

DEESME StreamSave Final event

Policy panel: improving energy efficiency policies by understanding savings: from deemed savings to measurement

Jan Maygar – SIEA context: preparing documents for energy legislation, education and examination of more than 14 groups of energy specialists and working on projects regarding renewables and energy efficiency monitoring.

Demand for EE monitoring

- increasing targets in energy savings area
- there is a list of 10 priority actions as a value added from StreamSAVE, as well as an analysis of evaluation and an online platform: knowledge and support facility, forum (exchange of views) and training (possibility for discussion and views on methodologies with their creators)

- some potential applications in Slovakia, reference values for comparison/ adjustment and the chance to discuss the methodologies
- support for creation of new policies – for ex the replacement of electric motors in industry or application of heat pumps – both to impact on energy savings and infrastructure

Antoine Durand – Energy audit obligation acc to article 8 of current EED (energy efficiency directive)

Two step approach in enabling national authorities to enhance the impact of energy audits and EMS

1. Identification of challenges
2. Identification of best practices

Lead to a **guideline** that summarizes 55 practical solutions over 50 countries.

Vesna – Energy public institute

MRV of savings provisions rests on legal framework for energy savings in Croatia.

A tool that allows transfer of savings and stimulation is used since 2015 and also a tool for monitoring energy saving on public sector – a person is nominated and has to use the EMIS and annual reporting.

Example – renovated public building, making use of these measures:

- Building envelope, heating substations and systems, reactive power compensation, external and internal lighting, water supply system resulting in a total of 9.489.402,78 in deemed energy savings.

Example – public lighting – real data gathered from distribution system: comparisons between 35 public lighting systems and the deemed savings were 18% higher than metred

Example – information measures

- measures mostly used by obligated parties in EEOS – by sending out leaflets to consumers via newspapers, lead to replacement of 10 electric motors in industry

Lessons learned: necessary to use metered data to redefine – there is possibility to improve

Aidan – sustainable energy authority of Ireland

Energy credit management systems (ECMS)

- online database where energy savings are uploaded and tracked for EEOS and domestic and non-domestic grants scheme

Saving uploads are classified by

- obligatory party
- Sector
- Energy savings category and measure
- Obligation period

Project evaluation platform serve the purpose of getting submissions through a NREC. NREC evaluations ensure the application has been completed, the relevant supporting documents are included and complete a risk assessment of the project

Saving types:

- deemed savings
- metered savings
- scaled savings

Only the latter two are relevant in this case.

Industry panel: achieving energy savings in industry

Elisabeth Bock – AEA

Guidance document – 16 newly developed bottom-up calculation methodologies: Estimation of energy savings, estimation of relevant costs and GHG savings

Heat recovery in industry: Bottom-up calculation methodologies

Methodologies developed

- heat recovery for on site use in industry

Heat recovery

--- baseline situation

- heat production to operate an industrial process

Heat recovery: feeding another application

- reduces the energy input of another heat consuming application
- Final energy saving on site

Heat recovery : feeding into district heat

- reduces the energy input of final customers
- final energy savings occur at the final customer:

Conversion efficiency of a reference heating system VS conversion efficiency of district heating

Torben (Euroheat and power)

The outline of a prosumer supermarket in Denmark – selling heat into the district heating utility and buy it again

Around 230 thousand supermarkets in Europe, would potentially have a heat pump operation of 70 TWH/a

- specific examples with these measures were able to reduce their energy consumption by 90%.

Livio FIRE

Measuring energy savings in industry: the experience of the Italian white certificates scheme

White certificate scheme is the main tool used at national level in Italy:

Enforced from 2001, it is a market mechanism – the sole scheme that provides effective and verified savings

Evaluation of energy savings and M&V

- deemed saving projects VS Monitoring plan projects (better to use both)

In terms of forcing them into being more energy efficient...

Karen Clements (Covenant of companies)

- encouraging companies and supporting them to step up their contribution for the energy transition is the mission and very important

How to achieve?

- pledging and recognition by offering a pledging scheme with various levels of recognition
- finding ways to trigger a company's awareness
- bronze (allows you then one on one technical assistance), silver, and gold encourage companies to take concrete measures to reduce their GHG emissions.

Priorities & Panel: Future of energy savings and beyond in the context of the EED recast

Heidelinde EC

- fit for 55 package of proposals consists of a set of interconnected proposals to achieve the energy and climate targets

All Europe is facing price instabilities and challenges regarding power in EU, REPowerEU is a programme launched to phase our dependency on Russian fossil fuels.

Revising the EED – ambitious targets and new instruments

- Energy efficiency first principle – making it an integral part of policy and investment decisions
- Binding EY energy efficiency target and indicative national contributions
- Strengthened energy savings obligation in end-use
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Ambitious targets

EE targets 9% in FF55 and 13% in REPowerEU proposals

Updated in EED to 11.7% reduction for 2030 compared to forecasts made in 2020

- for primary and final energy consumption
- requires EU member states to collectively ----

Rodiger Lohse

- energy policy and framework has changed disruptively in 2022 – providing huge challenges and opportunities for energy service companies. To be successful approaches must be changed, not traditionally but on what the customer needs, it is ever changing.

Challenges: Policy & society

Changing user demands

Require innovative responses

Laura Bano

Multiple benefits approach to energy auditing: life cycle

Taking into account the multiple benefits you can have when investing in energy efficiency were taken into account in the 7 steps cycle.

Business analysis – environmental analysis – multiple benefits analysis – business model advancement

First tool developed under the project to prompt companies to make an integrated approach.

SOGESCA developed a tool for investments analysis according to the MB approach, targeting companies that have been involved in energy audits, the info should be compiled by energy auditors and companies.

Jorieke RVO

Energy saving obligation in the Netherlands:

Included in the law since 1993 but only from 2019 really came into force:

- recognized checklists of measures for 19 sectors
- financial support for local authorities

From 2019 to jan 2022 60.000 out of 90.000 were submitted

In 2023 there were further developments, having the target group been enlarged with EU ETC/ energy intensive industries, permit holders, and greenhouse horticulture – large target group and large saving potentials.

Energy saving obligation in monitoring for EED – make sure to collect extra data for next round in December 2023, as so far it was based solely in checklists

* Shift from voluntary agreements to energy saving obligation is expected to be impactful even if it a challenge from the monitoring point of view.

Marion Santini – Regulatory Assistance Project