



Webinar March 28, 2019:

**How and what can we learn from the EPATEE
Toolbox for ex-post evaluation of energy
efficiency ?**

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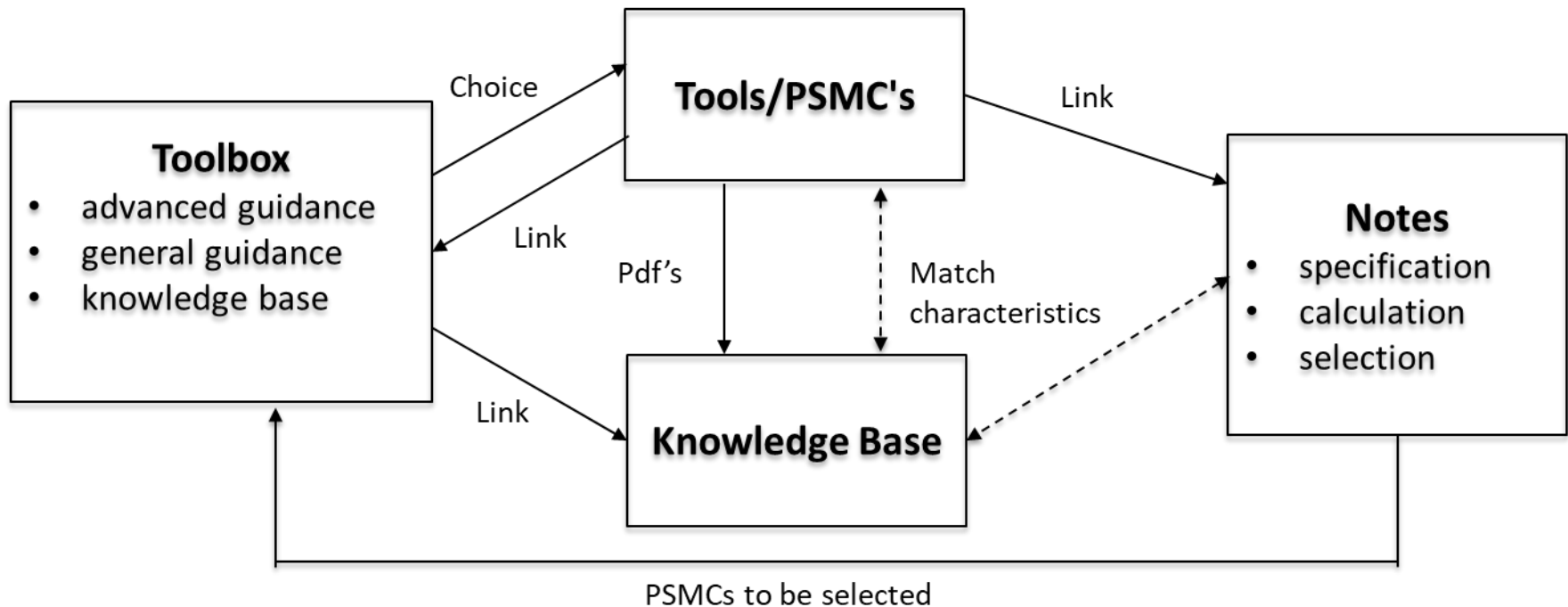
Aim of the Toolbox

- General guidance on ex-post evaluation of Energy Efficiency
- Providing a Knowledge Base of relevant references
- Providing advanced guidance on specific **C**ombinations of **P**olicy measure, **S**ector and calculation **M**ethod (PSMC)
 - By guiding users through different menu's
 - By an interactive selection mechanism (wizard)

Guidelines/tools

- Based on general template for tool descriptions
- Descriptions for 30 tools (tailored to specific PSM combinations) of how to execute the evaluation, given the needs and possibilities for the specific combination)
- References to pdf's in Knowledge Base
- References to General guidance in Toolbox
- References to internal Notes in the project

The Toolbox aims to combine the Knowledge Base, general guidance and the PSMC's in a single platform

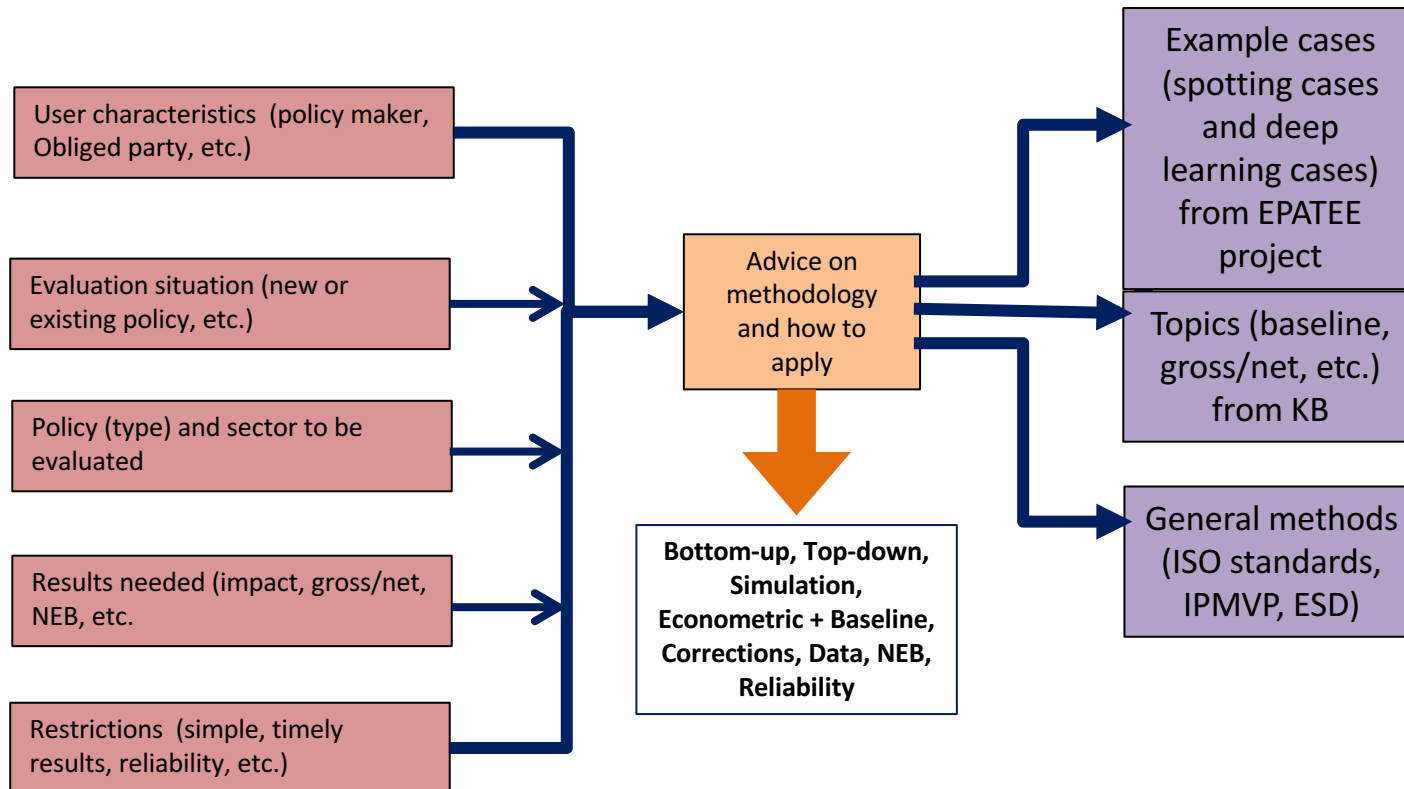


Examples of internal Notes in the project :

Internal Notes:

- **A.** Main policy measure types and selection for PSMC
- **B.** Adapted set of (sub)sectors for PSMC analysis
- **C.** Definitions related to Energy savings evaluation
- **D.** Saving calculation methods and their application in the EPATEE Toolbox
- **E.** Definition, applicability analysis and selection of tools for the Toolbox

General organisation of the toolbox



EPATEE Tool set-up and Knowledge Base,
as discussed with FhG in december 2017

Selected list of PSMC's :

Given these criteria the following set of tools for PSMC's is proposed:

1. LN - Buildings/residential – Measurement (PDF 55)
2. LN - Buildings/residential – Deemed savings (PDF 97)
3. LN - Buildings/non-residential – Engineering estimate
4. LN – HH/Other (appliances) – Deemed savings (PDF 16/38)
5. LN - HH/Other (appliances) – Stock modeling
6. LI - HH/Other (appliances) - Deemed savings (PDF 38)
7. LI – HH/Other (appliances) - Measurement (PDF 58, method 10 > 1)
8. GS (FT) - Buildings/residential – Measurement (PDF 20)
9. GS (FT) - Buildings/residential – Deemed savings (PDF 52/102/109)
10. GS - Buildings/residential - Stock modeling (PDF 23)
11. GS - Buildings/residential - Diffusion indicator (PDF ~~22/73/136~~)
12. GS – Buildings/non-residential – Subsector energy indicator (PDF 53)
13. GS – Services-ex-buildings (devices) – Deemed savings
14. GS (FT)- HH/Other (appliances) – Deemed savings (PDF 38/175)
15. GS –Buildings/residential – Billing analysis (PDF 116/135)
16. GS (VA) – Industry/specific – Engineering estimate (PDF 118)
17. GS – Industry/general – **Unit consumption** (PDF 56, method 4 > 8)
18. GS – Agriculture) – Subsector energy indicator (PDF 40)
19. GS – Transport/freight – Engineering estimate
20. FT – Transport/persons – Stock modeling (PDF 147)
21. FT (tax) – All sectors – Econometric/Regression
22. FT (tax) – All sectors – Econometric/elasticity (PDF 68)
23. IE – HH/Other (appliances) – Measuring (PDF 108, also PDF 58)
24. IE – Services-ex-buildings – Billing analysis (PDF 25)
25. IE (audit) – Industry/general – Econometric/regression (PDF 132)
26. IE – Transport/persons – Deemed savings (PDF 111)
27. VA – Industry/general - Subsector energy indicator (PDF 35, method 10 > 8)
28. MB – Building/residential – Deemed savings (PDF 70, method 2 > 3)
29. MB - Building/residential – Econometric/regression (PDF 51, method 10 > 9)
30. MB - Industry/general - Engineering estimate (PDF 83)

With 10 methods,
8 sectors and 7 policy measures,
a total of $10*8*7=560$ theoretical
combinations are possible

General principles

- > About evaluation (in general)
- > Definitions and typologies
- > Evaluating impacts other than energy savings
- > Evaluation approaches complementary to impact evaluations

Process of evaluation

- > Why doing evaluations
- > How to plan and prepare evaluation
- > Integrating evaluation into the policy cycle

Evaluation methods

- > Overview of evaluation methods and their application in the EPATEE Toolbox
- > Guidance per type of evaluation method
- > How to choose a method or baseline

Cross-cutting issues

- > Evaluating net energy savings
- > Linkage between monitoring and verification tools (data collection) and evaluation (complementary analysis)

General organisation of the online toolbox

EPATEE Home page

<div style="background-color: #1a3d54; color: white; padding: 10px; margin-bottom: 5px;">Evaluation principles & methods</div> <div style="border: 1px solid #1a3d54; padding: 10px; margin-bottom: 5px;"> <p>Select this box if you have questions about evaluation principles, about why and how to plan & prepare evaluations or about cross-cutting issues.</p> </div>	<div style="background-color: #7c9a4d; color: white; padding: 10px; margin-bottom: 5px;">Specific evaluation guidance</div> <div style="border: 1px solid #7c9a4d; padding: 10px; margin-bottom: 5px;"> <p>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.</p> </div>	<div style="background-color: #e67e22; color: white; padding: 10px; margin-bottom: 5px;">Knowledge Base & case studies</div> <div style="border: 1px solid #e67e22; padding: 10px; margin-bottom: 5px;"> <p>Select this option if you are looking for practical examples or references to additional information.</p> </div>
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Wizard