



EPATEE – Evaluation into Practice to Achieve Targets for Energy Efficiency

18 October 2019

Jean-Sébastien Broc

Gregor Thenius Austrian Energy Agency

IEECP (Institute for a European Energy & Climate policy) Lovorko Marić EIHP (Energy Institute Hrvoje Požar)

With acknowledgements to all EPATEE partners, and all stakeholders and experts who contributed to the project



This project has received funding from the European Union's Horizon 2020 Research and innovation programme under grant agreement No 746265.





OBJECTIVE: creating favourable conditions for improving the number, quality/performance and effective use of ex-post impact evaluations of energy efficiency policies.

CONCEPT: improving key stakeholders' evaluation practices can lead to a better understanding/knowledge of impacts and how policies work, and thereby to increasing effectiveness of policies





EPATEE consortium





https://epatee.eu





> What are the results or impacts?

Assessing and reporting results, effectiveness and efficiency of the policies, e.g.:

- accountability (e.g., to the Ministry of Finance, the Parliament or the Court of Auditors),
- monitoring target achievement,
- assessing cost-effectiveness of the policy measure,

> What can we learn or improve?

Examining what works, what does not work, looking for improvements and getting new ideas, e.g.:

- getting a feedback on the satisfaction about the scheme,
- understanding what worked (or did not work) as planned,
- providing inputs to the redesign or improvement of the scheme,

Experience sharing webinars	Stakeholders'	Toolbox – <u>General</u>	Presentation by
#1 <u>part 1</u> and <u>part 2</u>	<u>survey #1</u>	<u>principles</u>	Kathleen Gaffney



Stakeholder involvement





- Interviews with key stakeholders
- Surveys on evaluation practices
- EU peer-learning workshops
- National peer-learning workshops
- Webinars
- Direct support
- EPATEE newsletter <u>https://epatee.eu/subscribe-our-</u> <u>newsletter</u>



732 participants to all events

- 289 participants to dissemination webinars
- 143 participants to experience-sharing webinars
- 160 participants to peer-learning workshops
- 140 participants to national workshops
- Around 300 unique participants
- Plus direct support and visitors/users of website and online toolbox
- 30 presentations from external experts at EPATEE events



Online toolbox



making resources easy to use

Based on up-to-date knowledge and concrete experiences





Background information

Attachment

PATEE : introducing the case studies in 5 slides

PATEE: Terminology and typologies used in the case studies

Evaluation into Practice: Lessons learnt from 23 evaluations of energy efficiency policies | Volume I - Main findings

Evaluation into Practice: Lessons learnt from 23 evaluations of energy efficiency policies | Volume II -Background report

Case studies about examples of evaluations

These case studies present how policy measures have been evaluated, including an interview with the evaluat customer and/or lead evaluator.

Country - Any -	Sector Type of instrument - Any - - Any -	Apply	
Country	Name of the measure	Sector	Туре
Austria	City Energy Efficiency Programmes of Vienna	Transversal	Policy mix
Austria	Environmental Support' (UFI: Umweltförderung im Inland)	Industry and services	Financial
Belgium	Primes Energie (grants for energy renovation)	Residential	Financial
Croatia	Individual heat metering in multifamily buildings	Residential	Information/ Education
Croatia	Energy renovation of public sector buildings programme	Services	Financial

Case Studies

learnt from their review

+ lessons

23 case studies about examples of evaluations

Topical case studies

These case studies are focused on evaluation issues that have been high challenges in terms of evaluation practices. They include a targeted literation of evaluation practices.

- Linkage between monitoring and evaluation
- Evaluating net energy savings
- Comparing estimated vs measured energy savings

Objectives of EPATEE case studies

- Making information easily accessible & providing data as transparent as possible
- > Analysing **concrete examples** about

EPATEE

- why evaluation is used
- **how** it is performed
- ➤ interview(s) with the evaluation customer and/or evaluator → direct experience feedback

NO INTENTION TO BE EXHAUSTIVE OR REPRESENTATIVE

Objective = covering a **diversity** of situations to produce **materials for experience sharing**



US > New England Capacity Market > Weatherization Assistance Program	 > Subsidy scheme for housing corporations > Multi-year agreements in the industry > Purchase tax on 	Nordic Countries	 Finland > EE agreements in Industries > Energy audits in municipalities
> Warm Fr Irela > Better Energy Hon Belgium (W > Primes > "Future Investr progr > Voluntary agree for freight com	<pre>> El ont ont nes allonia) Energie France ments" amme ement panies</pre>	> Energ	Lithuania > Renovation programme for apartment blocks y gy Efficiency Fund gy Efficiency Networks Initiative ustria Environmental Support rogramme for companies City EE Programmes of Vienna roatia Energy renovation programme or public sector buildings
> WI 3 rd European wo	nite Certificates scheme rkshop Rome – 30		Individual heat metering in nultifamily buildings





Overall objective:

 Develop a smart online toolbox with information and guidance for practitioners on integrating evaluation practice in the policy cycle for energy efficiency policies.

Target groups

 Primarily policy makers and evaluators, who are not necessarily experts in the field of evaluations and/or energy efficiency

The online toolbox offers

- General guidelines and 'best practices' examples on energy efficiency policy evaluation
- Guidance on logical steps of an evaluation
- Guidance on evaluation methodologies
- Guidance on different types of impacts
- Practical examples, with references
- do's and don'ts
- per sector, per policy measure, in different countries
- Recommendations and support on energy efficiency policy design
- Further readings







EPATEE

Home Wizard Search Contact

Online tool for putting evaluation of energy savings into practice

This website provides practical tools and guides to facilitate the uptake of good evaluation practices according to various needs.

The tools are meant to help step by step both evaluators and users of evaluation results in specifying the evaluation methods and effects, through:

- Providing a smart online toolbox with tools for integrating evaluation practice in the policy cycle.
- Clarification of how tools can be best applied by means of guidelines

Evaluation principles & methods

Select this box if you have questions about evaluation principles, about why and how to plan & prepare evaluations or about cross-cutting issues.

Specific evaluation guidance

Select this box if you have questions related to the evaluation of a specific combination of policy instrument, sector and/or a certain type of evaluation method.

Knowledge base & case studies

Select this box if you looking for practical examples or references to additional information.



Examples of use | 1) specific guidance



A policy officer wants to compare several proposals received for an upcoming evaluation Or an evaluator looks for examples and pros & cons of different methods for a given situation

Specific evaluation guidance

Type of policy	Sector	Type of method
 Legislative/Normative Legislative/Informative Financial support Fiscal/Tariffs Information/education Voluntary and Cooperative Market based instruments 	 Buildings/residential Buildings/non-residential Households appliances Services devices Industry/specific Industry/general Agriculture Freight transport Passenger transport 	 Measurement Deemed savings Engineering estimate Stock Modelling Billing analysis Diffusion indicator Energy indicator sector Energy indicator equipment Econometric modelling

Econometric price elasticity



Examples of use | 1) Specific guidance



1. USE OF THE TOOL

- 2. SCOPE OF THE TOOL
- 3. EVALUATION REQUIREMENTS
- 4. APPLICATION FOR CALCULATION OF SAVINGS
- 5. INPUT AND OUTPUT
- 6. ALTERNATIVE FOR CHOSEN METHOD
- 7. ADDITIONAL EVALUATION RESULTS

8. CONCRETE EXAMPLES

9. FURTHER READING

Why/when this method can be relevant (according to the policy's and sector's specificities)

How this method can be used (e.g., baseline, normalization/ adjustment factors, data requirements)

Pros & cons vs. other methods

Going beyond energy savings

References for more details (examples, guidebooks, dealing with specific issues, etc.)



Examples of use | 2) Principles and process



A policy officer not yet familiar with evaluation, who wants to get some insights about its added value An evaluation expert struggling to make evaluation integrated in the practices of her institution

Evaluation principles & methods



EPATEE Key message from existing practices | the process



Evaluation priorities depend on who the **primary audience** is

Evaluation is not a burden, but an **opportunity**

Evaluation helps increasing stakeholders' confidence in the schemes

"One may have fear to do an ex-post impact evaluation, because it may show smaller results than based on the engineering estimates. However this increases the robustness of the results and therefore the confidence funders can have in them" (quote from the Irish case study)

> **Communication** about evaluation results can be as important as doing the evaluation

Regular review and **in-depth** ex-post evaluations are complementary

EPATEE Key message from existing practices | the method



Well-documented data is good data

The **choice of evaluation methods** depends on evaluation objectives and practical constraints

Monitoring and data collection are essential for making any evaluation possible

Selecting the most relevant data to collect is a **continuous process**

"In reality, if two persons carry out impact evaluation of the same policy measure, they get different results. Even if I make the same calculation in successive years without proper documentation of the calculation method and definitions, the calculation can be different. This highlights the needs for good logic and documentation." (quote from the Finnish case study)

Evaluating **net impacts** is a challenge, but **essential** to assess the efficiency of policies Comparing different methods helps assessing the robustness of the results



Future of EPATEE's resources











Expert Area "Planning, monitoring and verification and savings calculations" in Domain 1 and in the CA EED Forum

ODYSSEE-MURE ➤ Renewed from 2019 to 2022, including an upgrade of the MURE database







- Energy Evaluation Europe (formerly IEPPEC)
 - New website: <u>https://energy-evaluation.org/</u>
 - LinkedIn discussion group with 300+ members
 - Webinar series (<u>Energy Evaluation Academy</u>)
 - Call for Abstracts still open for EEE 2020 (conference to be held in London, 29 June – 1 July 2020)





Thank you for your attention!



www.epatee.eu https://twitter.com/epatee_eu

http://indagini.fireitalia.org/index.php/614482

Feedback and discussion ideas

➤Evaluation experience-sharing

> How can EPATEE outputs directly help you as a stakeholder?

> Financial support ideas for the future of the outputs

➢Future opportunities