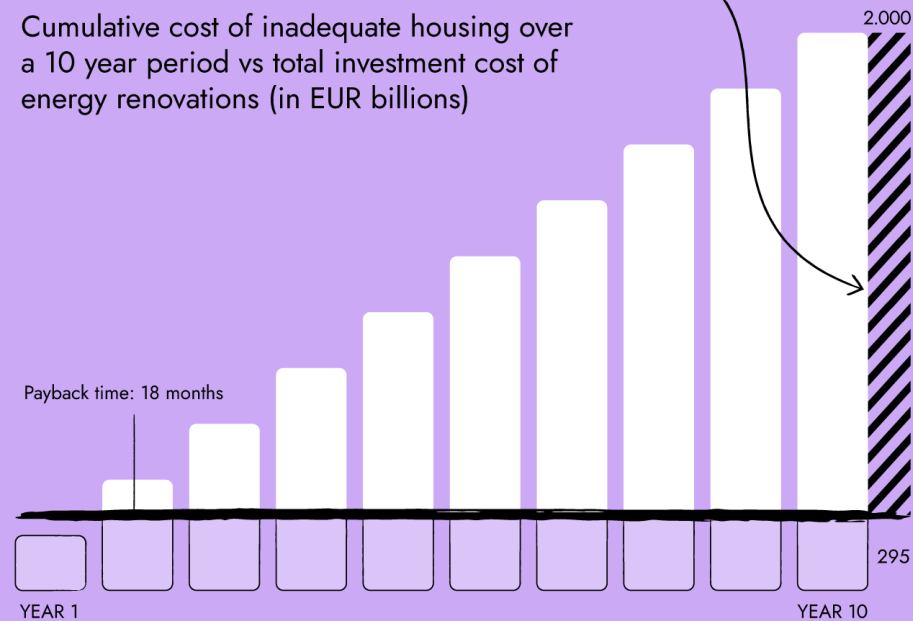
€295 billion in total

Not investing in renovation will cost the EU almost 2000 billion in 10 years. With only 295 billion of investments to prevent this,

the potential savings of energy renovations in the EU can add up to

€1.700 billion

Cumulative cost of inadequate housing over a 10 year period vs total investment cost of energy renovations (in EUR billions)



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Conclusions

Studies clearly confirm importance of health as integral part of the benefits of EE

Deliver warm, dry homes and removing households from fuel poverty can deliver substantial health cost benefits and induce many others.

↑ IMPROVED WELL-BEING

↓ LOWER MORTALITY

↓ REDUCED USE OF HEALTHCARE RESOURCES

↓ REDUCED VOLUME OF PRESCRIBED DRUGS



↑ IMPROVED EDUCATIONAL OUTCOME
↑ RAISE IN PRODUCTIVITY AND EARNINGS POTENTIAL
↑ INCREASED ASSET VALUE OF PROPERTY
↑ STRUCTURAL SAVINGS IN ENERGY AND EMISSIONS
↑ INCREASED SOCIAL CAPITAL
↑ LOCAL JOB OPPORTUNITIES AND TAX REVENUES

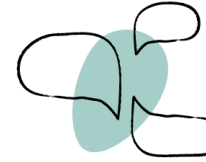
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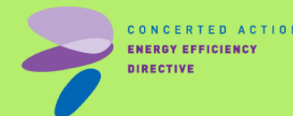
Set up training for health and renovation professionals



Share costs, for example by shifting health budgets to energy saving programs



By realizing energy efficient and healthy homes for people in energy poverty, you can significantly improve peoples mental, and physical health and save societal costs. These are clear conclusions that we can draw from an analysis of approximately 50 studies and reports. Studied by an Expert Study Group (ESG) of the member states of Belgium, The Netherlands, Ireland, Italy and Greece. For more information go to www.ca-eed.eu





Conclusions

- Great topic to explore more as a trigger for EE schemes and financing
- Expert Study Group: good colab format



Thank you for your attention

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