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SPEEDIER
SME Program for Energy Efficiency through Delivery and Implementation of EneRgy Audits

D8.9 –Final Project Conference

Lead Contractor: Sustainable Innovations (SIE)

Author(s): Mariana Fernández, Head of Communications at SIE

Date: 30th November 2021

This document is the Speedier Final Conference report (contract no. 847034) corresponding to D8.9 (M30) led by SUSTAINABLE INNOVATIONS EUROPE (SIE).

Project details			
Project acronym	SPEEDIER	**Start / Duration**	June 2019/ 30 Months
Topic	LC-SC3-EE-8-2018-2019 Capacity Building programmes to support implementation of energy audits	**Call identifier**	H2020-LC-SC3-EE-2018
Type of Action	CSA	**Coordinator**	Padraig Lyons (IERC)
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Document History			
Date	**Version**	**Name**	Changes
22/10/2021	0.1	Mariana Fernández	First document version.
19/11/2021	0.2	Jesús Serrano	Internal quality review.
22/11/2021	0.3	Mariana Fernández	Implementation of changes.
24/11/2021	0.4	Tom Flynn	Review and QA'd.
30/11/2021	1.0	Padraig Lyons	Approved for EC portal submission.

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1 Executive Summary

The primary aim of SPEEDIER is to provide a self-financing outsourced energy management service to SMEs, by outsourcing the role of energy manager to SPEEDIER Experts and, by that, allowing to access the expertise needed at the required time, leading to greater uptake of energy audits and implementation of energy efficiency measures.

This document corresponds to the **Final Conference report** deliverable, describing the activities undertaken to organise SPEEDIER's final event in an online version.

1.1 Context of WP8

The objectives of WP8 are to:

1. Enable future exploitation of the results to their full potential by disseminating and communicating them to the relevant stakeholders who will use and implement them;
2. Ensure that the findings of the programme are widely communicated to the public in general;
3. Support the market uptake of research and innovation results;
4. Prepare the corporate image and a set of materials for the promotion and comprehensive dissemination of SPEEDIER Service and its outcomes.

1.2 Objective of Task 8.3

As outlined in Task 8.3, the project partners were expected to participate in relevant forums, fairs, and events to further boost the dissemination of programme outputs and opportunities offered by cross sectoral and to host and participate in a final conference to be held towards the end of the programme (M28), where the project team will present the SPEED|IER project outcomes and the future steps towards the use of SPEEDIER across the European Union. This final conference took place in M30 in an online version. Although it was originally thought to be a face-to-face event, the consortium partners decided to go with an online venue due to the uncertainty of the COVID-19 situation.

1.3 Objective of Deliverable D8.9

Deliverable D8.9 corresponding to the final conference report was aimed at summarising the event organisation, development, and KPIs obtained during the event. The final conference addressed a good number of stakeholders including policymakers, academia, industry, SMEs, etc, with the aim to raise awareness on how SPEEDIER can help to achieve Article 8 of the EED Directive goals in terms of energy efficiency.

2 Introduction

Sustainable Innovations Europe (SIE) led the organisation of the final conference with contribution with the rest of the consortium partners, as well as the related project initiatives SPEEDIER has been working with to boost energy efficiency among SMEs: DEESME, E2DRIVER, ICCEE, Innoveas, SMEmPower Efficiency and Triple A.

The final conference was originally expected to be held in person at EU level, and thus, Brussels was the planned physical location. However, due to the still ongoing COVID-19 restriction measures, it was finally decided that an online event will be better option for the final conference.

After a partner vote, it was decided that November 17th at 10:00 CET was a good timeslot to organise the venue. The event lasted for two and a half hours and covered the most relevant achievements SPEEDIER has obtained after 30 months of research.

The session was coordinated by SIE, and it counted with the participation of all the project partners, who actively participated with a presentation of the work each of them performed during the project execution. The abovementioned projects were also present at the event where they disseminated their projects main goals and challenges.

2.1 Registration platform

SIE used Eventbrite as platform for interested participants to register. Over there, information on the date, hours, number of tickets available and purpose of the session was showcased. The possibility to register was also given to participants.

After registering, participants received an email confirming they are correctly subscribed for the event, and they were also encouraged to visit and follow the project's corporate channels.

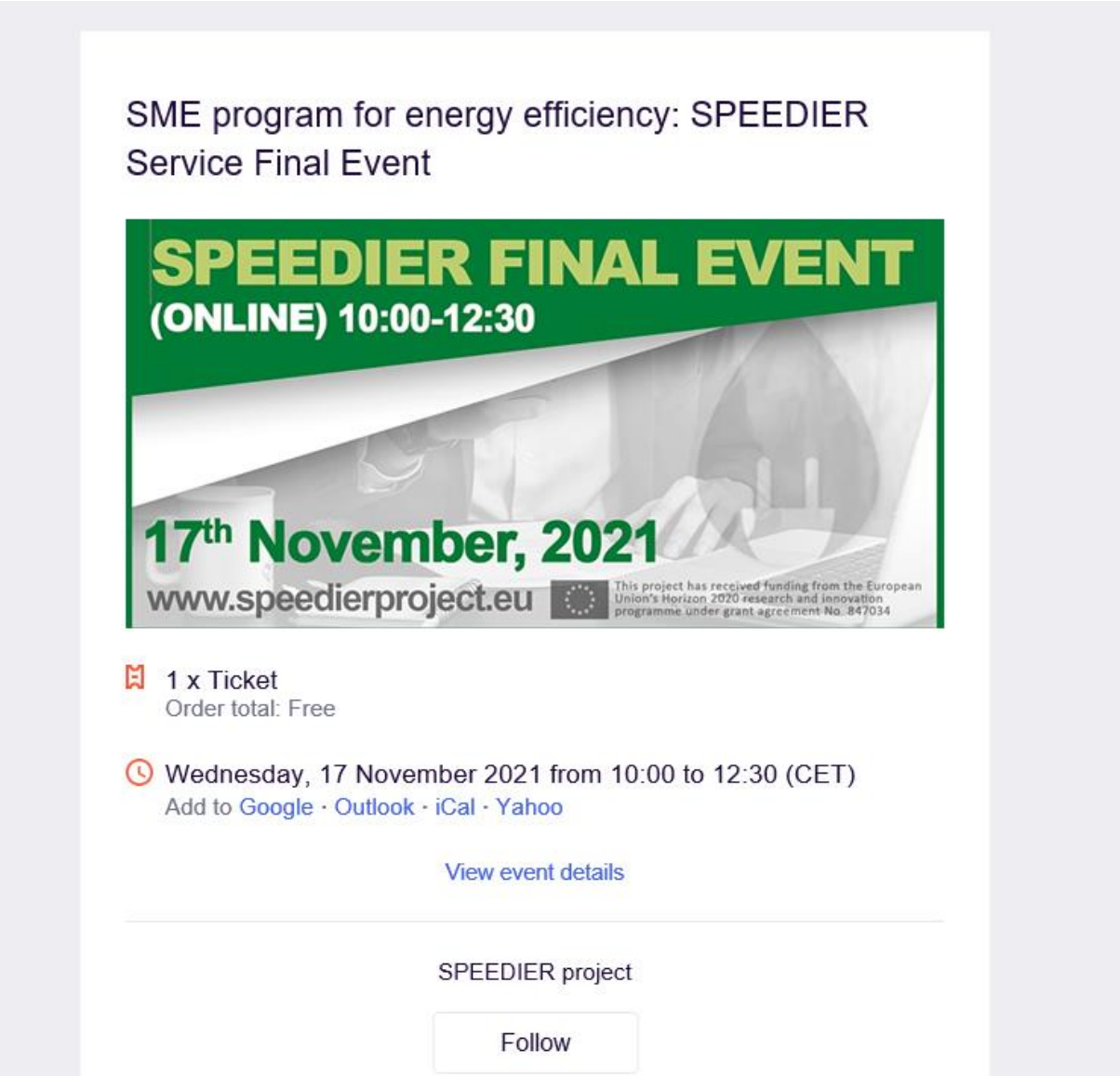


Figure 1: Email confirmation after registering to SPEEDIER Final event

2.2 Tool

The tool used for the online session was Zoom webinars. The reason behind using this site was its user-friendly platform, the flexibility to showcase contents and polls, as well as the analytics it offers for number of participants.

SIE was in charge of providing the link to the connection to the registered participants on Eventbrite.

2.3 Flyer and agenda

The final conference had a very ambitious KPI in terms of attendance (100 people). That's why SIE, in collaboration with the SPEEDIER partners, worked hard to promote the event, one and a half months in advance of the date for the event.

For this promotion, a flyer as well as the event agenda was prepared and distributed among the consortium who disseminated widely through their stakeholders by email, social media posts, and publications on their websites.

Figure 2 & 3: Final event flyer and agenda

The session was moderated by SIE, who opened and introduced the event, presented each of the speakers, showed the presentation slides through Zoom, prepared the poll questions, and closed the session.

2.4 Event dissemination

Tool	Communication and dissemination measures / activities	Target groups
Invitation emails	Invitations were sent out to the SPEEDIER consortium for them to distribute it among their contacts.	Local authorities, funding bodies, policy makers, industry, media, SMEs, energy experts and other energy efficiency-related national or EU projects.
Newsletter	Two newsletters were released containing information on the SPEEDIER Final event. The first one invited stakeholders to join the online session, while the second one informed about the results of the event.	
Press release	A press release was prepared, released, and uploaded to the website to inform general and trade media about the venue.	
Social media announcements	The event was widely spread through SPEEDIER's LinkedIn and Twitter social media channels, as well as through the consortium partners corporate and personnel channels. SPEEDIER related projects also contributed to the dissemination.	
Website pop-up	A pop-up was installed on the project website's homesite, announcing the conference, and inviting people to register.	
Website news	A blog post was published announcing the details of the online conference (date, time, and agenda) on the SPEEDIER website under the events section. SPEEDIER related projects also uploaded information on their websites. More information can be found on the Final Communication and Dissemination Plan.	
Follow up email	After the event, a follow up email was sent to registered participants sending them the	

	video of the session and inviting them to follow the corporate channels for more information.	

Table 4: Dissemination channels

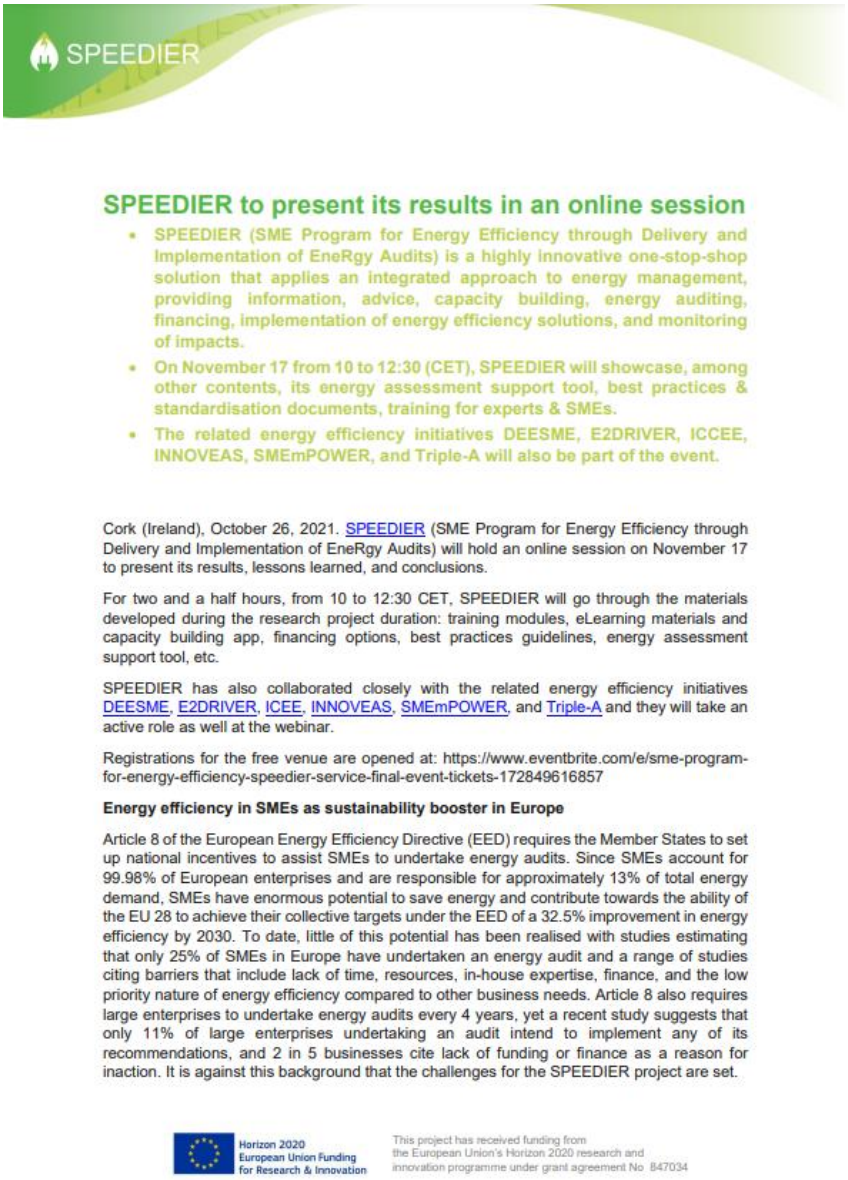
To guarantee the event success, SIE prepared a comprehensive strategy to disseminate the event. After working on the flyer and event layout, SIE prepared an email and shared it with the consortium partners for distribution among their contacts. In parallel, a campaign on the website and social media channels followed. A pop-up was included with the information of the event and registration link, so every website visitor could directly access the information there. All details were also included on the event section of the website. Some related projects posted information on the event as well on their social media channels and website (1, 2).

On SPEEDIER social media channels, several posts (1, 2, 3, 4, 5, 6) were made to announce the event, and a specific event page was created on LinkedIn for greater impact.

Two newsletters (1, 2) were released containing information on the SPEEDIER Final event. The first one invited stakeholders to join the online session, while the second one informed about the results of the venue.

Once the recorded session was available, it was shared though a follow up email, as well as on the website and social media channels.

Likewise, a press release was launched to more than 200 media outlets to inform them about the event. This press release was written in English and translated into the three pilot languages (Italian, Romanian and Spanish) and uploaded to the website. The event was also promoted through the Build Up platform.



SPEEDIER

SPEEDIER to present its results in an online session

- SPEEDIER (SME Program for Energy Efficiency through Delivery and Implementation of EneRgy Audits) is a highly innovative one-stop-shop solution that applies an integrated approach to energy management, providing information, advice, capacity building, energy auditing, financing, implementation of energy efficiency solutions, and monitoring of impacts.
- On November 17 from 10 to 12:30 (CET), SPEEDIER will showcase, among other contents, its energy assessment support tool, best practices & standardisation documents, training for experts & SMEs.
- The related energy efficiency initiatives DEESME, E2DRIVER, ICCEE, INNOVEAS, SMEmPOWER, and Triple-A will also be part of the event.

Cork (Ireland), October 26, 2021. SPEEDIER (SME Program for Energy Efficiency through Delivery and Implementation of EneRgy Audits) will hold an online session on November 17 to present its results, lessons learned, and conclusions.

For two and a half hours, from 10 to 12:30 CET, SPEEDIER will go through the materials developed during the research project duration: training modules, eLearning materials and capacity building app, financing options, best practices guidelines, energy assessment support tool, etc.

SPEEDIER has also collaborated closely with the related energy efficiency initiatives DEESME, E2DRIVER, ICEE, INNOVEAS, SMEmPOWER, and Triple-A and they will take an active role as well at the webinar.

Registrations for the free venue are opened at: https://www.eventbrite.com/e/sme-program-for-energy-efficiency-speedier-service-final-event-tickets-172849616857

Energy efficiency in SMEs as sustainability booster in Europe

Article 8 of the European Energy Efficiency Directive (EED) requires the Member States to set up national incentives to assist SMEs to undertake energy audits. Since SMEs account for 99.98% of European enterprises and are responsible for approximately 13% of total energy demand, SMEs have enormous potential to save energy and contribute towards the ability of the EU 28 to achieve their collective targets under the EED of a 32.5% improvement in energy efficiency by 2030. To date, little of this potential has been realised with studies estimating that only 25% of SMEs in Europe have undertaken an energy audit and a range of studies citing barriers that include lack of time, resources, in-house expertise, finance, and the low priority nature of energy efficiency compared to other business needs. Article 8 also requires large enterprises to undertake energy audits every 4 years, yet a recent study suggests that only 11% of large enterprises undertaking an audit intend to implement any of its recommendations, and 2 in 5 businesses cite lack of funding or finance as a reason for inaction. It is against this background that the challenges for the SPEEDIER project are set.

Horizon 2020 European Union Funding for Research & Innovation

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847034

Figure 5: Seventh Press Release English

SPEEDIER

OCTOBER 2021

In this issue....

Save the date: 17th November 2021 - SPEEDIER final event!
SPEEDIER collaborates with CUBE in Ireland
19th October: SPEEDIER at EUSEW with its sister projects
SPEEDIER at World Sustainable Energy Days 2021
SPEEDIER at SME Power Interreg Europe
Other news in brief
Come join us in social media!

Save the date: 17th November 2021 - SPEEDIER final event!

SPEEDIER is delighted to announce that SPEEDIER final event, *SME Program for energy efficiency: SPEEDIER Service Final Event* will be hosted online on November 17, from 10 to 12:30 (CET).

Figure 6: Eighth Newsletter (M28)

2.5 Methodology and content

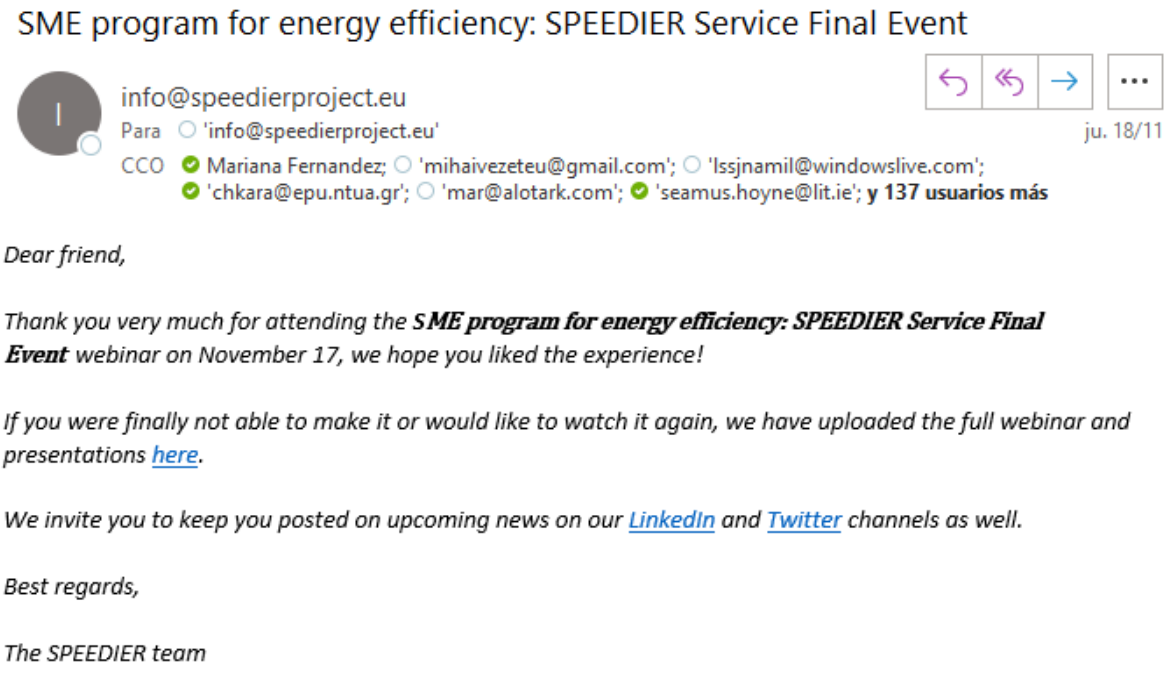
The format of the webinar was based on different live presentations (available on Annex 1) and included interactive sessions with the audience, who could send their contributions through the polls and Zoom's live chat.

SIE was the moderator, in charge of doing the introduction, transitioning between presentations, and moderating the questions and interactions with the participants. During the entire webinar, SIE was able to see who was connected, if any of the participants "raised their hand" (there is an option in the tool to do so) and all the comments in the chat.

Before the workshop, SIE organised a rehearsal to guarantee that the platform run smoothly with the main partners involved.

2.6 Materials provided

A follow up email was also sent to all the attendees, where they could find an invitation to visit the project website where the recording and presentations were uploaded. They were also invited to follow the project on LinkedIn and twitter.



SME program for energy efficiency: SPEEDIER Service Final Event

info@speedierproject.eu

Para 'info@speedierproject.eu' ju. 18/11

CCO Mariana Fernandez; 'mihaivezeteu@gmail.com'; 'lssjnamil@windowslive.com'; 'chkara@epu.ntua.gr'; 'mar@alotark.com'; 'seamus.hoyne@lit.ie'; **y 137 usuarios más**

Dear friend,

*Thank you very much for attending the **SME program for energy efficiency: SPEEDIER Service Final Event** webinar on November 17, we hope you liked the experience!*

If you were finally not able to make it or would like to watch it again, we have uploaded the full webinar and presentations here.

We invite you to keep you posted on upcoming news on our LinkedIn and Twitter channels as well.

Best regards,

The SPEEDIER team

Figure 7: Follow up email

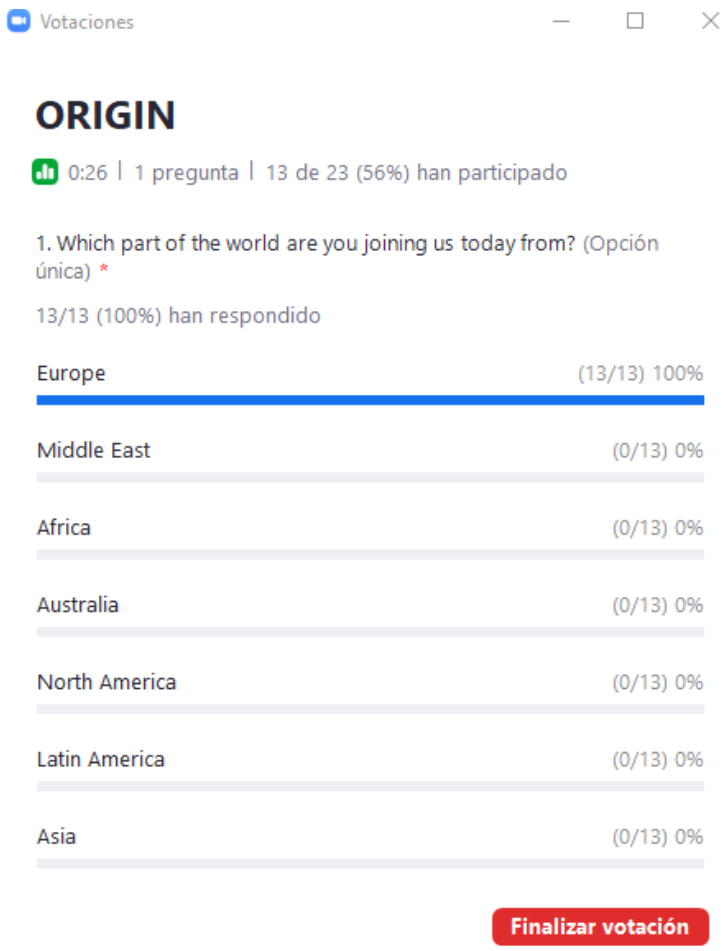
2.7 Participants

A total of 128 participants registered, of which 48 joined the webinar. Out of those 48, 17 where panellists and 31 general attendees.

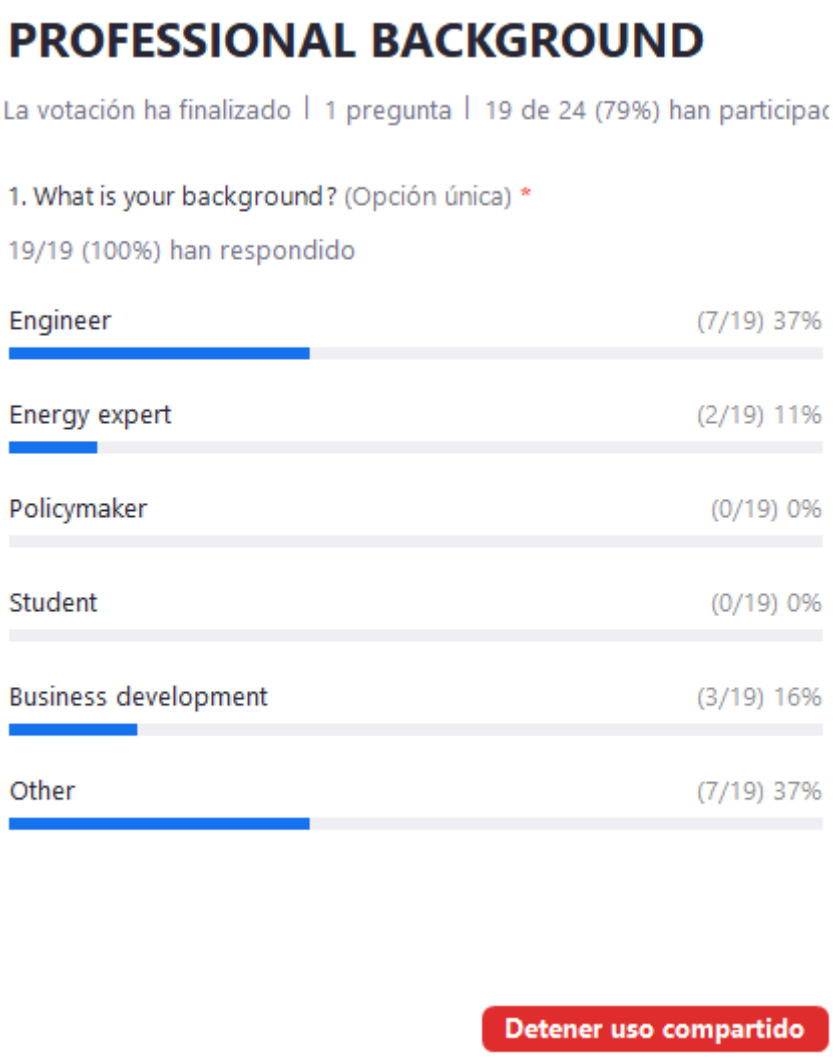
Apart from the SPEEDIER consortium different organisations, representatives from the companies Grayling Andalucía, Zero-E engineering, Unwelttechnik, Torcbrewing, Stajerskagz, RINA, SEAI, Ekodoma, Arbcn, Servelect, Ecomerit, CKA, and Actexpert attended the session.

A poll was launched at the beginning of the session to know more about the profile of the attendees. Although it was stated that all of them were coming from Europe, certain people joined later from India, Latin America and Nigeria.

Regarding the professional background, the majority of the people attending were mostly engineers, energy experts and business developers.



Figures 8 & 9: Origin & professional background polls



2.8 Discussion and engagement

During the webinar, participants had the opportunity to contribute to the event through the chat and Q&A sections with their questions or comments. Over there, two participants raised their interest in collaborating with the organisations present during the webinar in energy efficiency in Nigeria and in a possible proposal under the topic *LIFE-2021-CET-AUDITS: Uptake of energy audits recommendations for the energy transition of companies.*

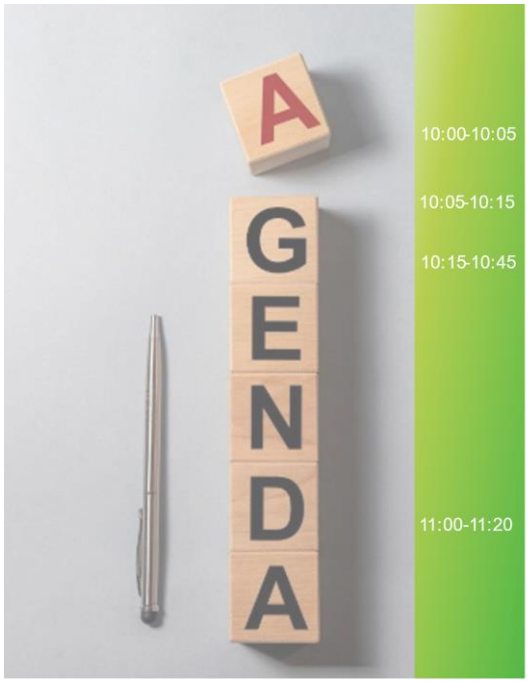
There was also an interesting discussion on what energy culture meant for the different organisations present at the venue.

After the presentations of the different related projects of SPEEDIER and the general overview given on the project, the audience was asked to provide their opinion on what was the most effective approach to energy efficiency: training, energy expert support or financing and the answer was even: participants provided a 33% vote for each of the options.

2.9 Feedback

As it was an online event, the consortium decided to receive feedback from the audience through a questionnaire that popped up after the session. 18 people out of 31 voted and the general evaluation (ranking from 1 (bad) to 10 (very good)) was an average of 8,5.

3 Annex 1: SPEEDIER Final event presentations



SPEEDIER

WORKSHOP AGENDA

Welcome & Introduction. Mariana Fernández *Sustainable Innovations*

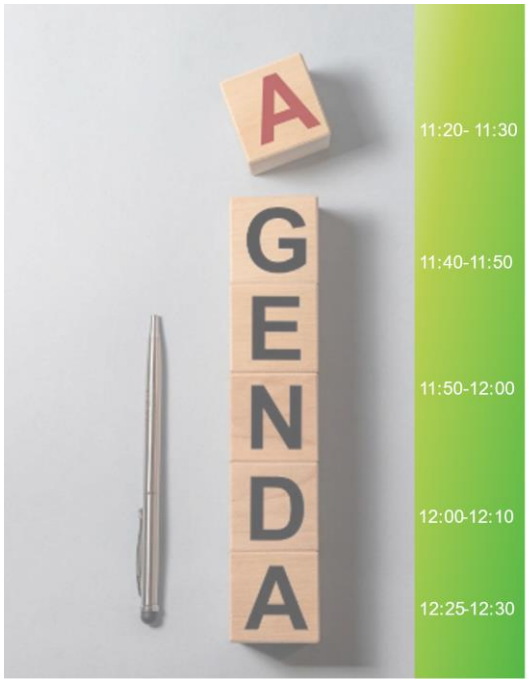
Overview of SPEEDIER project. Padraig Lyons *IERC*

SPEEDIER related initiatives

- DEESME. Detlef Olschewski *Cleopa*
- SMEMPOWER. Grigoris Papagiannis. *Aristotle University of Thessaloniki*
- INNOVEAS. Mara Corbella. *Istituto Professionale Edile Bologna*
- E2DRIVER. Erudino Llano. Fundación CIRCE.
- TRIPLE A. Filippos Mexis. *National Technical University of Athens*
- ICCEE. Simone Zanoni. *University of Brescia*

SPEEDIER Service: Implementation in pilot regions

- Romania: Ion Dogeanu *AEEPM*
- Ireland: Padraic O'Reilly *Technological University of the Shannon*
- Italy: Nicola de Giusti. Politecnico di Milano.
- Spain: Eva Martín *PCT Cartuja*



11:20- 11:30

11:40-11:50

11:50-12:00

12:00-12:10

12:25-12:30

SPEEDIER

WORKSHOP AGENDA

SPEEDIER tools

- Training app. Ruchi Agrawal *IERC*
- Energy expert support tool Diana Romeu *ITEC*.

Training for experts & SMEs

Padraic O'Reilly *Technological University of the Shannon*

Nicola de Giusti *Politecnico di Milano*

SPEEDIER Replication & business models

Ruchi Agrawal. *IERC*

Carla Sebastiani. *Sustainable Innovations*

SPEEDIER Best practices & standardisation

Tom Flynn. *TFC*.

Wrap up & end of event

WEBINAR NOTICES

This session is being recorded

Use the chat function to enteryour questions

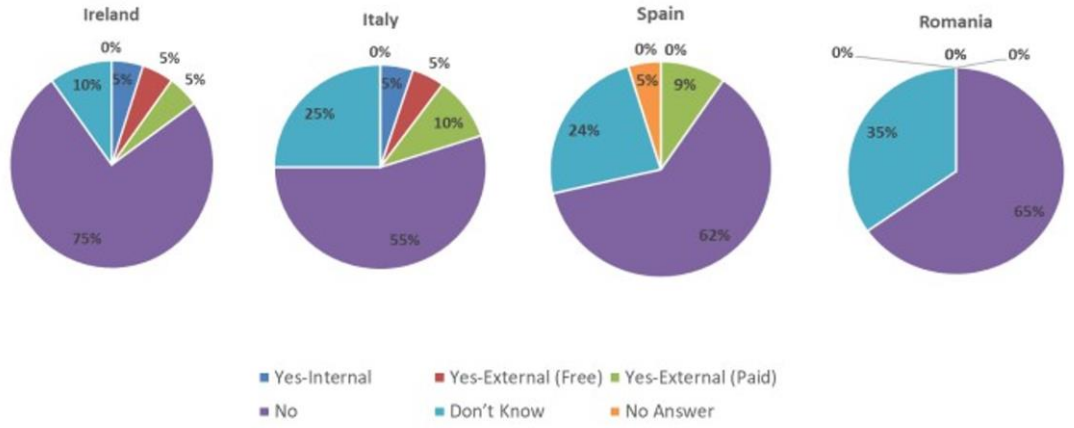
Participate & answerthe polls!

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

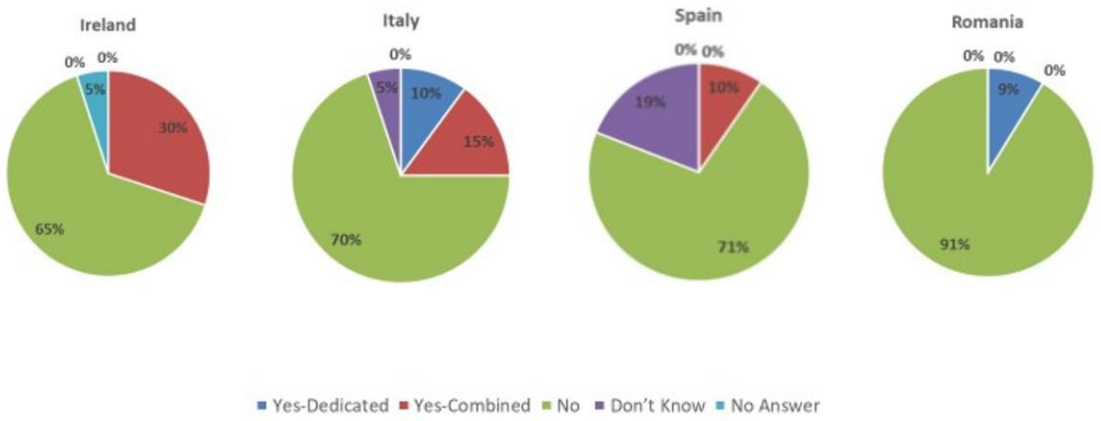
Key Results - SMEs

Has your organisation had an energy audit in the last 5 years?



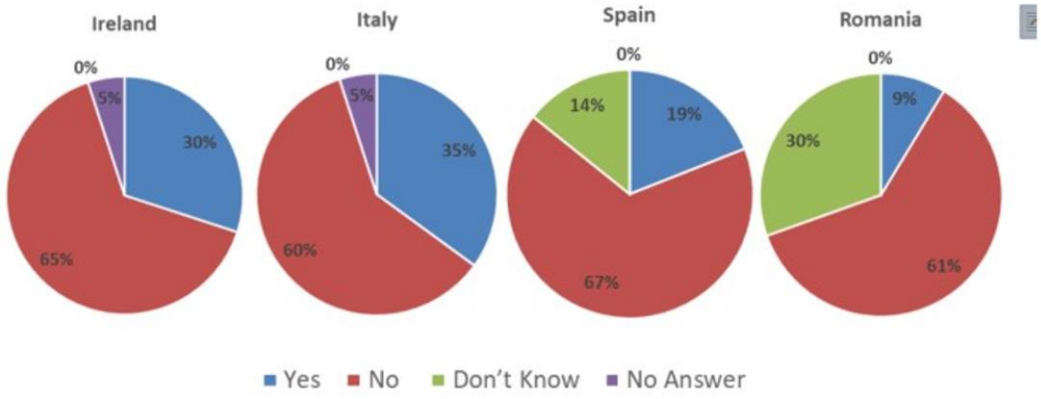
Key Results - SMEs

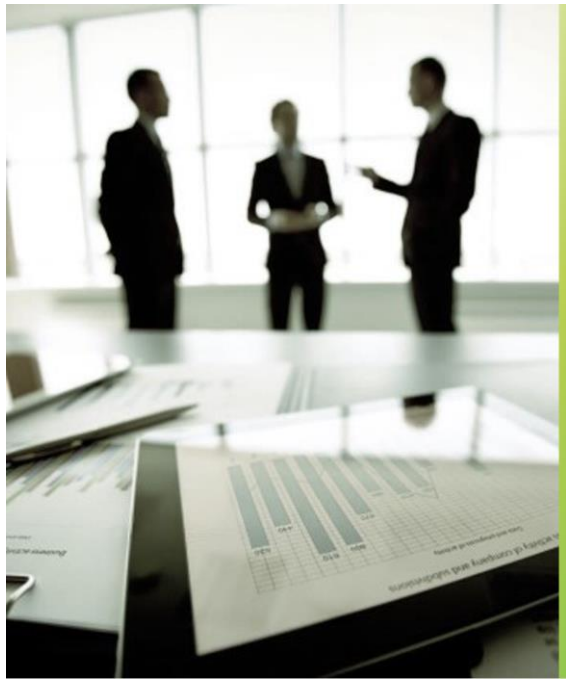
Does your organisation have an Energy Manager?



Key Results - SMEs

Does your organisation have an Energy Policy?





Setting the Scene

The EU has an energy efficiency target of 32.5% improvement by 2030.

MS must set up incentives to assist SMEs to undertake energy audits under Article 8 of the Energy Efficiency Directive (EED).

SMEs account for 99.98% of all enterprises in Europe.

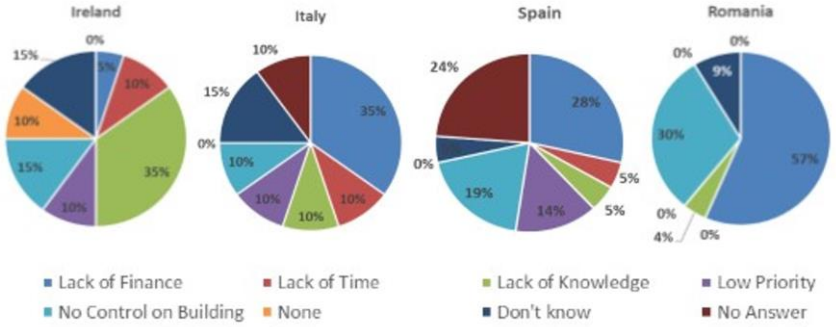
Collectively, SMEs account for 13% of total energy demand in Europe.

SMEs have great potential to contribute to achieving the EU's energy efficiency targets.

Key Results - SMEs

What is the main barrier to implementing energy efficiency measures?

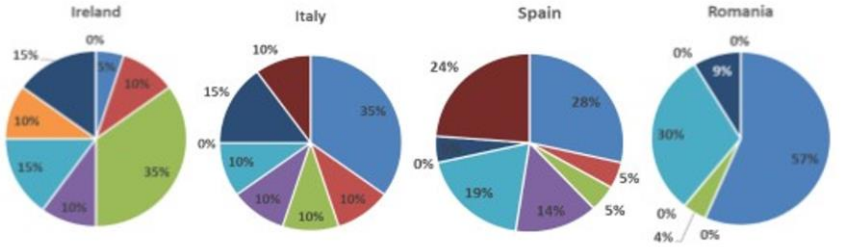
Answers from SMEs



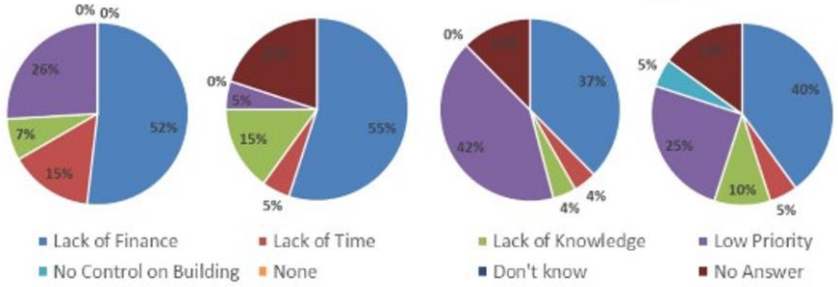
Key Results - SMEs

What is the main barrier to implementing energy efficiency measures?

Answers from SMEs



Answers from energy experts



SPEEDIER: Removing barriers

Barrier	How does SPEEDIERovercome the barrier?
Lack of finance	Use SPEEDIER ring-fencing mechanism
Lack of time	SPEEDIER Expert carries out most of the work as an outsourced activity
Lack of knowledge	SPEEDIER Expert advises on best package of measures
Low priority	SPEEDIER Expert aligns energy related projects to strategic business direction & builds an energy culture
Perceived risk	Investment comesfrom achieved savings SPEEDIER Expert can be paid from savings
No control of building	SPEEDIER is testing the approachwith landlords

How will SPEEDIER help?

SPEEDIER is an innovative one-stop-shop service that takes an integrated approach to energy management.

SMEs will outsource the energy management to a **SPEEDIER Expert** who provides information, advice, energy auditing and assistance to implement ECMs

SPEEDIER is self-financing – savings from low cost measures are ring fenced and reinvested in higher cost measures.

SPEEDIER removes the hassle from energy management and ensures the SME receives tailored advice that suits their business.

MAIN FEATURES

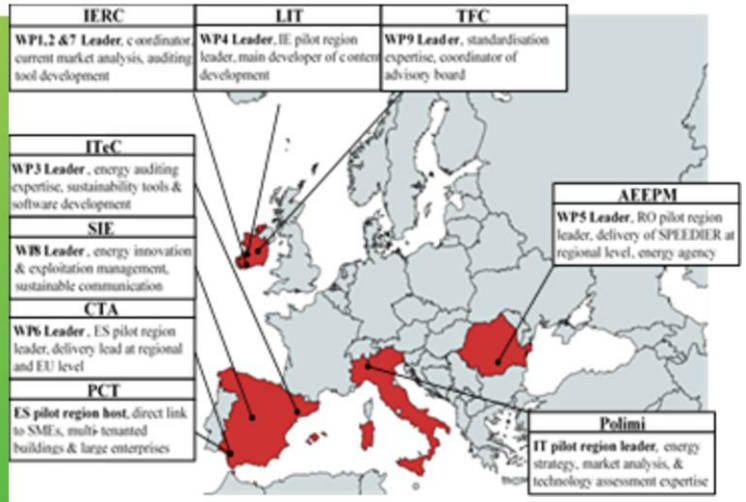
Horizon 2020 funded

€2.165M Budget

30 month duration

9 Partners, 4 countries

4 pilot regions
Ireland, Spain, Italy, Romania



Self-financing Mechanism

Implement simple no -cost measures first

⇩

Ring fence savings

⇩

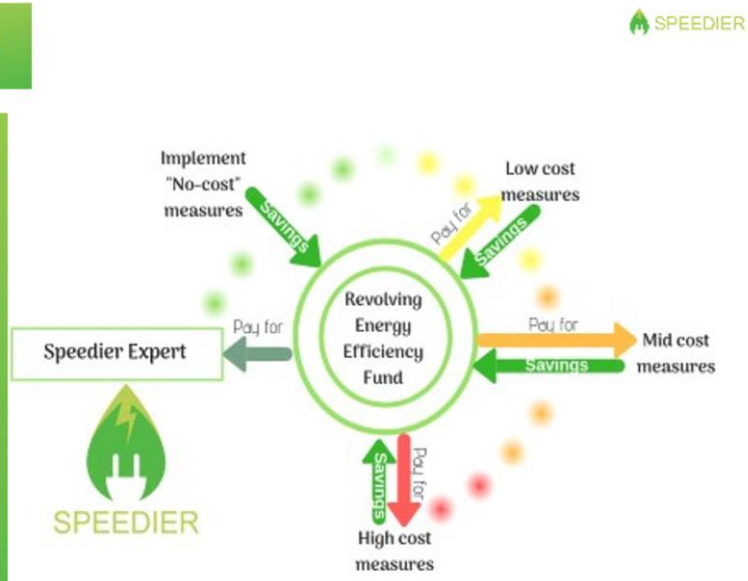
Re-invest in higher cost measures

⇩

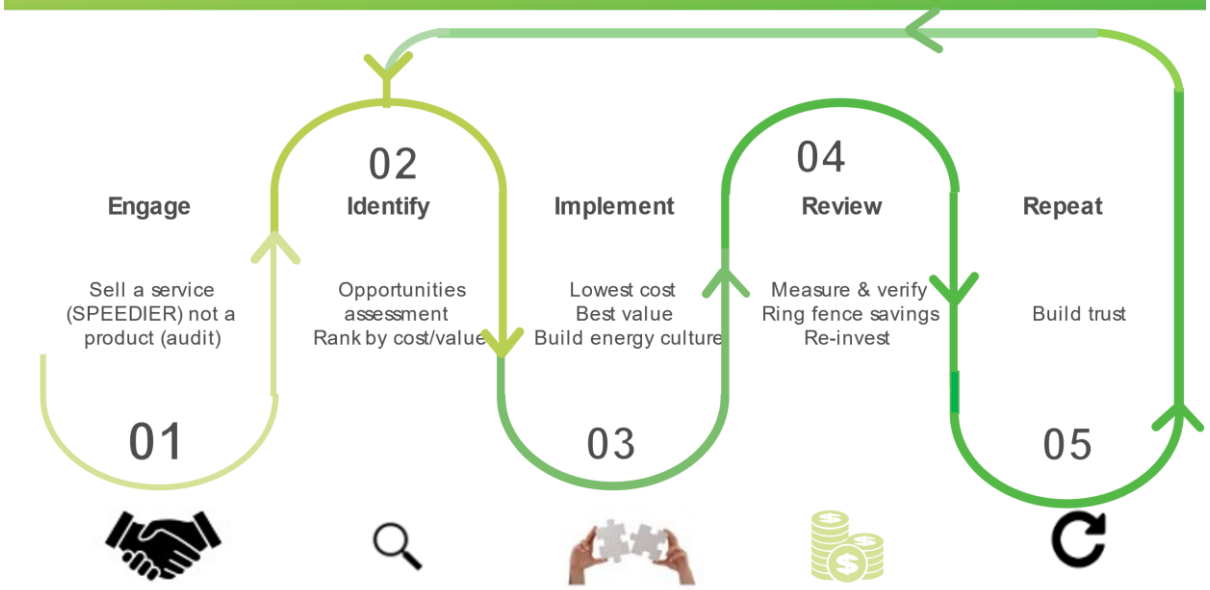
Supplement with other funding sources

⇩

Pay SPEEDIER Expert from savings



SPEEDIER Service Activities and Definition



SPEEDIER

SPEEDIER Related initiatives

DEESME, SMEMPOWER, INNOVEAS, E2DRIVER, TRIPLE -A, ICCEE projects

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement N. 847034

DEESME

National schemes for energy efficiency in SMEs

DEESME has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement No 892235.

Developing National Schemes for Energy Efficiency in SMEs (DEESME)

The responsibility for the information and the views set out in this presentation lies entirely with the authors. The European Commission is not responsible for any use that may be made of the information it contains.

DEESME objectives

Enabling companies to manage the energy transition by taking profit of multiple benefits a
energy management approaches.

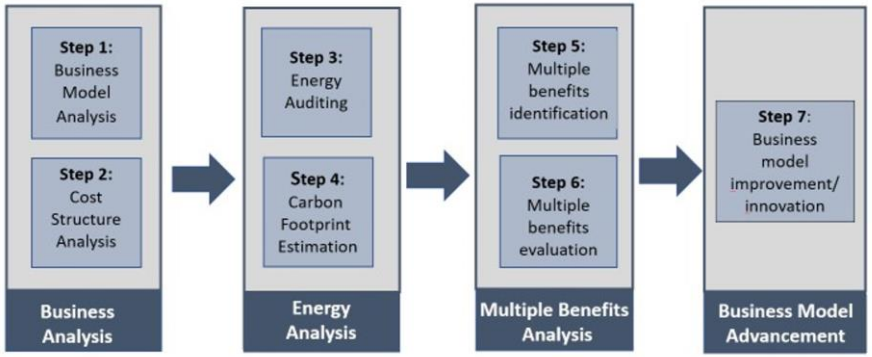
Supporting the development and the implementation of EU policies on energy efficiency
he framework of article 8 of the EED beyond the project by providing national authoriti
with guidelines proposals and recommendations on how to strengthen the national schem

Enhancing the adoption of the DEESME approach by National Authorities beyond the
project timeline through the implementation of institutionalization activities.

DEESME

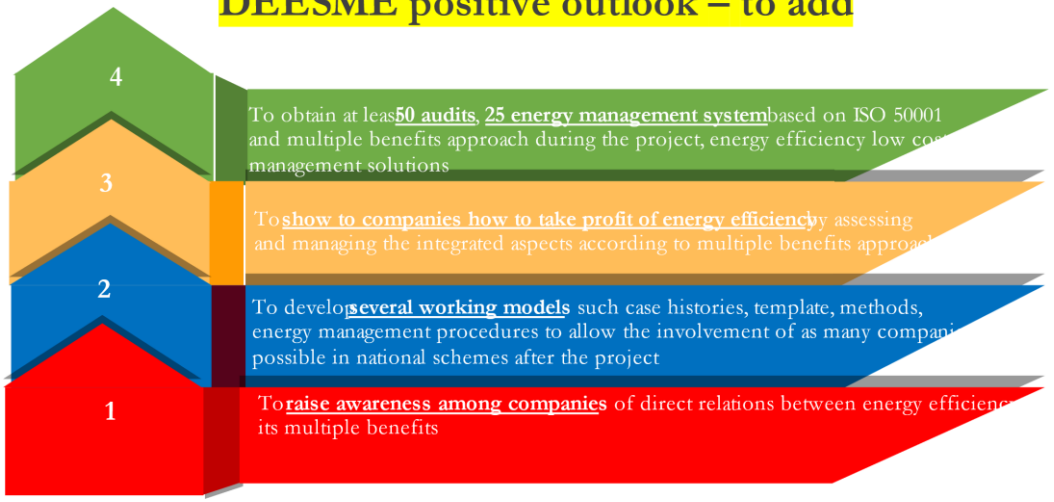
DEESME has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement No 892235.

The DEESME meets SPEEDIER slide



DEESME has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement No 892235.

DEESME positive outlook – to add



WP3 Enabling Companies to Take Profit of Multiple Benefits and Energy Management Approach

Thank you for your attention

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@DEESME H2020

A holistic framework for Empowering SME's capacity to increase their energy efficiency

SPEEDIER Final Event

SMEmPower Efficiency

Prof. Grigoris Papagiannis
Power Systems Laboratory
Aristotle University of Thessaloniki, Greece

November 17th, 2021

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847132

Main concepts

"Empowering" SMEs to **reduce energy consumption**

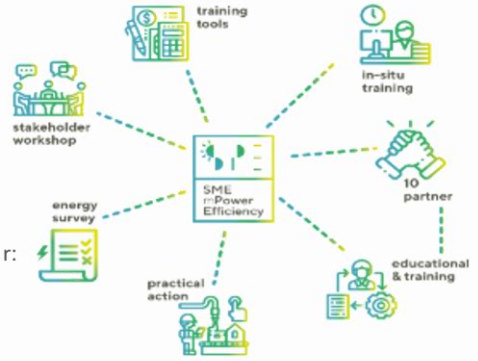
Motivating and facilitating SMEs

- to undergo energy audits
- to become familiar with the energy management concepts and tools
- to check for funding opportunities
- to implement energy savings measures increasing their energy efficiency

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847132

The SMEmPower Efficiency in numbers

- ✓ Offering **Education & Training courses** for more than **700 energy managers in SMEs**
- ✓ ON site **Short trainings** for at least **800 persons from SMEs** .
- ✓ Field work in at least **160 SMEs**
- ✓ Targeted **workshops**
- ✓ **Consultation** on funding options



Long lasting training tools that SMEmPower Efficiency will deliver:

- Training handbook in 7 languages
- Web platform for energy analytics
- Monitoring & Targeting and Measurement & Verification tools

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SMEmPower after two years

Identifying and Understanding Problems and Opportunities

» 1st round of targeted **workshops for SMEs**

» Reports on the **Framework analysis*, Funding mechanisms and Certification schemes for energy auditors and managers***

Education and Training Courses for SMEs:

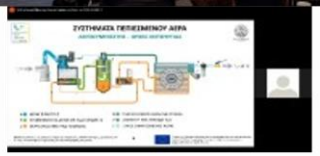
» The **Design of the E&T program** * has been concluded

» Publication of the **training handbook*** in 7 languages

» Delivery of the **1st Edition of the E&T courses** for **270 participants**

» In progress the **2nd Edition of the E&T courses** for **280 participants**

» Practical action and short trainings **51+62 SMEs**



* Documents available on the project web platform

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SMEmPower after two years

SMEmPower web platform and Energy Analytics Tools:

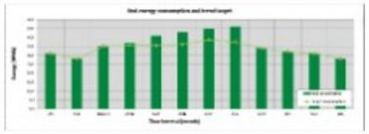
» Release of the **Web Platform** in 7 languages

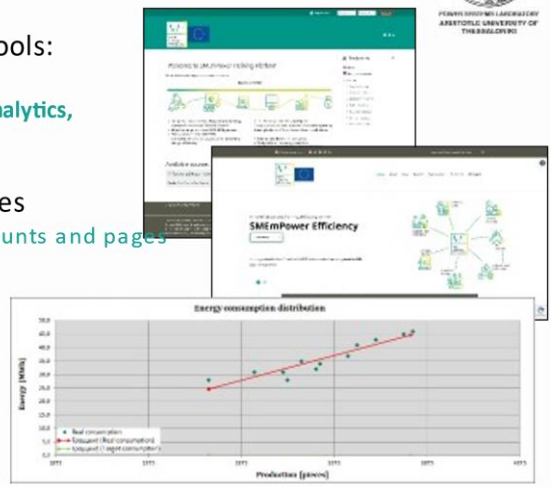
» Launch of online energy related tools for SMEs: **energy analytics, M&T and M&V tools**

Intense dissemination and communication activities

- ✓ Newsletters, Press Releases, SMEmPower social accounts and pages
- ✓ Participation in various events
- ✓ Videos
- ✓ Publications

- ✓ **Collaboration with sister projects**





project web platform

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847132

What's next

Education and Training Courses for SMEs:
» **Third editions** in each partner country
» **Practical action** in SMEs and **on-site short trainings**

Targeted workshops:
» **On funding opportunities and policy recommendations**

Policy recommendations

On-going dissemination and communication activities

Sustainability
» **Accredited courses exploitation plan**
» **Strategic collaborations**
» **Exploitation of the project tools**
» **Development of local and European groups of energy specialists**

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SME
mPower
Efficiency
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SMEmPOWER Energy Efficiency
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innoveas
INNOVating the uptake of
Energy Auditing Schemes
for SMEs
The consortium has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement N°847095

The project

Start:
1st
June 2019

End:
31st
May 2022

36 month

European Union
H2020 Funding:
1.999.857

6
Countries

1
Partners
0

Partners:
- IIPLE, Italy
- CBG, Italy
- UTBW, Germany
- A3E, Spain
- NAPE, Poland
- LEAG, Slovenia
- ESCI, Germany
- JER, Germany
- K&I, Italy
- CKA, Belgium

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Innoveas Project aimsto:
Increase energy culture and create an enabling environment to implement energy saving measures in SMEs.
33
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Our activities

Analyse the **barriers** of SMEs to energy audits

Inform about existing financial incentives

Highlight costs and **savings** of energy audits

Offer practical trainings

Create a network

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847095

Our targetgroups

- Industrial associations
- Policy makers
- Institutional actors
- Financial institutions

The final beneficiaries are the European SMEs

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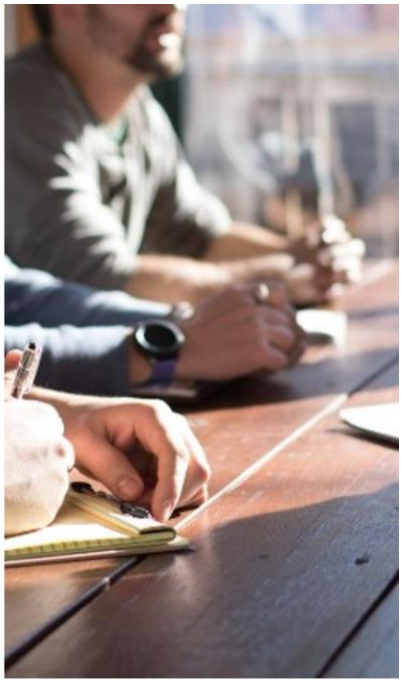

What has been done so far

- Analysis of the current attitude towards energy efficiency; Analysis of existing regulatory and financial conditions that influence the use of energy audits; Analysis of non-technical barriers that hinder the adoption of energy audits.
- Production of web-based modules for the training of SMEs, design and implementation of in-situ training programmes, design and implementation of in-company pre-audit
- Creation of a network and design of the "Alliance for energy audits in SMEs"

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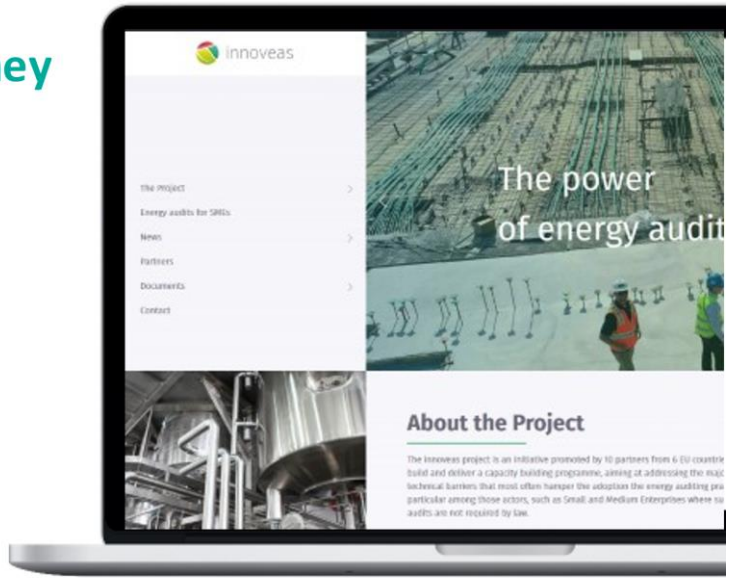
Follow our journey online

@EUInnoveas

INNOVEAS

INNOVEAS

innoveas.eu



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Thank you for your attention!

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 847095

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847038

E2DRIVER PROJECT

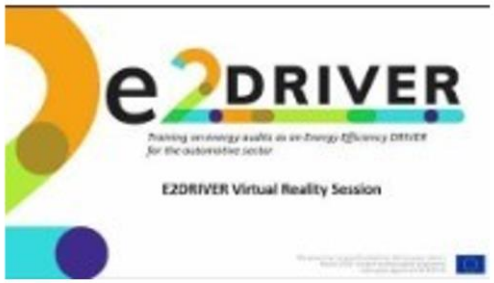
- E2DRIVER is a project funded by the European **Horizon 2020** programme
- It aims to boost **energy efficiency** in the European **automotive sector**
- To that end, **small and medium enterprises** (SME) are been trained in energy efficiency measures and energy audits
- E2DRIVER is focused on 4 countries: **Germany**, **Spain**, **France** and **Italy**
- Its objective is to train **40 companies** in total, 10 per country

E2DRIVER CAPACITY BUILDING PROGRAMME

- The E2DRIVER training entails a **blended learning format**: 2/3 online, 1/3 on-site
- The training is **customizable** depending on the needs and interest of the companies.
- E2DRIVER offers **four different training paths** for: Managers, Science and Engineering professionals, Technical Managers and Technicians.

TOOLS

- Virtual reality.
- Energy self-assessment tool & Financial assessment tool



https://youtu.be/SXzC_gRQB8w

POST-TRAINING SUPPORT

- **Identification** of potential energy efficiency measures.
- Support in the **estimation** of the impact.
- Support in the strategy of the **implementation**

BENEFITS FOR COMPANIES

- **A customized and free capacity building programme on energy efficiency**
- By following E2DRIVER recommendations, the company can increase **economic and energy savings**
- The company and workers can acquire **new skills** in the field of **energy efficiency** and **energy audits**

Additional benefits

- The company receives **advice** during the training period
- It receives a training **certification**
- Trainees have priority in E2DRIVER workshops and conferences
- The company can get information about the current state of the sector

E2DRIVER IMPACT

- Pilot phase: 9 pilots with 90 students.
- Replication phase: 31 replication companies in 2022.
- 65 energy efficiency measures implemented and 100 suggested.
- 13 GWh/year energy savings.
- 60 trainers of E2DRIVER Methodology.

e2DRIVER

www.e2driver.eu

@E2DRIVERProject

E2DRIVER Project

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e2DRIVER

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under grant agreement No 847038

Triple A: Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects

TRIPLE-A

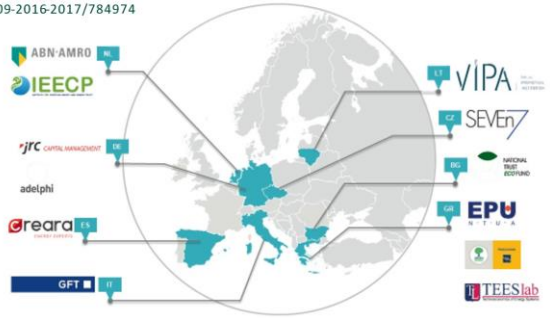
Philip Mexis

School of Electrical and Computer Engineering
National Technical University of Athens

EPU NTUA

GENERAL INFO

Title:	Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects
Funding:	European Union's Horizon 2020 Research and Innovation Programme -H2020-EU.3.3.7. H2020-EU.3.3.1.
Started:	September 2019
Duration:	30 Months
Coordinator:	National Technical University of Athens (NTUA) - Greece
	Prof. John Psarras
Participants:	12
Budget:	1.486.196,25€
Contract No:	H2020-EE-09-2016-2017/784974
Grant agreement ID	846569



CONTRIBUTION

TRIPLE-A

How EE financing becomes mainstream?

Triple -A scope is to:

- **Promote** investments that have a strong capacity to meet their commitments, at an early stage.
- **Identify** the Triple -A investments, fostering sustainable growth.
- **Reduce** the respective time and effort required at the crucial phase of the investments conceptualization.
- **Increase** transparency and efficiency of respective decision making.
- **Make** energy efficiency investments more attractive for investors / financiers and project developers.

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THE TRIPLE -A APPROACH

TRIPLE-A

Practical result-oriented approach, seeking to answer three questions:

Assess How to **assess** the financing instruments and risks an early stage?

Agree How to **agree** on the Triple-A investments, based on selected key performance indicators?

Assign How to **assign** the identified investment ideas with possible financing schemes?

Triple-A methodologyand tools offer:

- Standardised process for the identification of **attractive "Triple-A" project ideas** which merit attention by the fundingorganizations(bankers, fundsand other financinginstitutions).
- **Funding strategies** (Green Loans & Mortgages, Green Bonds and Energy Efficiency Auctions)& **portfolio of EE projects**that better match with the needs of respective beneficiaries.
- Consultationprocess to engage national stakeholders, enable the **development**, **implementation**, **testing** and **exploitation** of the proposedTriple-A innovativescheme for energy efficiency financing

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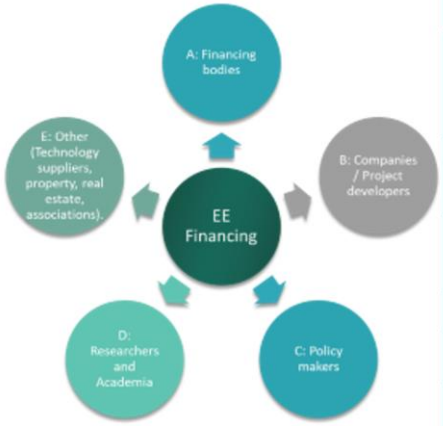
TRIPLE-A S TAKEHOLDER E NGAGEMENT



Activity	Status	Target Groups
Bilateral & multilateral consultation	723 stakeholders identified , 65 bilateral meetings with 74 participants. 8 Triple -A Advisory Board Members - 22 bilateral meetings	A, B & C
Capacity Building Webinars & Regional Training workshops	Organisation of 9 Capacity Building Webinars in the 8 case study counties with 224 participants	A, B & C
Standardised Tools & benchmarks	627 visitors of the Triple -A Tools; 120 stakeholders signed up to the Triple -A Tools. 480 visitors of the Web -based Database	A, B & C
Online Questionnaires	198 responses in 4 Triple -A Questionnaires.	A, B, C, D & E
Lessons learnt & policy recommendations	Synthesis paper for each of the 8 case study countries under preparation.	A, B & C
Dissemination activities to raise awareness	17,000 website users; 500 recipients of the Newsletters; 400 social media followers	A, B, C, D & E

STANDARDISED TRIPLE-A TOOLS

TRIPLE-A

Key elements to pave the way for identifying and financing Triple -A investments and materialize the Triple -A approach

- **Risks** and **maturity** of investments Evaluation .
- **EU Taxonomy compliance**: Comprehensive analysis of EU Taxonomy eligibility criteria presented to investors .
- **113** EE financially attractive **projects collected**.

- **Benchmarking** of investment ideas based on **Financial** , **Risk** and **SDG** indicators .
- Electre -Tri **Multicriteria** Decision Analysis .
- **Categorisation** of projects into 3 Classes (Triple -A, Reserved , Rejected).
- **50-80 Triple -A** EE projects .

- **Requests** for Green Loans, Mortgages, Green Bonds & Energy Efficiency Auctions.
- **Matchmaking** between bankable EE projects and financing schemes .
- **Pathways** to achieve project delivery (contracts, underwriting procedures, etc .).
- Elaboration of **50 Project Fiches**.
- Submission of promising energy efficiency projects to related **European platforms** for strategic investments .

toolbox.aaa -h2020.eu
aaa -h2020.eu/tools

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DATABASE ON EE FINANCING

DATABASE
on Energy Efficiency Financing

TRIPLE-A

Data on critical **aspects** of EE financing

- Implementation **risks** of EE projects.
- Risk **mitigation strategies** (more than 15).
- **Preferences** of investors on EE investments.
- **Financial performance** of successfully implemented EE projects.
- Financing **models** and **instruments**.
- Necessity of boosting EE per case study country and sector based on **SDG indices**.

www.database.aaa -h2020.eu
www.aaa-h2020.eu/database

- **Data** about the **8** Triple-A case study countries.
- **Updated content** on a regular basis.
- **Bottom-up procedure**, incorporating data from stakeholder consultation.
- **480** Database users until now.

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TRIPLE-A IN NUMBERS...

TRIPLE-A

- 115 Energy Efficiency project ideas collected for evaluation through the Tools.
- 723 stakeholders identified, 65 bilateral meetings with 74 participants.
- More than 100 stakeholders signed up and tested the Triple-A Tools.
- Synergies with 50 relevant H2020 EU projects and relevant institutions.
- 4 Triple-A Questionnaires with 198 responses.
- 17 scientific publications in conferences and/or published in journals (4 of them under review).
- 21 Non-scientific and non-peer-reviewed publication (popularised publication, articles, blogs, etc.)
- 20 Triple-A Newsletters and Press Releases distributed to almost 500 subscribers; Promotion of Triple-A through 22 non-consortium Newsletters (e.g. IEECP, INZEB, EENVEST, NOVICE, ICCEE, DEESME, SPEEDIER, etc.)
- Organisation of 15 Triple-A event and Participation in 71 workshops / events / webinars on energy efficiency financing.
- More 94 Dissemination and Communication materials (banners, templates, QR codes, brochures, flyers, leaflets, factsheets, infographics, videos, etc.).

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VISIT OUR TOOLS

TRIPLE-A

Database on EE Financing

https://database.aaa -h2020.eu

https://aaa -h2020.eu/database

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Standardised TripleA Tools

https://aaa-h2020.eu/tools

https://toolbox.aaa -h2020.eu

Enhancing at an Early Stage the Investment Value Chain of Energy Efficiency Projects

TRIPLE-A

Thank you!

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ICCEE

Improving Cold Chain Energy Efficiency
in food and beverage sector

Project Coordinator: Simone Zanoni, University of Brescia,
simone.zanoni@unibs.it

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847040

ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

Mission of the ICCEE project

Facilitation
- Promote the dissemination of energy efficiency measures within the cold chains in the food and beverage sector with a focus on SMEs through the provision of tools and interactive formats

Holistic perspective
- Holistic project approach that goes beyond an individual company perspective to entire supply chains, whereby overarching potentials for action are to be identified and better leveraged

Accelerate investments
- Using the developed formats, the project aims to accelerate the implementation of energy efficiency opportunities through actual investments.

Two perspectives

55

ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

THE PROJECT IN STEPS

Model design and monitoring
The formulation of a model that incorporates the economic, technical and behavioural aspects of improving industrial energy efficiency, and subsequently its optimisation complemented with activities to monitor progress at the level of companies and their supply chain;

Tool development
The creation of a practical tool for users based on the model previously formulated that assists companies in estimating the potential cost and (energy and non -energy) benefits of improving their energy efficiency by considering the existing implementation barriers and that allows using benchmarks for performance comparisons;

Tool validation
The validation of the tool based on data collected from a sample of representative users/companies and their supply chain that belong to cold chains in the food and beverage sector;

Capacity building activities
The implementation of capacity building activities through training activities that integrate the use and outcome of the application tool, pilot seminars, gamification, workshops and the development and testing of an e -learning concept;

Sharing and exploiting results
The communication, dissemination and exploitation activities to reach a wide audience group and to spread the outcomes of the project.

ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

2 Pillars

Allow users to estimate the energy & environmental performances of a supply chain and its actors and provide:

- suggestions for specific EEM investment
- benchmarking
- what-if analysis

TOOL

DEVELOP AND APPLY AN **ANALYTICAL ENERGY EFFICIENCY TOOL** TO SUPPORT AND **FACILITATE INVESTMENT DECISION-MAKING**

CAPACITY BUILDING PROGRAMME

A **CAPACITY BUILDING PROGRAMME** AND CREATING A **COMMUNITY TO ACCELERATE CHANGE** IN THE ENERGY CULTURE OF THE FOOD & BEVERAGE SECTOR

4 main themes:

- Supply chain management
- LCA and LCC
- NEBs and behavioural aspects
- Financial aspects and funding opportunities

ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

National trainings

Country	Responsible	Supported by	Workshops	Overall participants
Italy	SPES/GEIE	UNIBS	1	299
The Netherlands	IEECP	*Contact FNLI*	2	86
Germany	ADELPHI	Fraunh. /UniStutt	4	199
Greece	ANEPKO	SPES (SEVT)	3	236
Spain	ESCAN	SPES (FIAB)	2	143
Italy	FIRE	UNIBS	2	174
France	ATEE	SPES (ANIA)	1	94
Romania	Romalimenta		1	88
Latvia	RTU		2	170

18
WORSHOPS
1489 participants

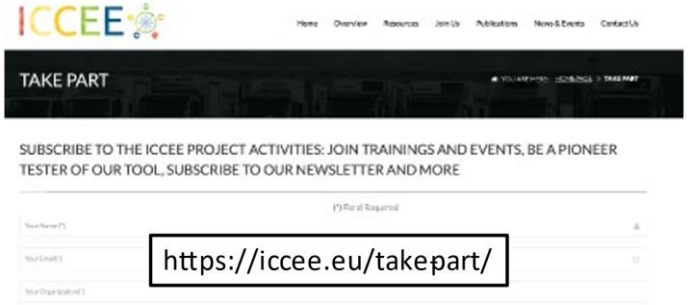
ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

Industry Informative Network

Benefits for companies

Companies that participate in ICCEE can:

- learn about their potential to improve energy efficiency and the non-energy benefits of energy efficiency.
- compare themselves with the supply chain energy performance of other companies and understand the opportunities energy efficiency measures bring for their companies.
- participate in the capacity building programmes that involve training and learning activities.



ICCEE
Improving Cold Chain Energy Efficiency in food and beverage sector

Partners and contact

ECSLA European Cold Storage and Logistics Association
SPES Spread European Safety
RA ROMALIMENTA
ΑΝΑΠΤΥΞΙΑΚΗ ΕΠΙΜΕΛΗΤΗΡΙΟΥ ΚΟΡΙΝΘΙΑΣ
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escan s.l. the energy consulting
IEECP
adelphi
Fraunhofer ISI
University Stuttgart IER Institute of Energy Economics and Rational Energy Use
atee

iccee_h2020

www.iccee.eu

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreem ent N. 847034

Romania Pilot targets

KPI	Performance
35 SMEs engaged	41
SPEEDIER Experts engaged	8 trainers + 12
ECMs implementation signed	41
4,645 MWh/year Primary Energy savings	4,723
648 tCO2/year reducing	1,143
4-15 kEuro/SME EE Investment Target	745 (total 41 SMEs)
40 Trained Staff target	266 (only 27 SMEs)

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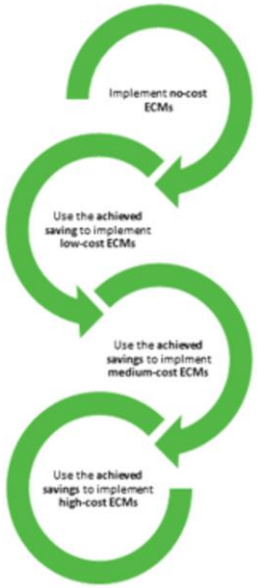

ECMs

- **Energy Consumption monitoring**
- **Information to guests**
- **Staff training**
- **Hot water -saving:** low-flow devices have been installed in the hotel rooms
- **Windows insulation**
- **Building insulation**
- **Integration of renewable energies:** domestic hot water from solar (forthcoming)
- **Integration of renewable energies:** electricity from PV solar sources (forthcoming)

Ireland Manufacturing SMEs and their products

1. Alltech - Animal Feeders
2. Carlow Brewing - Beers
3. P.B Machinetech - Hydraulic cylinder
4. Modular Auto – Robotics
5. Novostrat – Polyethylene foam
6. St Tola - Goats Cheese products
7. Taylormade - framed glass windshield
8. Tipp Glass – Glass Partitions
9. Torc – Brew beers and whiskey
10. Valentia Slate – Slate quarry
11. Walsh Packaging – Paper bags
12. Laois Brewery - Beer

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreem ent N. 847034

Ireland SMEs

Valentia Slate

Tipperary Glass

Torc Brewing

Taylormade Glass

Alltech/Keenan
Diet Feeders

St TOLA Goats
Cheese

Modular Automation

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreem ent N. 847034

Irish Pilot Success

- Very enthusiastic engagement between all SMEs and the SPEEDIER service
- Most time was spent conducting energy assessments and developing the initial ECMs to make them ready to implement, including researching funding options
- Some ECMs were started, but the many were not due to lack of time, lack of final commitment or other factors affecting the SME
- SMEs said they enjoyed working with the SPEEDIER Service and want to stay in contact for other EU funded projects or programmes.
- We learned a lot from these SMEs
- All targets were met!

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Irish Pilot: Sign -Off Sites

Site	ECM Spend (€)	Est Savings	Primary Energy Saved (MWh/yr)	Final ECM Savings (kWh)	Electrcity Savings	Fossil Fuel Savings	ECM Savings (€)	TCO2	Number of SMEs Involved	Number of Staff Trained	ECM Major
Alltech	197,672	35%	1,891,617	1,033,671	1,033,671	0	155,050	335	1		Lighting, Compressor
Carlow Brewing	-								1		Heat Exchanger
P.B Machinetech									1		Heating Systems
Modular Aut	54,340	21%	437,502	265,745	116,716	149,028	22,682	68	1		Lighting, Behavioural Change, Heating
Novostrat									1		
St Tola	6,425	39%	55,060	43,537	17,973	25,564	4,442	13	1	6	LPG, Ice Bank, Seals,
Taylormade									1		Compressor, Boiler, Heat Recovery
Tipp Glass	31,412	6%	191,124	143,477	35,631	108,206	15,019	40	1	16	HGV and Heating
Torc									1		Plate Heat exchanger
Valentia Slate	-	38%	38,978	66,050	0	66,050	1,010	16	1	4	New Saw
Walsh Packaging	33,777	12%	124,779	79,774	43,705	54,147	11,097	23	1		Heating system
Laois Brewery									1		Heat Exchanger
DigiECO	0%	0		0			0	0	24	41	Capacity Building and Training Digital and Green
Total	373,626	18.9717%	2,739	1,632	1,248	403	209,300	495	12	67	
Revised Target	1-15k	14%	720					99	10	65	

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Ireland Pilot Impacts

Ireland			
Parameter	**Revised Target**	**Ireland Actual**	**Difference**
Primary Energy (MWh/yr)	720	2739	2019
Investment Target (€ 000s)	1-15k	624	609
Cost Savings (€/year)	-	209	-
Tco2 Saved / year	99	496	397
SMEs Targets	10	12	2
Trained Staff target	65	67	2

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Impact Analysis
Italy KPI Dashboard

Italy			
Parameter	**Revised Target**	**Italy Actual**	**Difference**
Primary Energy (MWh/yr)	650	1.215	565
Investment Target (€ 000s)	8-28k	47	19
Tco2 Saved / year	110	301	191
SMEs Targets	10	10	0
Trained Staff target	50	45	-5

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SPEEDIER Service implementation in Italy

Activities

- Engagement of **10 SMEs** through the collaboration with ESCO
- The ESCO are supporting the SMEs in the implementation process of energy conservation measures, promoting the **ring-fencing mechanism** and exploiting SPEEDIER concepts, tools and knowledge
- Dissemination of SPEEDIER service to the SMEs staff in order to enlarge the awareness on the project and the **importance of energy efficiency**

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SPEEDIER Service implementation in Italy

Conclusions

- **Implementation** of the service (and ECMs) is still **on-going**: the Covid-19 contingency impacts on the priorities of SMEs and some ECMs require significant structural changes of facilities
- **All the revised target parameters have been reached**, with the exception of trained staff which is slightly under the target, but likely to be increased in the last weeks of the project
- The commitment of SMEs goes beyond the end of the project

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SPEEDIER Service implementation in Spain

PCT CARTUJA

Science and Technology Park Cartuja

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A Y C Sinergias	CENIT	Extravaganza
Algenio	Civile	HG Control
Amarna Therapeutics	Crear Página eweb	Ingelectus
Ariddad Therapeutics	Digital Jurado	Insai
Arqueología y Gestión	E2k2 Netechnology	Nextu Formación
Arquitectos del Sur	EASY PVF	Saergy
Biogold Network	Eman Ingeniería	TeamBIMCivil
Castaño y Asociados	Ennde 3D	Woodswallow

- ✓ Replacement of lighting equipment by led.
- ✓ Investment: €33.162.
- ✓ TCO2 saved: 72.
- ✓ Costs savings: 6.684 € /year

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Pilot 1

25,92 % energy savings 2019 – 2021
(same period January – September)

SPEEDIER

Performance

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Pilot 2

CELGENE
Anafocus - Teledune
Scalpers
ACSA
Plexus
Magtel
UNYQ
Fundación Magtel
Bitmakers
Nunsys

- ✓ Estimated investments: €859,737.
- ✓ Savings KW: 909,527 Kw.
- ✓ TCO2 saved: 289,62.
- ✓ Costs savings: 84,076 €

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KPIs

Parameter	PERFORMANCE
34 SMEs participating in pilot	✓ Pilot1: 24 SMEs Pilot1 ✓ Pilot2: 10 companies
40-50 (global)	✓ 20 expertsandtrainers
Energy savingsof 342 MWh/yr	**Pilot 1**. 294 MWh/yr **Pilot 2**. 909 MWh/yr
Greenhouse gas savings84 tCO2/yr	**Pilot 1**. 73 tCO2/yr **Pilot 2**. 290 tCO2/yr
Investment inenergy efficiency measures per business: between €1k and €5k	✓ **Pilot 1**. 33.162 €
150 employees from the participating SMEs receiving capacity building training	**Pilot 1**. 98 employees **Pilot 2**. 346 employees

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Capacity Building Training for SMEs

01

Importance of Energy Assessment and metering

02

Build energy culture and behavioural change

03

Develop energy awareness

04

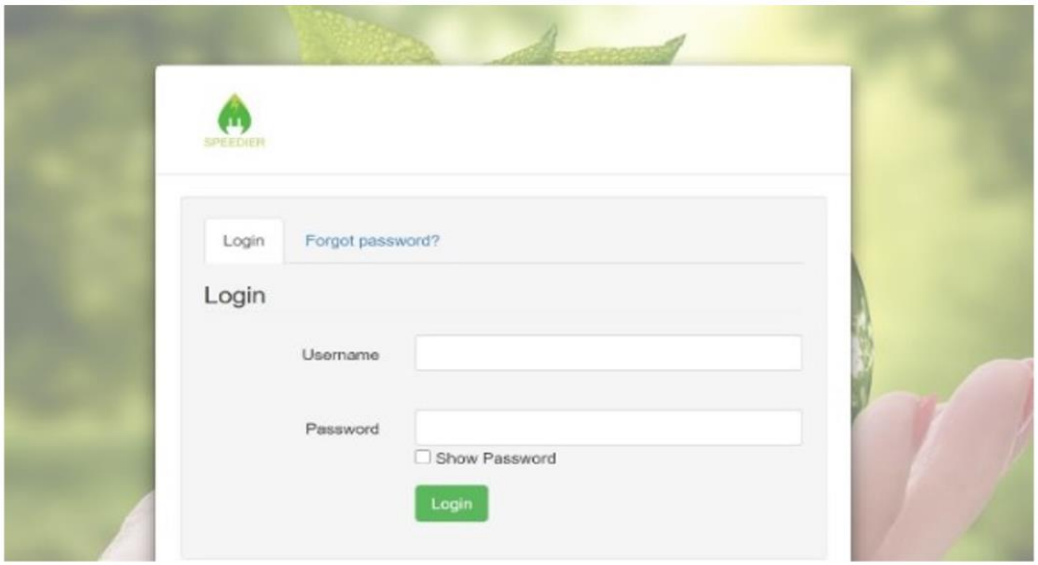
Encourage general employees to contribute

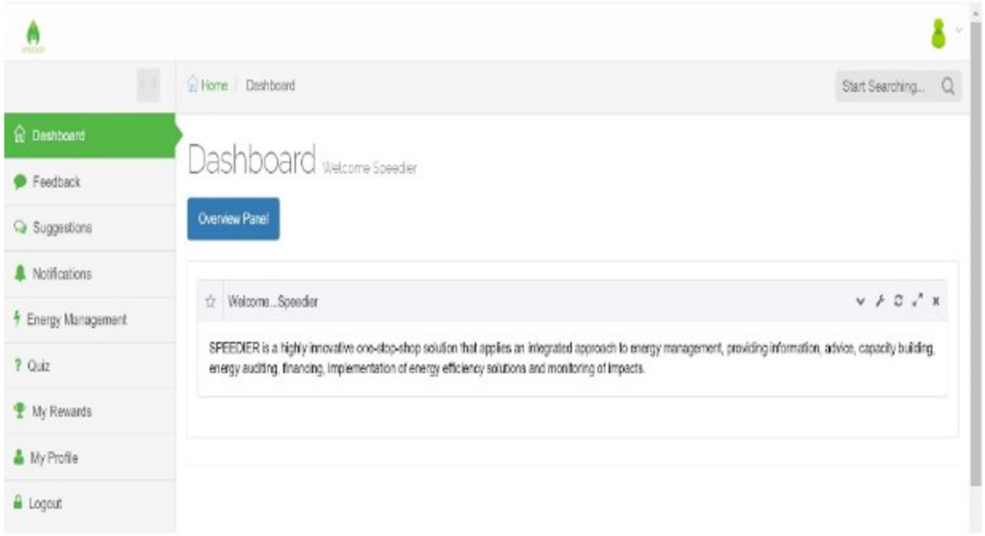
Why a mobile app?

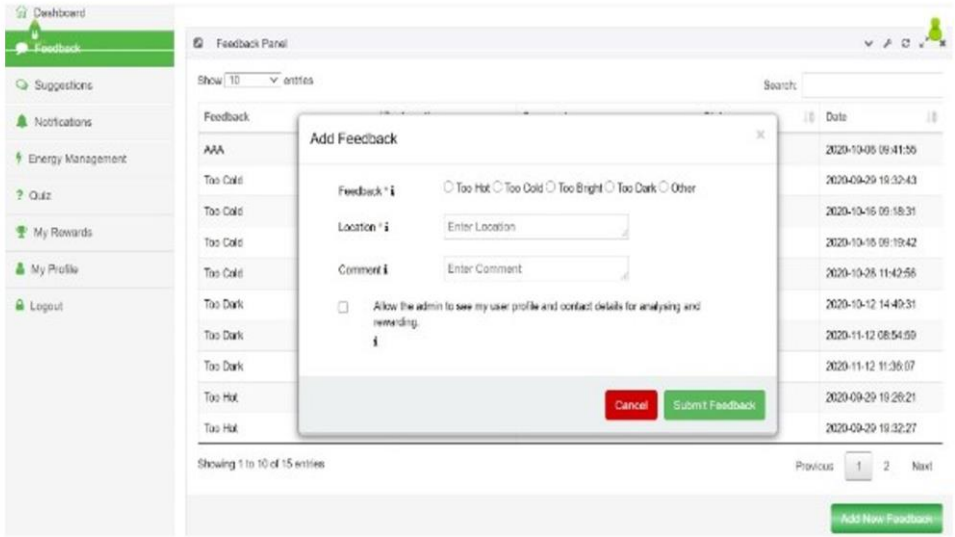
- Engagement of all staff
- Build energy culture
- Sustain contact through gamification
- Easy provision of information

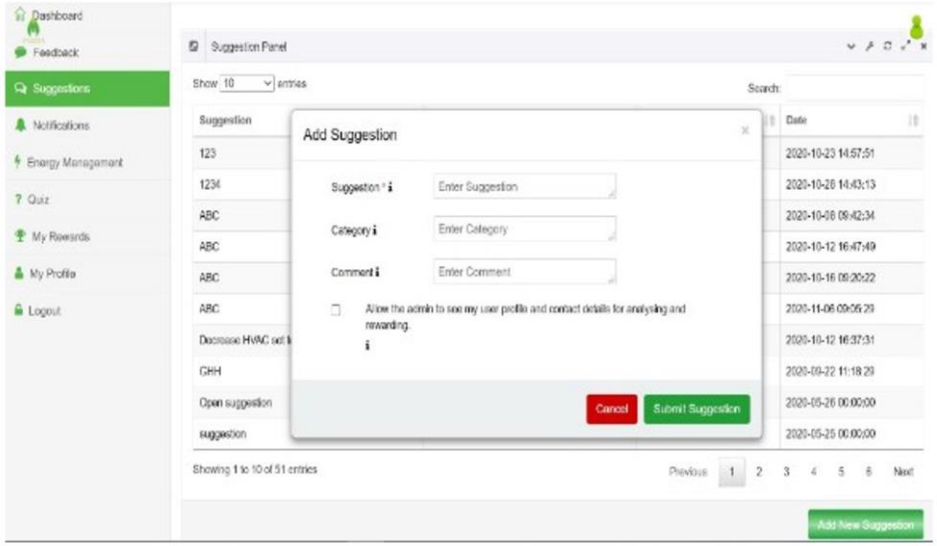
MAIN FEATURES

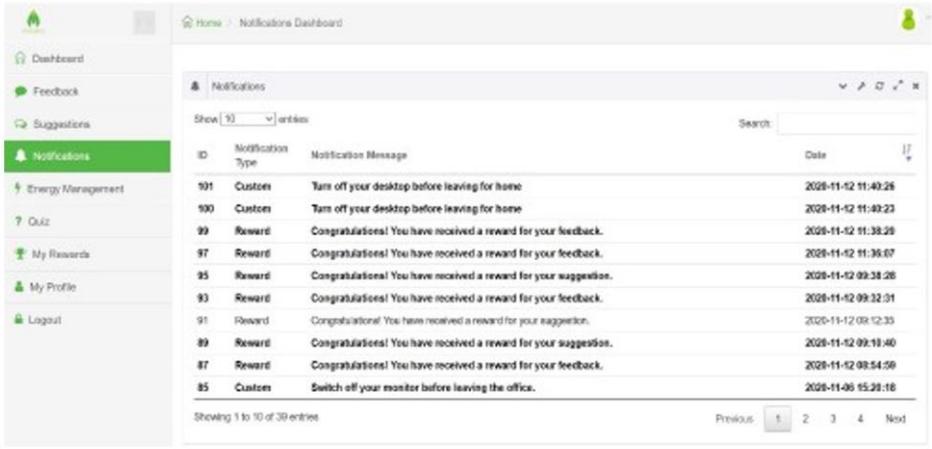
SPEEDIER

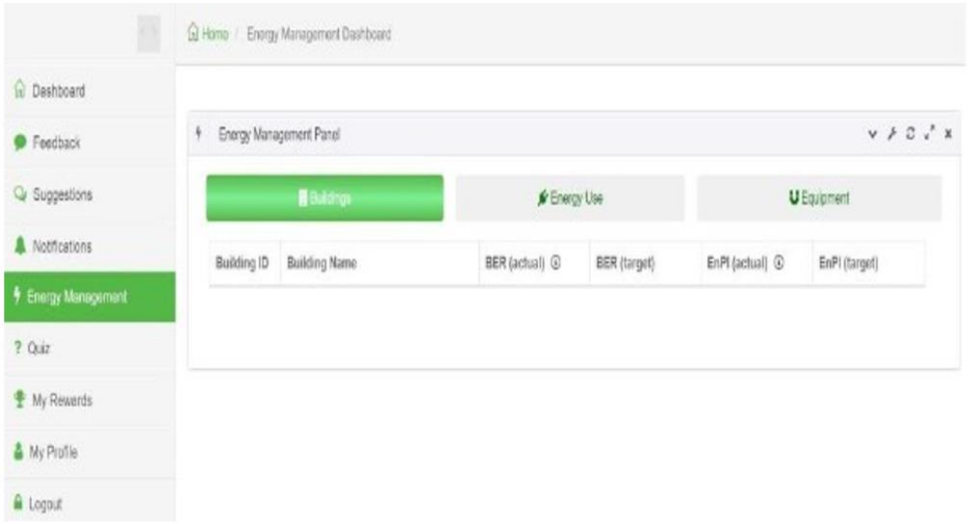

SPEEDIER
Login
Forgot password?
Login
Username
Password
Show Password
Login

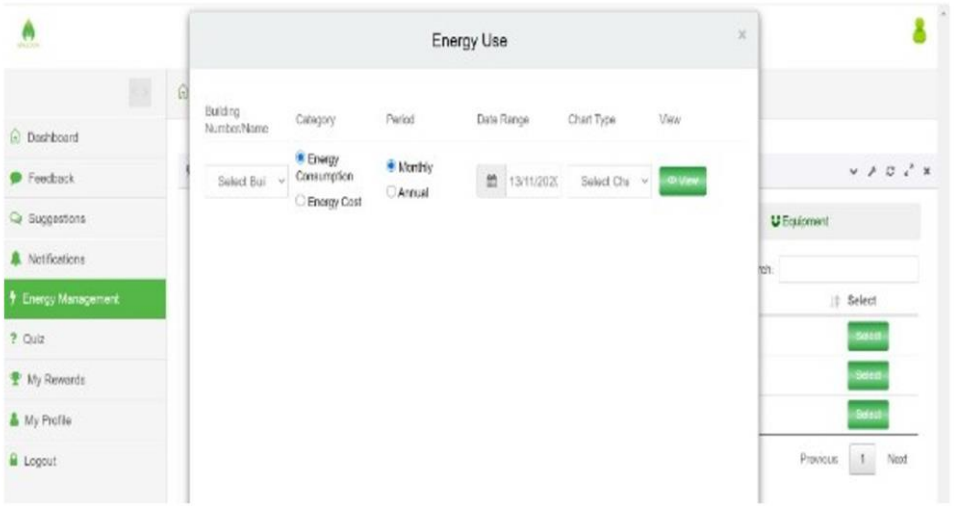

Home / Dashboard
Start Searching...
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Dashboard Welcome Speedier
Overview Panel
Welcome...Speedier
SPEEDIER is a highly innovative one-stop-shop solution that applies an integrated approach to energy management, providing information, advice, capacity building, energy auditing, financing, implementation of energy efficiency solutions and monitoring of impacts.

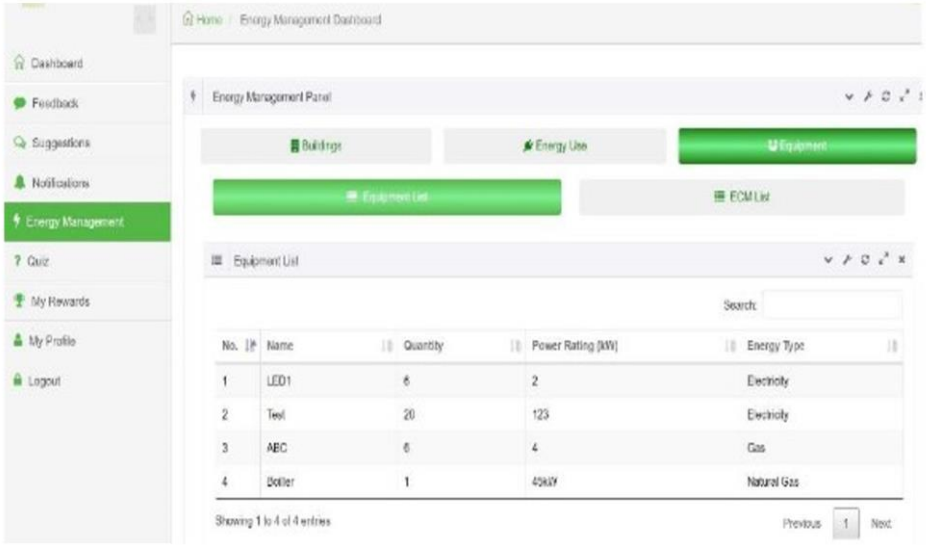

Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Feedback Panel
Show 10 entries
Search:
Feedback
Date
AAA
Too Cold
Too Dark
Too Hot
Add Feedback
Feedback *
Too Hot Too Cold Too Bright Too Dark Other
Location *
Enter Location
Comment
Enter Comment
Allow the admin to see my user profile and contact details for analysing and rewarding.
Cancel
Submit Feedback
Showing 1 to 10 of 15 entries
Previous
1
2
Next
Add New Feedback


Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Suggestion Panel
Show 10 entries
Search:
Suggestion
Date
123
2020-10-23 14:57:51
1234
2020-10-28 14:43:13
ABC
2020-10-08 09:42:34
ABC
2020-10-12 16:47:49
ABC
2020-10-16 09:20:22
ABC
2020-11-06 09:05:29
Decrease HVAC set t
2020-10-12 16:37:31
GHH
2020-09-22 11:18:29
Open suggestion
2020-05-26 00:00:00
suggestion
2020-05-25 00:00:00
Showing 1 to 10 of 51 entries
Previous
1
2
3
4
5
6
Next
Add New Suggestion
Add Suggestion
Suggestion *
Enter Suggestion
Category
Enter Category
Comment
Enter Comment
Allow the admin to see my user profile and contact details for analysing and rewarding.
Cancel
Submit Suggestion


Home / Notifications Dashboard
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Notifications
Show 10 entries
Search:
ID
Notification Type
Notification Message
Date
101 Custom Turn off your desktop before leaving for home 2020-11-12 11:40:26
100 Custom Turn off your desktop before leaving for home 2020-11-12 11:40:23
99 Reward Congratulations! You have received a reward for your feedback. 2020-11-12 11:38:28
97 Reward Congratulations! You have received a reward for your feedback. 2020-11-12 11:36:07
95 Reward Congratulations! You have received a reward for your suggestion. 2020-11-12 09:38:28
93 Reward Congratulations! You have received a reward for your feedback. 2020-11-12 09:32:31
91 Reward Congratulations! You have received a reward for your suggestion. 2020-11-12 09:12:35
89 Reward Congratulations! You have received a reward for your suggestion. 2020-11-12 09:10:40
87 Reward Congratulations! You have received a reward for your feedback. 2020-11-12 08:54:59
85 Custom Switch off your monitor before leaving the office. 2020-11-06 15:28:18
Showing 1 to 10 of 39 entries
Previous 1 2 3 4 Next


Home / Energy Management Dashboard
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Energy Management Panel
Buildings
Energy Use
Equipment
Building ID
Building Name
BER (actual)
BER (target)
EnPI (actual)
EnPI (target)


Energy Use
Building Number/Name
Category
Period
Date Range
Chart Type
View
Energy Consumption
Energy Cost
Monthly
Annual
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Equipment
Select
Previous
Next


Home / Energy Management Dashboard
Dashboard
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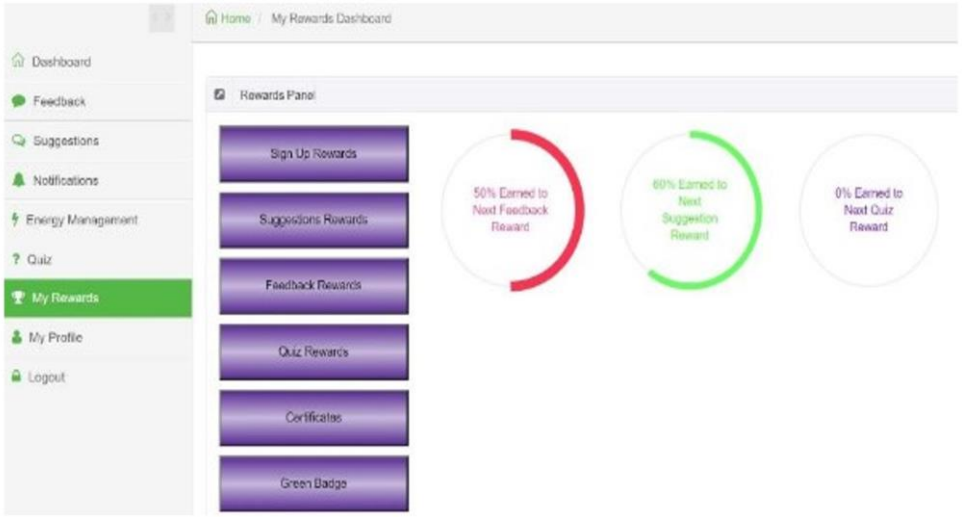
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Energy Management Panel
Buildings
Energy Use
Equipment
Equipment List
ECM List
Equipment List
Search:
No.
Name
Quantity
Power Rating [kW]
Energy Type
1 LED1 6 2 Electricity
2 Test 20 123 Electricity
3 ABC 6 4 Gas
4 Boiler 1 45kW Natural Gas
Showing 1 to 4 of 4 entries
Previous
1
Next

Home
Quiz Dashboard
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Take Quiz
Quiz History
Learning
General Quiz
Equipment Quiz
Home Energy Quiz
Best Scores
Leaderboard


Home / My Rewards Dashboard
Dashboard
Feedback
Suggestions
Notifications
Energy Management
Quiz
My Rewards
My Profile
Logout
Rewards Panel
Sign Up Rewards
Suggestions Rewards
Feedback Rewards
Quiz Rewards
Certificates
Green Badge
50% Earned to Next Feedback Reward
60% Earned to Next Suggestion Reward
0% Earned to Next Quiz Reward

Energy expert support tool

- Advanced tool able to identify opportunities for ECMs within SMEs to streamline the energy auditing process.
- The tool is an online system where SPEEDIER Experts input information on the participating SME, and the tool automatically suggest a number of suitable energy conservation measures (ECMs).
- In the tool there's a follow-up of the application of the measures and the savings values.
- The tool is capable of collecting the information on real savings to improve the data in the database that provides theoretical data.
- Link on Speedier website

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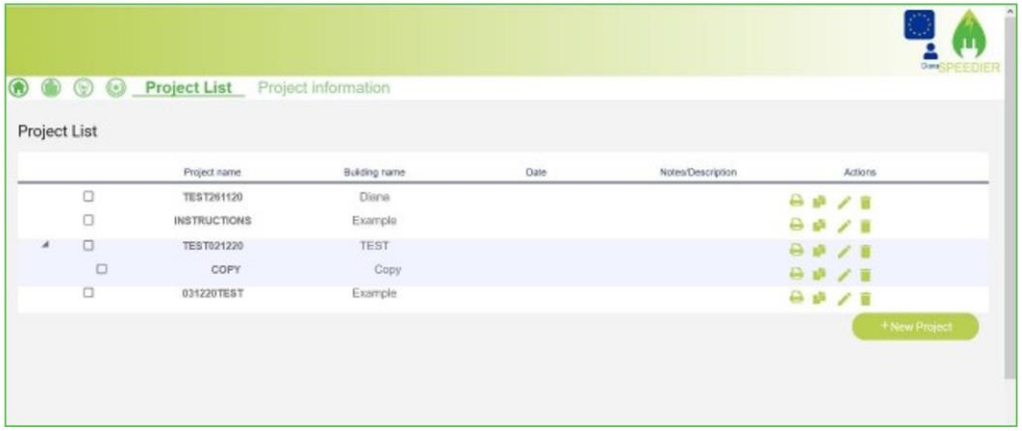
Main menus



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Project information

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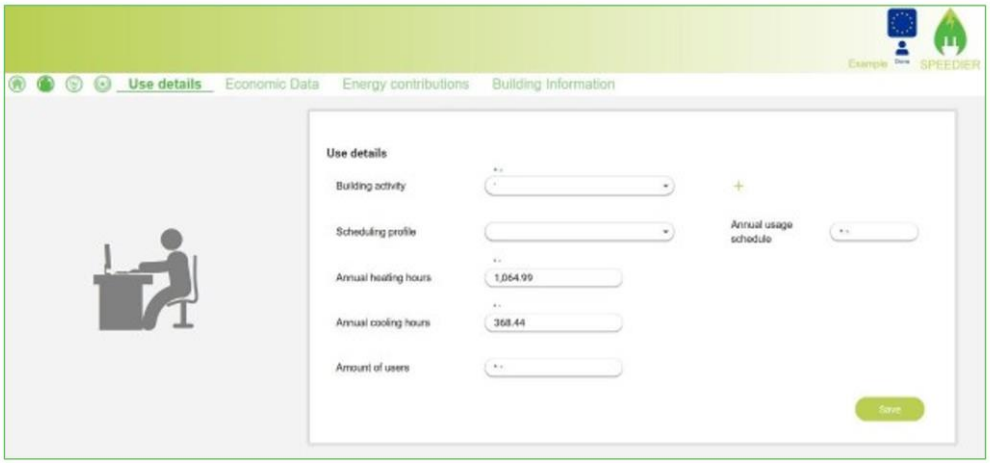
Building Information – Use details



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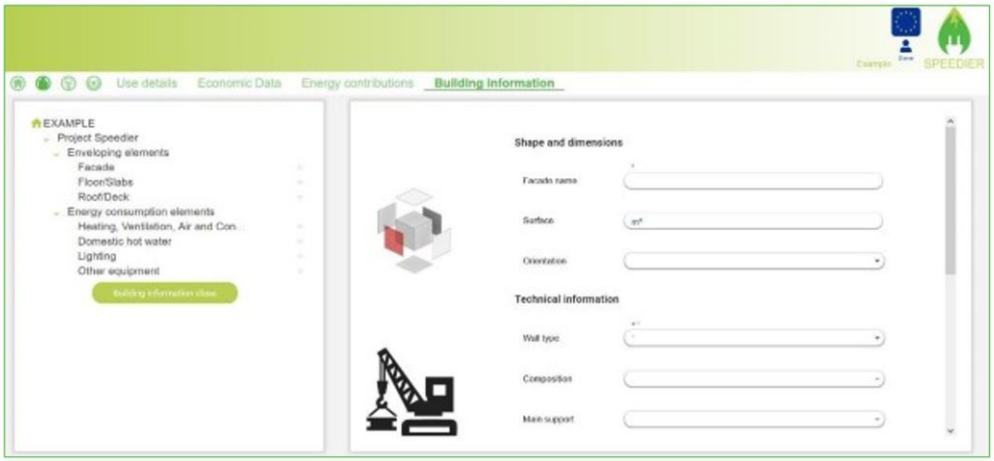
Building Information



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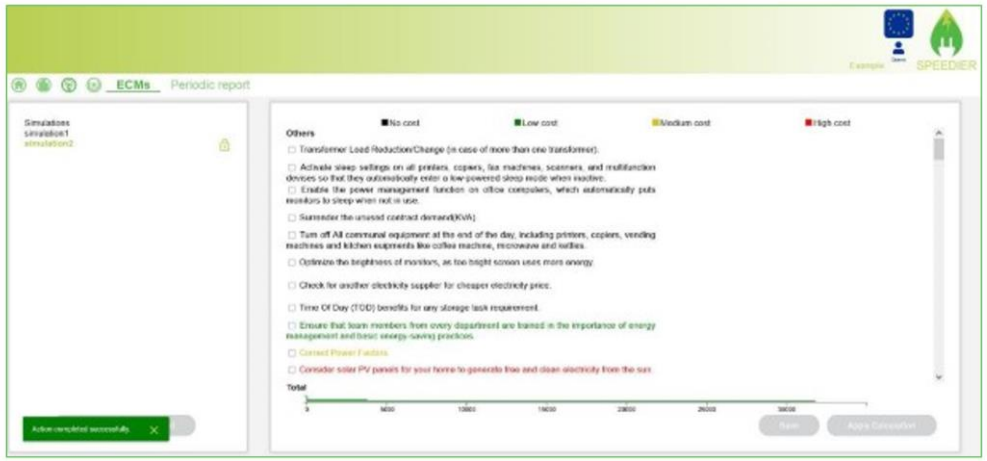
Measures



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Periodic Report

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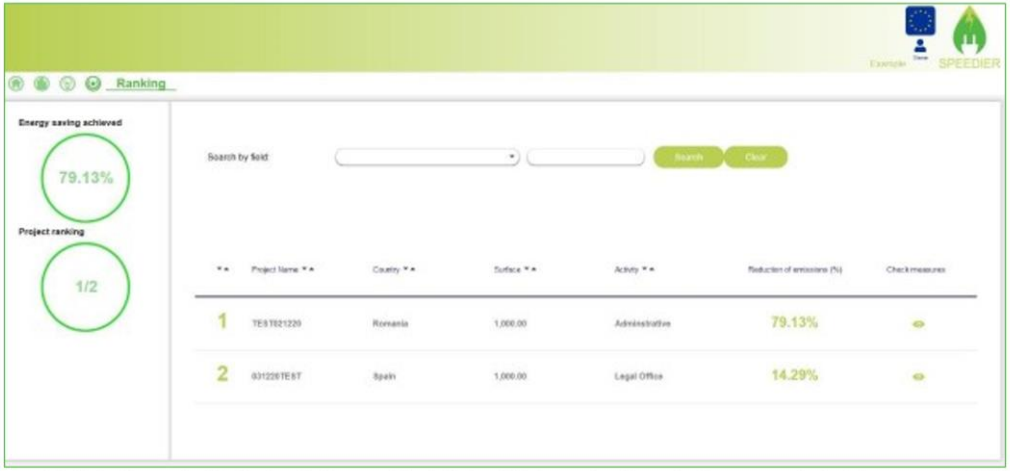
Ranking



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SPEEDIER

Training for experts & SMEs

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T4.3: SME Training

6 modules

1. Climate Change & Energy Management
2. Behavioural Change and Ring Fencing Mechanism
3. Transport
4. SPEEDIER Service and Energy Pyramid
5. Funding Options & ECM Evaluation
6. Engineering Calculations

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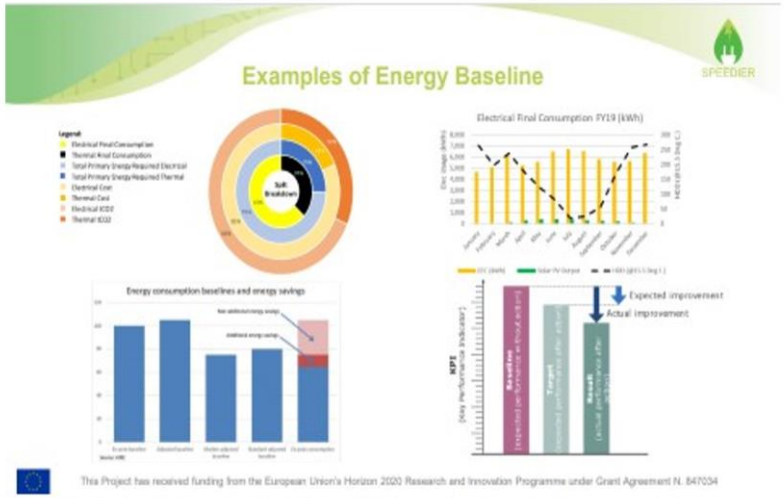
Module 1 – Climate Change & Energy Management



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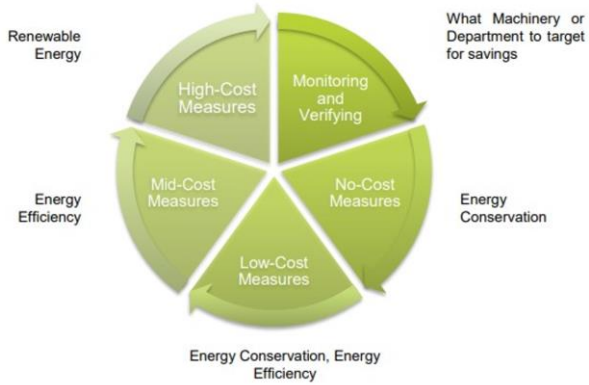
Module 2 – Behavioural Change & Ring Fencing Mechanism

Ring Fencing Mechanism



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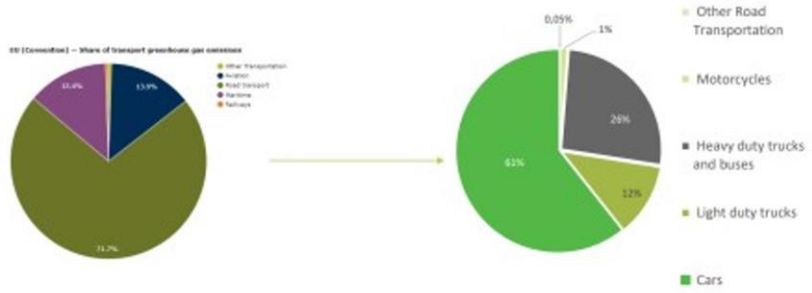
Module 3 – Transport

CO_2 emissions

Cars are the top Transport Carbon Emitter in Europe!



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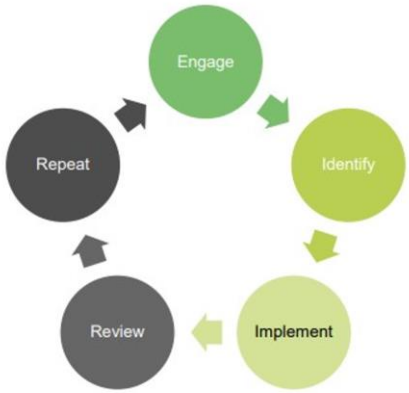
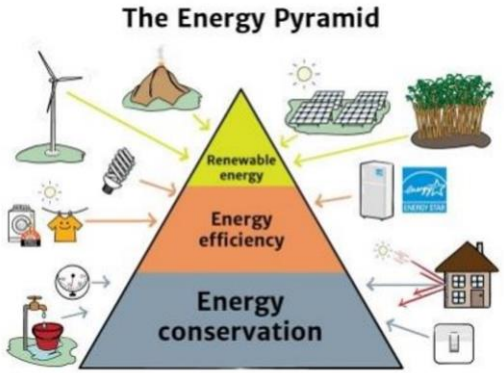
Module 4 – SPEEDIER Service & Energy Pyramid





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Module 5 – Funding Options and ECM Evaluation

SEAI Funding Options

Funding name	Description	Details
Energy Efficiency Obligation Scheme (EEOS)	Energy Suppliers pay for your energy upgrades and the savings from this upgrade will be used by the Supplier to get energy credits.	Link
EXCEED	From Design stage to implementation, help is given by SEAI.	Link
Project Assistance Grants	Can provide you with a feasibility study and an Energy Project or Final business case and project delivery support grant.	Link
Accelerated Capital Allowance	Based on Triple E register of equipment, company that pays corporation tax in Ireland to deduct the full cost of the equipment from their profits in the year of purchase.	Link
Support Scheme for Renewable Heat	Incentivise the development and supply of renewable heat. Installation costs and operating support is available	Link
Energy Contracting	It's a 'pay for performance' approach to installing and operating energy technologies in your business. 50% of cost up to €7,500	Link

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Module 6 – Engineering Calculations

Power & Energy Basic Knowledge

Power Factor Details

- Information on your reactive (kVarh), true (kW) and apparent (KVA) powers are on your electricity bill.
- Your MIC is the amount of apparent power you can draw at any time. (KVA)
- Reactive Power is not useable for Work.
- So the higher your reactive load, the less of your electricity is useable.
- Power Factor fluctuates second to second.

Correcting Power Factor

- Upgrading or replacing inductive loads that do not operate close to their design capacity
- Local power factor correction at the load
- Centralised capacitive correction
- Static Var Generators (active power factor correction of lagging power factor)
- Active Power Filters (phase balancing, harmonic correction and active correction of leading and lagging power factor)
- The use of Variable Speed Drives (VSD) to control electric motors

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SME resources available on www.speedierproject.eu

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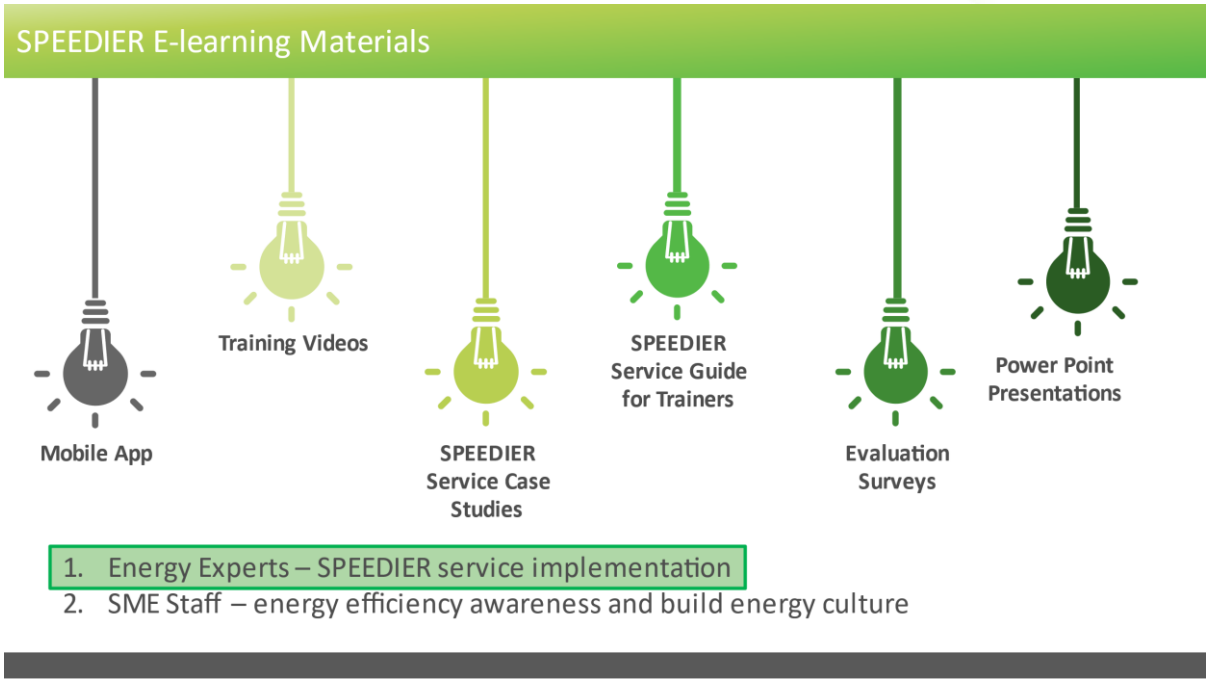
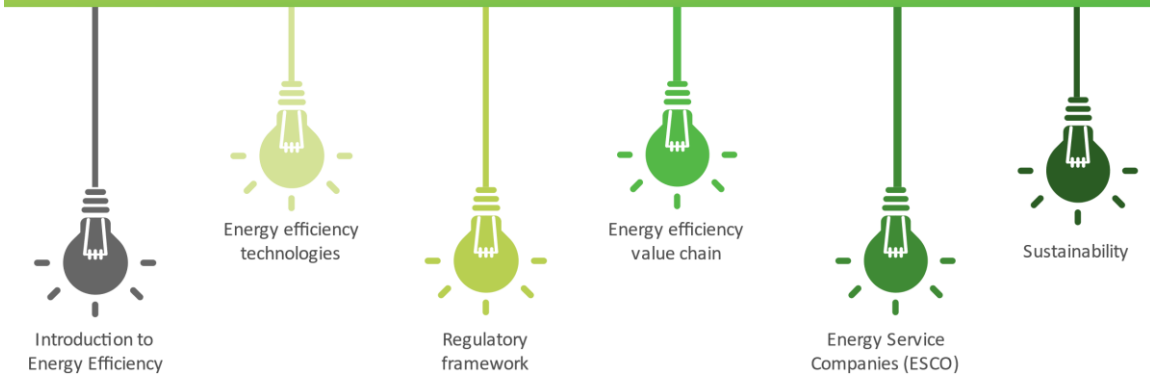

SPEEDIER E-learning Materials
Mobile App
Training Videos
SPEEDIER Service Case Studies
SPEEDIER Service Guide for Trainers
Evaluation Surveys
Power Point Presentations
1. Energy Experts – SPEEDIER service implementation
2. SME Staff – energy efficiency awareness and build energy culture

Energy Expert Training



- Content includes results from SPEEDIER pilot and advice on SPEEDIER service implementation
- The training content is available in English, Italian, Romanian and Spanish language.
- Education Kit for SPEEDIER Trainers: focused on providing teaching notes about how to effectively deliver training content to the SPEEDIER Experts

Energy Expert Training

- Two training events organised: **1st Training Event Agenda**

SPEEDIER

Wednesday, 2nd December 2020

10:00 - 10:05 | Event opening & welcome

10:05 - 10:35 | Introduction to the SPEEDIER Service

10:35 - 10:50 | Q&A

10:50 - 11:20 | Building an Energy Culture

11:20 - 11:30 | Q&A

11:30 - 12:00 | New approaches to overcoming the financial barriers to energy upgrading

12:00 - 12:15 | Q&A

12:15 - 12:30 | Event closing & Conclusions

SPEEDIER

Thursday, 3nd December 2020

10:00 - 10:05 | Event opening & welcome

10:05- 10:50 | SPEEDIER Tool for SPEEDIER Experts

10:50 - 11:05 | Q&A

11:05 - 11:35 | SPEEDIER Mobile App

11:35 - 11:55 | Impact Assessment

11:55 - 12:10 | Q&A

12:10 - 12:30 | Event closing & Conclusions

Energy Expert Training

- Two training events organised: **2nd Training Event Agenda**

Some figures about the 1st and 2nd SPEEDIER Training Events

210 Registered entities

and interested in the SPEEDIER project!

Rich variety of entities

- **51** SMEs
- **29** Universities
- **23** R&D Institutions
- **14** Associations/Agencies
- **10** Authorities/Governments
- **7** Clusters
- **12** Large companies
- **41** Energy Auditors
- **23** do not identify themselves with any of the previous categories

This Project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreem ent N. 847034

Conclusions

- **1st and 2nd SPEEDIER Training** were deemed positively by attendees.
- **SPEEDIER Service** was spread to more than **200 Experts** and **Trainers**.
- A **list (database)** have been created and are available in project's website with the **Experts and Trainers** who will continue spreading the word in the future about the **SPEEDIER Service**.

POLITECNICO MILANO 1863

CERTIFICATE OF ATTENDANCE

"SPEEDIER Service: A new approach to selling energy audits and energy efficiency advice"

POLITECNICO MILANO 1863

CERTIFICATE OF ATTENDANCE

To the SPEEDIER first training event entitled

"SPEEDIER Service: A new approach to selling energy audits and energy efficiency advice"

POLITECNICO MILANO 1863

CERTIFICATE OF SPEEDIER EXPERT

Of the SPEEDIER 2nd Training Event entitled

"SPEEDIER Service: A new approach to selling energy audits and energy efficiency advice"

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Barriers and recommendations to engage SMEs with energy experts

Lack of finance	Zero cost behavioural change actions Switching to better tariffs Free energy assessment Self-financing mechanism
Lack of regulation	To put the spotlight on business priorities rather than on energy savings, since implementing ECMs is not mandatory
Lack of in-house expertise on energy management	Outsourced energy management Engagement of staff at all levels of the organisation

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Additional recommendations for SPEEDIER Experts

- Engage with senior management at an early stage.
- Make SMEs understand the importance of energy management and energy efficiency along with non-cost benefits.
- SPEEDIER expert must remain neutral.

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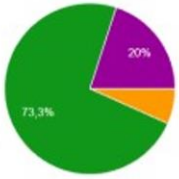
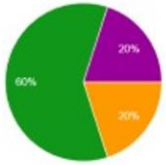
Survey Results

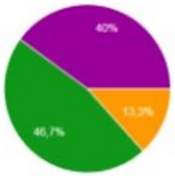
Has the SPEEDIER training increased your knowledge and skills related to energy efficiency and energy conservation?



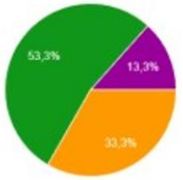
Do you think the SPEEDIER training has had an impact on your behavior?



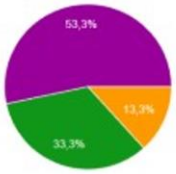
Do you consider yourself to be committed with the energy saving measures you have adopted, not only in your company, but also in your daily life?



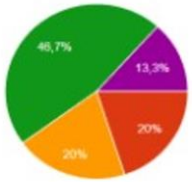
Do you consider that your awareness regarding energy savings has improved as a result of your experience with SPEEDIER?



Are you motivated to carry out this behavior transition?



Would you be willing to continue collaborating in the SPEEDIER program in the future (or other similar program) to augment your energy efficiency training?



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Replication Recommendation

- Success of the implementation of SPEEDIER in other EU jurisdictions depends a lot on different factors such as
  - The energy culture in the country, i.e., people awareness regarding energy efficiency and energy transition.
  - work conditions for SMEs in each country
  - Government regulations on energy audit and ECM implementation
- Free energy assessment or some other financial scheme
- Flexible and easy access of training
- SPEEDIER implementation will need to be tailored to the local environment

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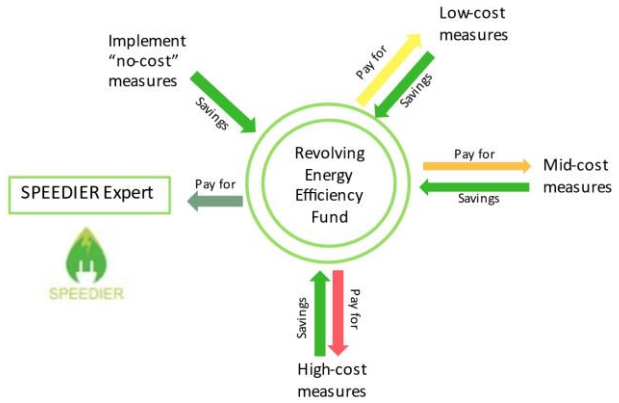
SPEEDIER's Ring-fencing mechanism



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SPEEDIER's Key Exploitable Results

1. Energy Expert Support Tool

It will work with a database of SME characteristics and no cost, low, medium, and high-cost solutions. This tool will also estimate the associated energy and cost savings for these measures

Energy agencies, SMEs & auditors

Provide the SPEEDIER expert with an on-site tool to become the SME Energy Manager, leaving the SME staff free to focus on other tasks

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SPEEDIER's Key Exploitable Results

2. Training and capacity building materials

a) Staff: General overview on the importance of managing energy efficiently for organizations, possible economic benefits, etc

b) SPEEDIER experts and trainers: Training and capacity building for senior managers and decision makers with techno-economic assessment of EE measures and evaluation of their impact in terms of profit margin.

SPEEDIER trainers/ experts

These capacity building and training materials will train SPEEDIER experts, but will also train future SPEEDIER trainers, which will be able to provide training to future SPEEDIER experts.

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SPEEDIER's Key Exploitable Results

3. SPEEDIER App

Awareness and capacity building tool to be used by employees of organizations using the SPEEDIER service and for the general public.

Energy agencies, SMEs & auditors

Support tool with awareness and capacity building content, which can help in achieving the first step on energy saving, which is awareness zero-cost ECMs.

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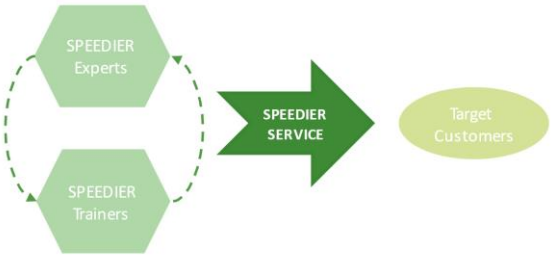
SPEEDIER Business Models



The one-stop-shop solution is expected to solve several of the SMEs initial barriers to implement energy audits and energy efficiencymeasures.

This will also be a further motivationto reach the energy efficiencygoals set for EU member states in the coming years.

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SPEEDIER Business Models

All services available on -demand through the SPEEDIER website

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ABOUT THE PROJECT

SPEEDIER is a highly innovative one stop-shop solution that applies an integrated approach to energy management, providing information, advice, capacity building, energy auditing, financing, implementation of energy efficiency solutions and monitoring of impacts.

Standards in practice

Invisible but is everywhere to make life easier.

A4 paper
EN ISO 216

Wind energy generation systems
IEC 61400

EN 14351 -1:2006 Windows and doors - product standard, performance characteristics

ISO 50001: Energy Management Standard

Directives: European Energy Performance of Building Directive

nZEB: Near Zero Energy Building
This means that any buildings completed after these dates should achieve the standard irrespective of when they were started.

*ISO, IEEE, **CEN/CENELEC**, ETSI, etc.*

EN IEC 63052:2021
Power frequency overvoltage protective devices (POPs) for household and similar applications.

UNE, NEN, DIN, NSAI, etc.

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ISO50001 was first published in 2011 to assist organisations in implementing structured, sustainable Energy Management Systems (EnMS) to **deliver savings in energy, emissions and money**. To date in excess of 20,000 organisations have successfully implemented systems that have been certified to ISO50001.

A US study found that companies which implemented EnMS compliant with ISO50001, delivered **average savings of 10%** within 18 months with a 2 year payback for companies spending > €1.5m on energy annually. Notably, **75% of the savings delivered were low cost measures requiring no capital investment**

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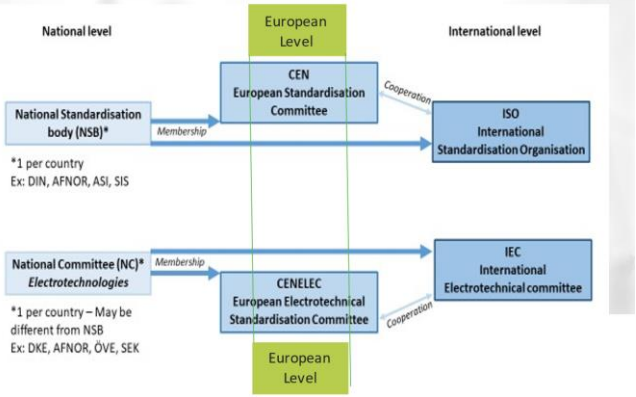

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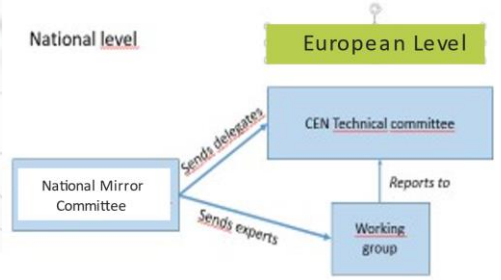


European Level Standards

CEN/CENELEC

Who are they?

- Aim to provide professional, neutral, **independent platform for stakeholders** to come together and reach a consensus at European level.
- There to help ensure that the system respects the principles of **transparency, openness, coherence, consensus** as laid down by the World Trade Organisation.
- Support established Technical Bodies in the development of their **standardization / pre-standardization** deliverables.

How to get involved?

- Screen existing standards.
- Join an existing standardization community.
- ➢ **Revise an existing European standard or develop a new one.**
- ➢ Fast track to new standardization.

European Level Standardisation
So called fast–track to new standardization

CEN/CENELEC :
A EU-recognized body with experience in building understanding between stakeholders from various countries and backgrounds.

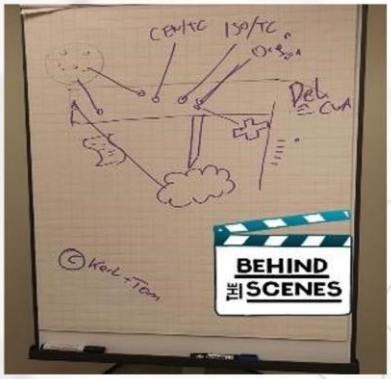
Workshop:
A framework to exchange and work for the delivery of a publicly available referenced document from CEN Members National Standard Bodies. A CEN Workshop Agreement (commonly abbreviated CWA), by definition, is not an official standard from the member organizations.

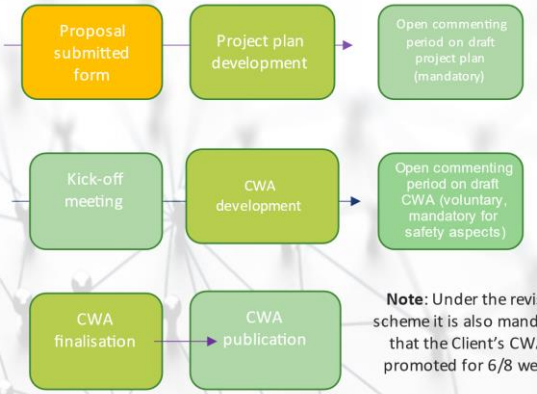
Agreement
A reference document to be disseminated throughout Europe.

- CWA process is **promoted** as an enabling mechanism to ensure a fast and inclusive development with a number of CEN/National Standard Body administrative steps for the delivery of a reference document (not a standard but a pre-standardization document at best).
- May be suited for innovative subjects and might act as a stepping stone, before a broader range of countries and stakeholders can take up the subject.
- Supports networking activities.

So called fast–track to new standardization

Revised CWA mechanism:





Bulk of the work done by the Client. The NSBs provide the Secretariat to engage with CEN/CENELEC mainly on administrat

So called fast–track to new standardization

Background:

- CWA mechanismhas beenaroundsince 2001.
- Heavilypromotedby CEN/CENELEC and NationalStandardisationBodies(NSBs).
- ManyCWAs exist (1,000+).
- Theyare a CEN/CENELEC referencedocumentat best - not a standard.
- Historically,few CWAs have beenturned intostandards.
- CWA mechanismwas revised in the H2020 Stair4Security project (ended June 2021). Membersof the project were divided The balanceof the consortium was steered towards CEN/CENELEC & NSBs. **Alternative Better PracticeGuide initiative** is beingdevelopedby participantsfrom that projectthat do not involveCEN and NSBs.
- CWA mechanismis not an open system. Closed to CEN/CENELEC, the NationalStandardizationBodiesand the client
- **It is costly**, which was a contributingfactor for SPEEDIERto declineprogress beyondthe CWA projectplan. NSB Secretariatdetails

  NSB a) Do not providethe CWA service. NSB b) No resources availablefor the role of the Secretariat NSB c) 37K for the secretariatrole and stage payments NSB d) 28.5K for the same role.

In short, many share the perception that the tail is wagging the dog.

So called fast–track to new standardization

European Commission – DG-Home: (September 2021)

While some research projects deliver tangible CEN Workshop Agreement Workshops (CWAs) and made progress in standardisation related research .. .. **no mechanism yet exists** to ensure that standardisation is developed in close cooperation with key stakeholders such as **policy-makers and practitioners at all levels** (European, regional, national, local).

Call Topic: Horizon-CL3-DRS-01-4 (Deadline 23rd November 2021)
Developing a prioritise mechanism for research programming in standardization related to natural hazards and/or CBRNE.

Now the tail is turning!

Pre-Standardisation – A fresh-thinking approach

Better Practice Guide Initiative:

- Fresh-thinking **pre-standardisation** initiative that is being developed to be applicable across a series of sectors.
- Designed to **empower** pre-standardisation development with **experts** and practitioners

- Designed to be flexible:
  - **You** do it the way that works for you - stay as a 'de facto' pre-standard or move it later to a full standard
  - **You control** the pre-standardisation journey

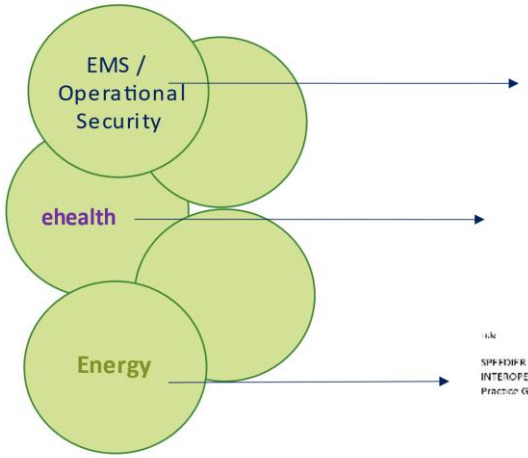
- Designed to **encourage more expert / practitioner engagement to get involved** who otherwise would not engage in pre-standardisation/standardisation

- Designed for **low cost** production

Dog beginning to wag the tail.

Pre-Standardisation – A fresh-thinking approach

Better Practice Guide Framework



THE "CANCER SURVIVORSHIP – AI FOR WELL-BEING" CLUSTER IS BORN

Pre-Standardisation – A fresh-thinking approach

Better Practice Guide Framework

EMS / Operational Security

ehealth

Energy

TFC, BAE Systems, 3M, French Ministry of Interior.

***EE CoU Initiative**: TFC, AEEPM, CENER, Dekra, Technical University of Munich*

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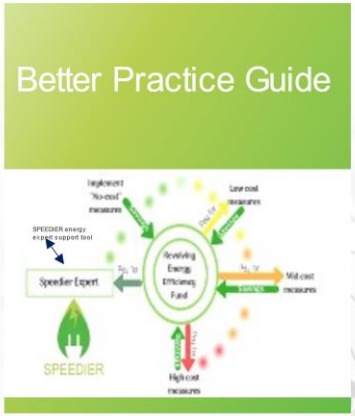
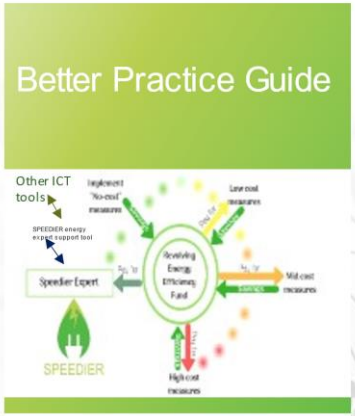


SPEEDIER Service self -financing mechanism

SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC Better Practice Guide

- **ITeC** (www.itec.es) developed a software tool for energy saving measures.
- SPEEDIER energy experts are able to provide input information on the engaging SME building.
- Tool automatically suggests a number of suitable energy conservation measures (ECMs) across each of the SPEEDIER cost category (i.e., no cost, low cost, medium cost and high cost) by accessing theITeC BEDEC database.
- The tool select solutions that match the constraints set by the individual SPEEDIER energy expert.
- Helps the energy expert to decide on the inclusion or exclusion of ECMs.
- Estimate associated energy and cost savings.



SPEEDIER Service self -financing mechanism

SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC
Better Practice Guide

- Article 8 of the Energy Efficiency Directive requires the European Member States to develop instruments (i.e., Projects, Tools and Policies) encouraging SMEs to undergo energy audits and to implement their recommendations in the process.
- Better Practice Guide focuses on interoperability the integration component of the SPEEDIER Software energy saving measures tool.
- It is also in line with the European Commission Directive [COM (2017) 134] for the European Interoperability Framework- Implementation Strategy.

SPEEDIER Service self -financing mechanism

SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC
Better Practice Guide

- Better Practice Guide in a 'living' document and was delivered to strengthen the interest and uptake of theSPEEDIER Service and components.
- It addresses the tool architecture and the vocabulary andapplication programming interface(API) constructs of a common information space for the sharing of knowledge at semantic level in line withITeC security protocol.

SPEEDIER Service self-financing mechanism

SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC Better Practice Guide

Better Practice Guide defines:

- **Resource Description**Vocabularies to describe the different types of resources to enable the different related energy management platforms, tools or ecosystem to technically exchange resources.
- **SPEEDIER Services Tool**: Agree on a minimal set of APIs (Application Programming Interface) to be implemented by any platform / software tool operating in the energy efficiency domain, through which requests for services can be made.
- **Security & Accessibility Profile for Resources and Services** Set of security specifications to be associated with resources and services maintained on the SPEEDIER software energy expert supporttool.

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SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC Better Practice Guide

Having an interoperability capability has been identified as a key characteristic for the uptake of the SPEEDIER Service beyond the life of the project.

Article (no. 8) of the Energy Efficiency Directive (EU EED) requires the European Member States (EU-27) to develop instruments (i.e., Projects, Tools and Policies) encouraging SMEs to undergo energy audits and to implement their recommendations in the process.

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SPEEDIER ENERGY EXPERT SUPPORT TOOL INTEROPERABLITY CONNECTIVITY – ITeC Better Practice Guide

"The Speedier Better Practice Guide, through the API engagement mechanism will enable other softwarerelated companies to engage with us and therefore be in a position to know the investment of energy rehabilitation actions and their payback period in line with ITeC engagement methodology. In addition, it will be permissible to have access to databases of buildings and their savings in accordance with the previously established actions, therefore, they will be able to establish referencevalues for energy rehabilitation actions and know the actions with a better return, energy and economic."

Licino Alfaro.
Head of the Department of Sustainable Construction
ITeC

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