

National schemes for energy efficiency in SMEs

Final Project Results





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Introduction

The DEESME project focused on enabling companies to manage the energy transition by taking profit of multiple benefits from energy management and audit approaches, it also provided guidelines and recommendations for national authorities to empower their schemes under article 8 EED (now 11), using the multiple benefits' approach.

The project identified and shared good practices from national schemes, EU projects, and other initiatives with national authorities and supported them in developing more effective policies dealing with energy audits and energy management systems.

This report collects and summarises the main project outputs, including policy recommendations for National Authorities in the implementation of Article 11 of the Energy Efficiency Directive, best practices identified on the multiple benefits approach applied to energy audits and management and finally, results from DEESME's audits in SMEs and how the Multiple Benefits impact their company.



Recommendations to National Authorities

DEESME provided policy recommendations for National Authorities to face the challenges of implementing Article 11 of the Energy Efficiency Directive (EED) through an interactive map (see next page) and a <u>comprehensive report</u>.

recommendations were The collected from 10 countries (Austria, Bulgaria, Croatia, Finland, Greece, Ireland, Italy, Poland, Slovenia and Spain) which challenges demonstrated how relevant for implementing energy management systems companies will be with the implementation of Article 11 of the Energy Efficiency Directive.

The report highlighted the following aspects:

- Identified barriers and solutions
- Consultations with companies and key actors
- New challenges with the changes of the EED
- Discussions with National Authorities

Interactive map of policy recommendations



Investment analysis of the Multiple Benefits

The calculation tool developed in the framework of DEESME allows to analyze Energy efficiency investments including the associated Multiple Benefits (MBs).

Multiple Benefits are not usually included in investment evaluations, due to a general lack of data, methodology and skills.

This tool allows to give a good feedback to companies on the economic return of their energy efficiency investments and the associated MBs.

Some of the Mutiple Benefits are relevant for company purposes like the calculation of the carbon footprint or other information needed to complete economic social and environmental sustainability assessments that are increasingly requested to comply with new EU regulations.



Results from a Bulgarian company audited



-144.571 €

Results without Multiple Benefits

Results with Multiple Benefits

1.256.085 €



Internal Rate of Return

-15%

Results without Multiple Benefits

Results with Multiple Benefits

1%



Payback time

Results without Multiple Benefits

6 years

Results with Multiple Benefits

Results from a Bulgarian company audited





-59.692 €

Results without Multiple Benefits

Results with Multiple Benefits

1.099.459 €



Internal Rate of Return

Results without Multiple Benefits

0%

Results with Multiple Benefits

0.3%



Payback time

Results without Multiple Benefits

9 years

Results with Multiple Benefits

Results from a Bulgarian company audited



-327.88 €

Results without Multiple Benefits

Results with Multiple Benefits

2.265.503 €



-11%

Results without Multiple Benefits

Results with Multiple Benefits

1%



Payback time

Results without Multiple Benefits

> 10 years

Results with Multiple Benefits



Results from an Italian company audited



Results without Multiple Benefits

440.224 €

Results with Multiple Benefits

1.480.908 €



Internal Rate of Return

Results **without** Multiple Benefits

17%

Results with Multiple Benefits

43%



Payback time

Results without Multiple Benefits

5 years

Results with Multiple Benefits

Results from an Italian company audited



Results without Multiple Benefits

20.494 €

Results with Multiple Benefits

334.460 €



Results without Multiple Benefits

9%

Results with Multiple Benefits

57%

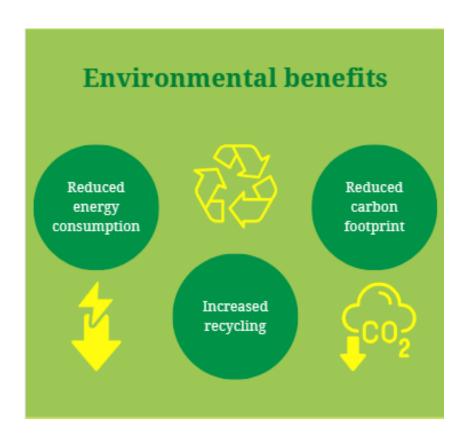


Results without Multiple Benefits

6 years

Results with Multiple Benefits

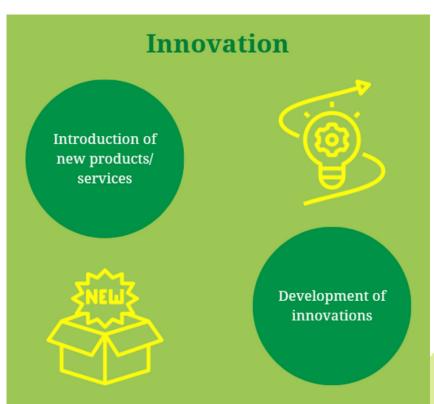
Multiple Benefits identified for SMEs during audits





Multiple Benefits identified for SMEs during audits





Best practices for SMEs in implementing Multiple Benefits

The DEESME project gathered a wide range of <u>best</u> <u>practices</u> on applying the multiple benefits approach to energy audits and management, the report collected 10 best practices that can be implemented for companies in the four testing countries: Italy, Bulgaria, Poland and Germany.

The report highlights how these practices can and should be used as a management tool and provides the methodology for the identification of best practices within the DEESME project. The report also offers a focus on the key learnings that can be used as guidelines for future implementations.

DEESME also provided a summary of these practices into <u>seven infographics</u> (see next page).

Accurately identify areas of energy waste



e.g changes to equipment, operations, or maintenance practices

Develop accurate recommendations for improvement

Complete & accurate data

Complete and accurate data comes from an energy audit, which provides a complete data set for taking decisions on energy issues.

e.g assess the effectiveness of energy conservation measures and identify new opportunities for improvement

Track progress
over time or
analyze energy
performance under
different
configurations



Begin activities in advance

which will allow companies to collect and analyze accounting data in depth

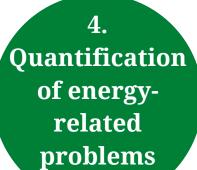








Track progress
over time and find
areas of
improvement





Help companies
to comply with
regulations,
attract investors,
and enhance
reputation



Make informed decisions about energy investments

Ensure that employees and managers understand the multiple benefits approach

and the requirements of the energy management system



Build a culture of energy efficiency and sustainability

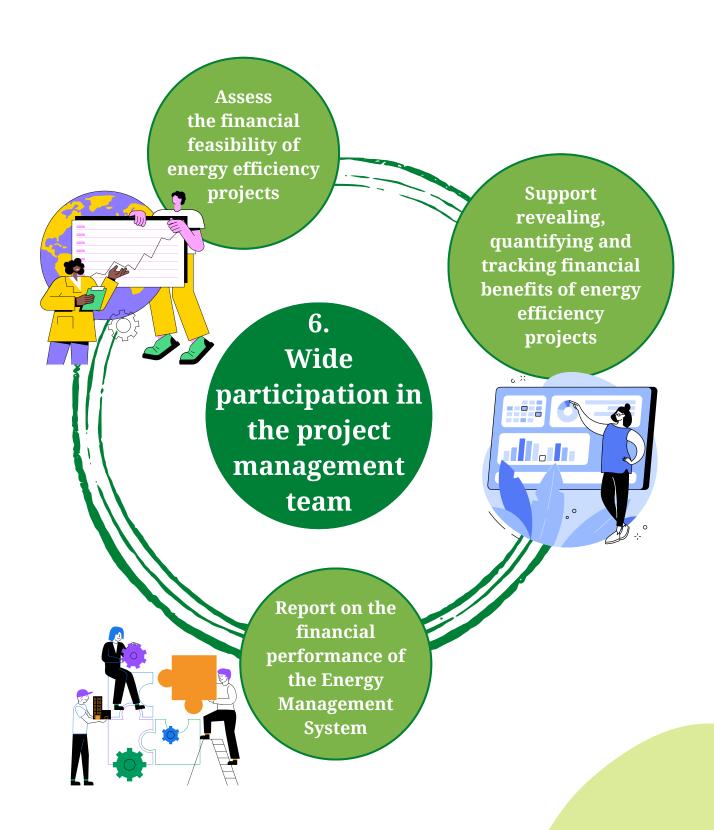
e.g improve the organization's energy performance

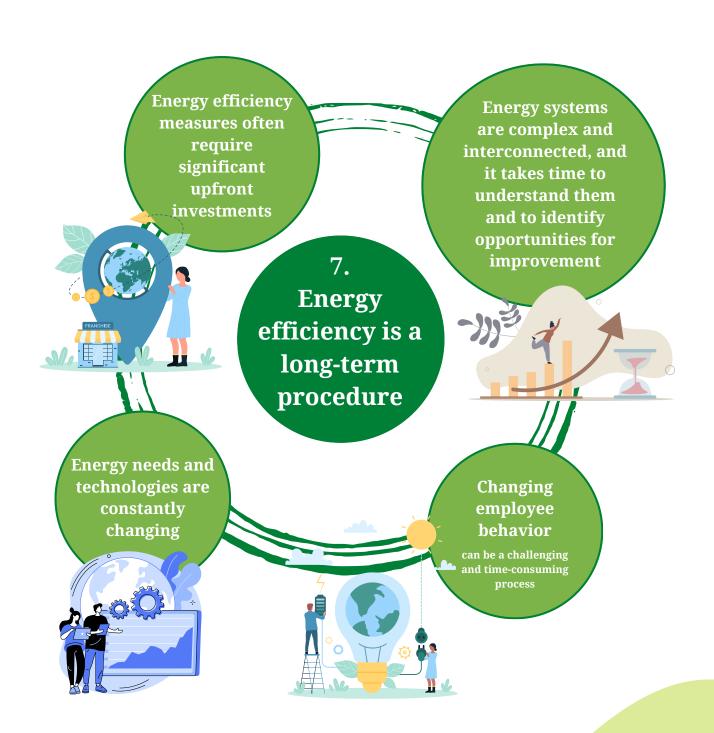


5.
Training
personnel and
managerial
staff

Develop
knowledge and
skills that
employees need to
perform their
roles in the Energy
Management
System







Project partners



















Discover DEESME 2050!



DEESME 2050 is a continuation of the DEESME project and develops energy efficiency projects in SMEs for European 2050 targets, in the furniture sector.



Follow the project on LinkedIn, Twitter and find all the project's contents on our website.



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