

May 2024

WELCOME

to issue No.3 of the KNOWnNEBs newsletter!

This third issue will introduce you to our EU-funded sister projects. Together with KNOWnNEBs project, they are tackling the challenge of driving decarbonization in industrial sectors and SMEs, while advocating for energy transitions. Besides that, we will provide a glimpse of project news and relevant future events in the industry.

KNOWnNEBs is a Life EU-funded project that aims to accelerate the uptake of energy efficiency (EE) measures thus increasing EE investments and sustainable actions. Focusing on the primary tool for identifying and evaluating barriers to energy efficiency – the energy audit - the consortium intends to improve current practices, by quantifying the value of NON-ENERGY BENEFITS (NEBs) and integrating it into energy efficiency calculations.

Current energy audits only report on direct energy cost savings, not considering NEBs,

such as improved product quality, space comfort, increased productivity, reduced maintenance-related downtime, and other significant benefits. This leads to energy audits underestimating the true value of energy efficiency indicators and neglecting impactful measures which could increase EE investments and accelerate the implementation of sustainable actions.

We encourage you to share this newsletter with colleagues who might be interested!

To keep up with the project and be part of the change in methodologies, follow us on our social media channels ([LinkedIn](#), [Twitter](#)) and our [website](#).

Kind regards,

The KNOWnNEBs Team

PROJECT NEWS

OUR LATEST PROJECT EFFORTS

The KNOWnNEBs Tool



The KNOWnNEBs Tool is a MS Excel based tool that allows to quantify the impacts of NEBs in your energy efficiency projects. The tool helps users to find relevant NEBs by using a comprehensive database of NEBs indicators. It is developed together with a robust methodology, which enables to calculate the monetary value of NEBs and their effect on the overall benefit of suggested energy efficiency measures. This tool is primarily meant to be used during energy auditing process by energy auditors but can also be used by company

representatives once they have received energy audit results.

The tool can help you to:

- Identify the relevant NEBs for your energy efficiency project
- Estimate the potential NEBs impacts and benefits
- Communicate the value of NEBs to stakeholders
- Support your decision making and project evaluation

SISTER PROJECTS

KNOWnNEBs is not the only EU-funded project with the mission to advocate for sustainable actions and bring energy efficiency to the next level:

EnTRAINER, AUDIT2MEASURE, EE4SMEs, EE4HORECA, DEESME2050 and **EU-MORE** – alongside these six initiatives, we have the collective goal to drive sustainability and decarbonization. Ultimately, the goal is to ensure an implementation of the EE-measures discovered.

So this time we want to put the focus on some great ideas and experts from across Europe to give you an insight into what is happening in the world of energy transition. Feel free to visit the website of our sister projects if you want to learn more about their work and if the findings might have an impact to your business.

EnTRAINER

EnTRAINER aims to introduce a paradigm shift from conventional energy audits to a new, holistic and complete methodology of “Energy Transition Audits” (ETA). With this new approach, the main focus is to provide a multi-benefit scheme and a complete action plan towards full decarbonization of the audited sites.



EnTRAINER comprises partners with a long-standing cooperation and energy audit experts and will focus on energy intensive industries in 4 South-East EU countries (EL, RO, IT, ES), which are lagging in the implementation of energy audits compared to other EU regions.

The holistic methodology of EnTRAINER includes training elements, in the form of two accredited courses for energy auditors and energy experts and one course for company staff. It also includes a web-portal, with four new and upgraded tools, freely offered to energy professionals, and a training platform and knowledge hub that will allow a continuous interaction and knowledge.

In addition, the project will provide preliminary energy scans in 80 energy intensive industries, and then, based on certain maturity criteria, perform 40 detailed direct ETAs. The results from these ETAs will act as lighthouses for other industries of the same sector, by using the knowledge hub.

EnTRAINER will train 240 Energy Auditors, and in this context, will trigger another 40 indirect ETAs through the interaction with external energy auditors. Moreover, it will train 240 energy experts that may become the future energy transition auditors, and 400 company staff including key decision makers. EnTRAINER actions aims to trigger 16M€ investments, 4.75 GWh primary energy savings and 5.16 GWh renewable energy generation in total.

The project is coordinated by the Aristotle University of Thessaloniki (AUTH, EL), and includes other 7 partners: University of Western Macedonia (UoWM, EL), Agenzia CasaClima (IT), UniverCities (IT), Technical University of Cluj-Napoca (UTC, RO), SERVELECT (RO), Technical University of Valencia (UPV, ES), BEON (ES).

For more information visit: entrainer-project.eu

AUDIT2MEASURE

Industry is a key player in the energy consumption and the economy of the European Union. However, and despite both the spread of energy audits and the knowledge of their benefits, the actual implementation rate of Energy Savings Measures (ESM) proposed by such audits is still relatively low.



AUDIT2MEASURE

AUDIT2MEASURE aims to support companies in the energy transition by facilitating the uptake of energy efficiency measures recommended by audits. To achieve this goal, the project will address the most common barriers to energy efficiency interventions in industry: lack of information, behavioural inertia and economic discouragement.

Overcoming the lack of information

AUDIT2MEASURE offers a capacity-building program for managers and staff, providing a comprehensive overview on all the aspects related to energy efficiency. The AUDIT2MEASURE Knowledge Exchange Space also contains resources and case studies of energy efficiency interventions in companies of diverse industrial sectors. This space has a public section, but also a private section where partners can discuss and exchange sensitive data in a safe digital environment.

Overcoming behavioural inertia

The AUDIT2MEASURE free counselling program provides companies with expert knowledge, facilitating action towards a more energy-efficient operation.

Overcoming economic discouragement

While the counselling program also supports companies in finding funding options for their interventions, the Audit2Action strategy is a major value proposition: it helps managers and decision-makers in the prioritisation of energy efficiency measures to implement, supporting the calculation of benefits, payout times and implementation efforts.

For more information visit: ieecp.org/projects/audit-to-measure/

EE4SMEs

The EnergyEfficiency4SMEs project aims at enhancing the skills of energy technicians within a company as well as to improve their know-how to access public incentives and private finance. SMEs are the backbone of the EU economy and carry out business in some of the most energy intensive sectors. While energy audits prove to be tackling the problem in larger companies, SMEs require a lot of handholding in the implementation of the recommendations of energy audits. A consortium of 23 partners with a profound passion and commitment to support companies from 10 countries are instrumental in the implementation of the project.



EnergyEfficiency4SMEs

Over 3 years, the project aims to build capacity within SMEs on energy efficiency measures through a series of webinars, self-assessment tools, access to finance, etc. The project focuses on the sectors of Accommodation and Food services, Agri-food and Metalwork.

Within the projects different activities are planned, starting with a scoping study to identify effective energy efficiency measures according to the different sectors targeted by the project. These measures will be used as guideline for the selection of companies to be audited and for the capacity building of companies including the possibility of a self-assessment for companies that will be offered on the energy efficiency knowledge platform.

Not only is the project assisting companies regarding the technical aspect of implementing energy efficiency measures, but it is also providing support to find adequate funding opportunities in each country. For this purpose, a financial section on the knowledge platform is offering a tool to find customized funding opportunities fitting to the energy efficiency projects of companies.

For more information visit: ee4sme.com

EE4HORECA

The EnergyEfficiency4HORECA Project aims at increasing the uptake of energy efficiency measures and the use of renewable energy within the HORECA value chain (hotels, restaurants, catering) that is one of the energy intensive sectors. The project's activities include capacity building by workshops, webinars and a knowledge platform on energy efficiency as well as assistance by energy experts accompanying companies on their way to energy efficiency improvement. 12 partners from 7 countries form a consortium to implement the project.



EE4HORECA

The project conducted a scoping study to better understand the HORECA value chain in terms of

interaction of the different actors and service providers and the energy saving opportunities of each part of the value chain. This is the precondition for enhancing the skills of energy technicians and other important staff members within the HORECA companies and their service providers as well as to improve their know-how to access public incentives and private finance. The HORECA sector accounts for 8% of the worldwide energy usage and is thus one of the energy intensive sectors. While larger companies within the sector have already started implementing efficient energy measures and launching social and sustainability campaigns targeting staff and clients, SMEs require support on their sustainability path and competitive future.

For more information visit: ee4horeca.eu

DEESME 2050

DEESME 2050 builds on the developed DEESME multiple benefits approach to capacitate, assist and motivate companies to overcome the obstacles in energy efficiency measures uptake in the furniture sector and its value chain, mainly in Bulgaria, France, Italy and Poland.

In order to achieve this, DEESME 2050 involves, supports and accompanies companies in the implementation of energy efficiency measures based on their level of readiness. The project also builds capacities of the companies' staff on all working levels and endorses sustainability through the preparation of financing, standardisation and replication in cooperation with associations and policymakers.



The project objectives are to:

- Communicate with companies to make them consider energy efficiency in every business activity through information activities on energy risks (climate change, greenhouse gas emissions).
- Apply tools and methodologies in an integrated form with training activities, energy audits, investment feasibility, energy management systems available.
- Frame a political and regulatory scenario to show reducing energy consumption will create more competitiveness on the market and fight climate change.
- Facilitate the most ambitious choices of companies by systematizing economic and financial solutions already available.

For more information visit: ieecp.org/projects/deesme2050/

EU-More

Accelerating replacement of inefficient motors in industry and the service sector

EU-MORE (EUropean MOtor RENovation) is an EU-funded LIFE project that aims to speed up the replacement of old, inefficient electric motors in industry and the service sector and to promote the benefits of optimizing motor systems.

In 2020, electric motors represented about 70% of industry's electricity consumption and more than 40% of the service sector's electricity consumption in the EU27. Increasing awareness of this consumption has led to the introduction of minimum energy efficiency regulations, as well as energy-efficient technologies to meet and exceed these standards. Unfortunately, the penetration of these highly efficient technologies has been slower than might be anticipated because motors tend to stay in service longer than policymakers generally assume, often as long as 30 to 40 years.

Old motors mean inefficient motors. Accelerating motor replacement in the EU can free up a yearly saving of 25 TWh. If entire motor systems were to be renovated, the total savings potential could rise to 100 TWh per year. This savings potential is entirely additional to the current Ecodesign impact potential, which is calculated based on motor sales figures without taking any effects of accelerated replacement into account. As a result, the savings achieved through accelerated motor replacement fulfil the condition of "proven additionality", formulated in article 8 of the new Energy Efficiency Directive (EED).

EU-MORE aims to accelerate motor replacement and promote motor system optimization by proposing new policies for national and EU regulators and by developing tools to predict their impact. Along with this, it wants to promote the use of recyclable, high-value materials in motor manufacturing, ensuring that renovation programs contribute to EU circular economy goals. It also aims to promote knowledge sharing between stakeholders at Member State level, EU level, and internationally.

For more information visit: eu-more.eu/



KNOWnNEBs

Energy audits have a major impact on energy efficiency investments as they provide tailor-made recommendations and help the information gap regarding barriers to energy efficiency. However, the current energy audit approach usually only includes the analysis of direct energy cost savings, while non-energy benefits (NEBs) such as improved product quality, space comfort, increased productivity, reduced maintenance-related downtime and other significant benefits are not or hardly considered.



This means that in general energy audits underestimate the real value of energy efficiency measures, as well as by auditors, consulting companies but also by policy makers. The aspect of non-energy benefits and their perception by stakeholders (auditors, consulting companies,

stakeholders, policy makers) is hardly considered in the current approach. In energy audits, therefore, the focus is often only on direct energy savings or then presented in the audits.

In the project KNOWnNEBs, the non-energy benefits of the energy audit are currently to be demonstrated. For this purpose, interviews and surveys are conducted with audited companies, but the approaches will be also discussed with stakeholders. This will result in the relevant additional indicators, which should be taken into account more in the future audits and thus lead to faster implementation of investment efficiency measures.

For more information visit: https://www.e-sieben.at/en/projects/22003_knownnebs.php

Acronym	Project Name	Output	Duration	Project Leader	Website
EnTRAINER	Energy Transition Audits towards Decarbonization	„Energy Transition Audits“ (ETA) Accredited training courses and training material	Dec 2022- Nov 2025	AUTH	entrainer-project.eu
AUDIT2 MEASURE	Leading businesses towards climate neutrality by speeding up the uptake of energy efficiency measures from the energy audits	Audit2Action Strategy to prioritise energy-saving measures and plan the energy transition of companies	Nov 2022- Oct 2025	IEECP	ieecp.org/projects/audit-to-measure/
EE4SMEs	Increasing uptake of energy efficiency measures in small and medium sized enterprises	Access to Finance, Capacity Building, Energy Audits, Scoping Study, One stop shop - Energy Hub	Nov 2022- Oct 2025	Euro-chambres	ee4sme.com
EE4HORECA	Supporting the Clean Energy Transition of the HORECA value chain	Build capacity for all actors involved internally and externally across the HORECA value chain and gather data on energy use	Sep 2023- Aug 2026	Euro-chambres	ee4horeca.eu
DEESME 2050	Developing Energy Efficiency Projects in SMEs for European 2050 targets	Report on energy efficiency funding opportunities for SMEs in EU countries	Dec 2022- May 2025	IEECP	ieecp.org/projects/deesme2050/
EU-MORE	EUropean MOtor RENovation initiative	The project will develop new policies and tools to assist in accelerating motor replacement	Oct 2022- Mar 2025	ISR-UC	eu-more.eu/
KNOWn NEBs	Integration of non-energy benefits into energy audit practices to accelerate the uptake of recommended measures	Non energy benefits of energy efficiency measures, training for auditors for NON-ENERGY Benefits 45 Energy audits for SMEs	Nov 2022- Oct 2025	EKODOMA	https://www.e-sieben.at/en/projects/22003_knownnebs.php

INDUSTRY EVENTS

Electrification and decarbonisation are key to the carbon-neutral energy transition, but without energy demand reduction where possible, we simply won't make the transition to a renewables-based energy system fast enough or be able to afford it.

The 2024 summer study will continue to cover the broad range of topics from energy consumption and behaviour, over policy & evaluation, to local energy planning, transportation, buildings, and appliance and product policy.

[Find out more...](#)

INTERNATIONAL INDUSTRY EVENT

eceee's 2024 Summer Study

10–15 June
Chamouille, France



INTERNATIONAL INDUSTRY EVENT

EUSEW 2024

11–13 June
Brussels, Belgium



The European Sustainable Energy Week (EUSEW) is the biggest annual event dedicated to renewables and efficient energy use in Europe and comprises a series of activities aimed at building a secure energy future for Europe. It brings together public authorities, private companies, NGOs, EU project partners, researchers and consumers to promote initiatives to go green and digital for Europe's energy transition. EUSEW wants to support public and private actors in their efforts to transform Europe's energy landscape.

[Find out more...](#)



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