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ODYSSEE-MURE

Energy Efficiency Policies – Impact and Indicators
*Third meeting of the project “ODYSSEE-MURE,
a decision support tool for energy efficiency policy evaluation”*
Vienna, 26-27 April 2018

MURE database: Status of update and tools

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Status of MURE updating and quality control

- Beginning of September 2017: updated guidelines and a template for the case studies on impact evaluations were provided to the national teams.
- September – November 2017: 2nd (and last) update of the MURE database. Main focus: NEEAP 2017 measures → last measure updates for a few countries until March 2018
- November 2017 – March 2018: several checks of updating status by Fraunhofer ISI
- Quality check: After the first MURE update, the national teams received in two personalized mailing the formal “Quality check control tables” for their country and a detailed quality check report regarding selected measures → we recommended to take these results into account at least for the 2nd update.
- A formal quality check will be made for the 2nd update during the next weeks.
- In addition to the general measure update, we also asked for an update of two of the MURE policy tools:
 - An update of the successful measure facility was asked for both updates.
 - For the new impact evaluation tool, 3-5 case studies on good impact evaluations per country were asked for the 2nd update.

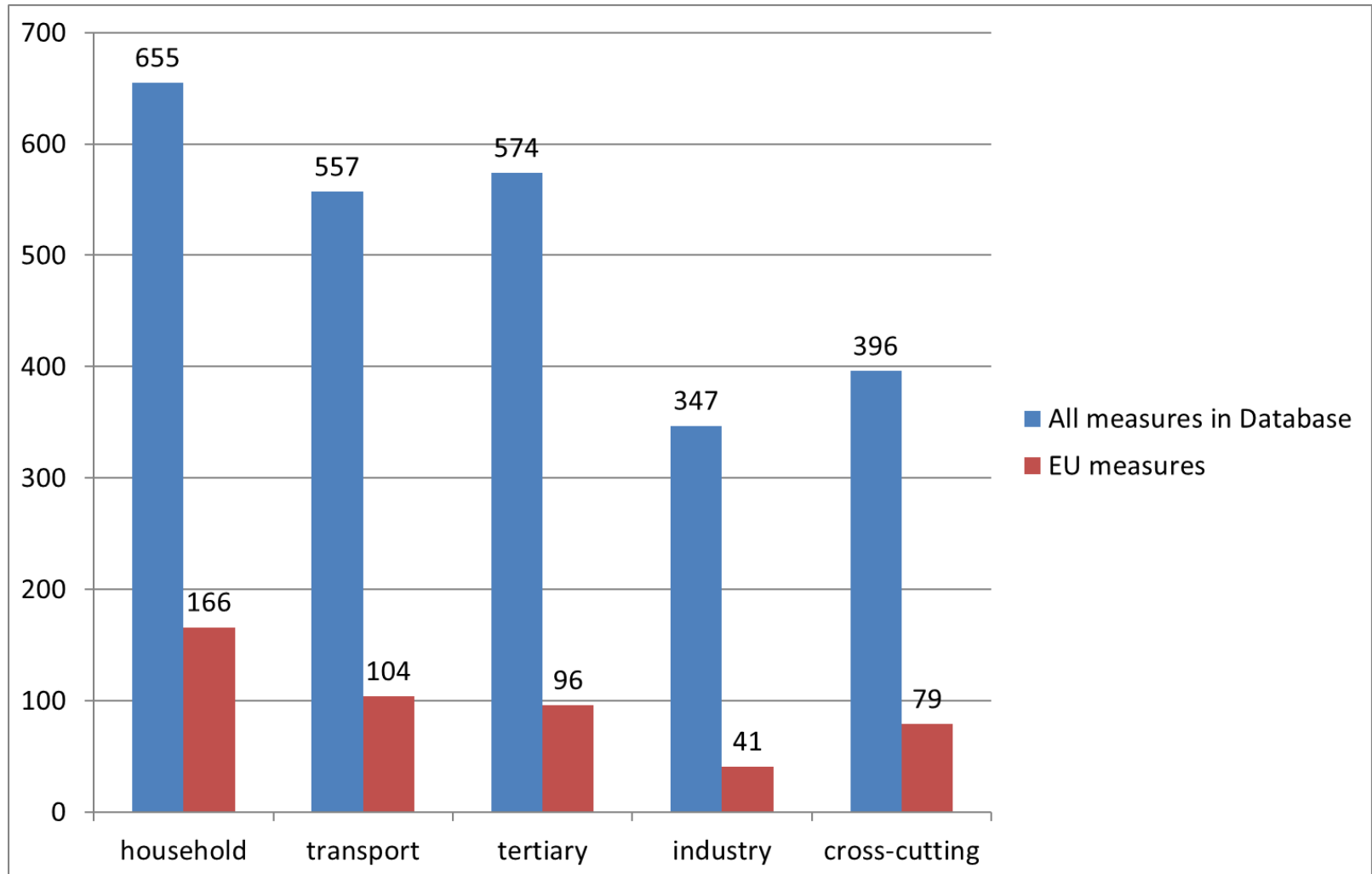
Updating status by country, 2nd update (end of March 2018)

Country	Number of modified and newly added measures (since June 2017)					
	Household	Transport	Industry	Tertiary	Cross-Cutting	Total
Austria	7·(0)	12·(0)	6·(0)	8·(0)	9·(1)	42·(1)
Belgium	14·(0)	5·(0)	5·(0)	13·(0)	8·(0)	45·(0)
Bulgaria	5·(3)	7·(2)	4·(0)	13·(0)	6·(0)	35·(5)
Croatia	6·(0)	21·(3)	0·(0)	10·(1)	0·(0)	37·(4)
Cyprus	4·(3)	0·(0)	0·(0)	4·(2)	1·(1)	9·(6)
Czech Republic	8·(0)	2·(0)	0·(0)	2·(0)	1·(0)	13·(0)
Denmark	4·(0)	0·(0)	1·(0)	0·(0)	1·(0)	6·(0)
Estonia	30·(0)	25·(0)	19·(0)	28·(0)	14·(0)	116·(0)
European Union	40·(4)	11·(0)	7·(0)	12·(0)	12·(0)	82·(4)
Finland	15·(0)	15·(0)	7·(0)	23·(0)	10·(2)	70·(2)
France	14·(1)	5·(0)	9·(1)	5·(0)	7·(0)	40·(2)
Germany	24·(0)	18·(0)	14·(0)	15·(0)	4·(1)	75·(1)
Greece	9·(0)	11·(0)	7·(1)	16·(0)	5·(0)	48·(1)
Hungary	5·(3)	2·(1)	3·(3)	1·(1)	11·(1)	22·(9)
Ireland	13·(2)	11·(0)	4·(0)	18·(0)	3·(0)	49·(2)
Italy	3·(0)	2·(0)	2·(1)	2·(0)	1·(0)	10·(1)
Lithuania	18·(3)	13·(0)	7·(1)	26·(1)	11·(1)	75·(6)
Luxembourg	4·(0)	2·(0)	2·(0)	2·(0)	5·(4)	15·(4)
Latvia	17·(2)	22·(2)	14·(3)	26·(5)	17·(6)	96·(18)

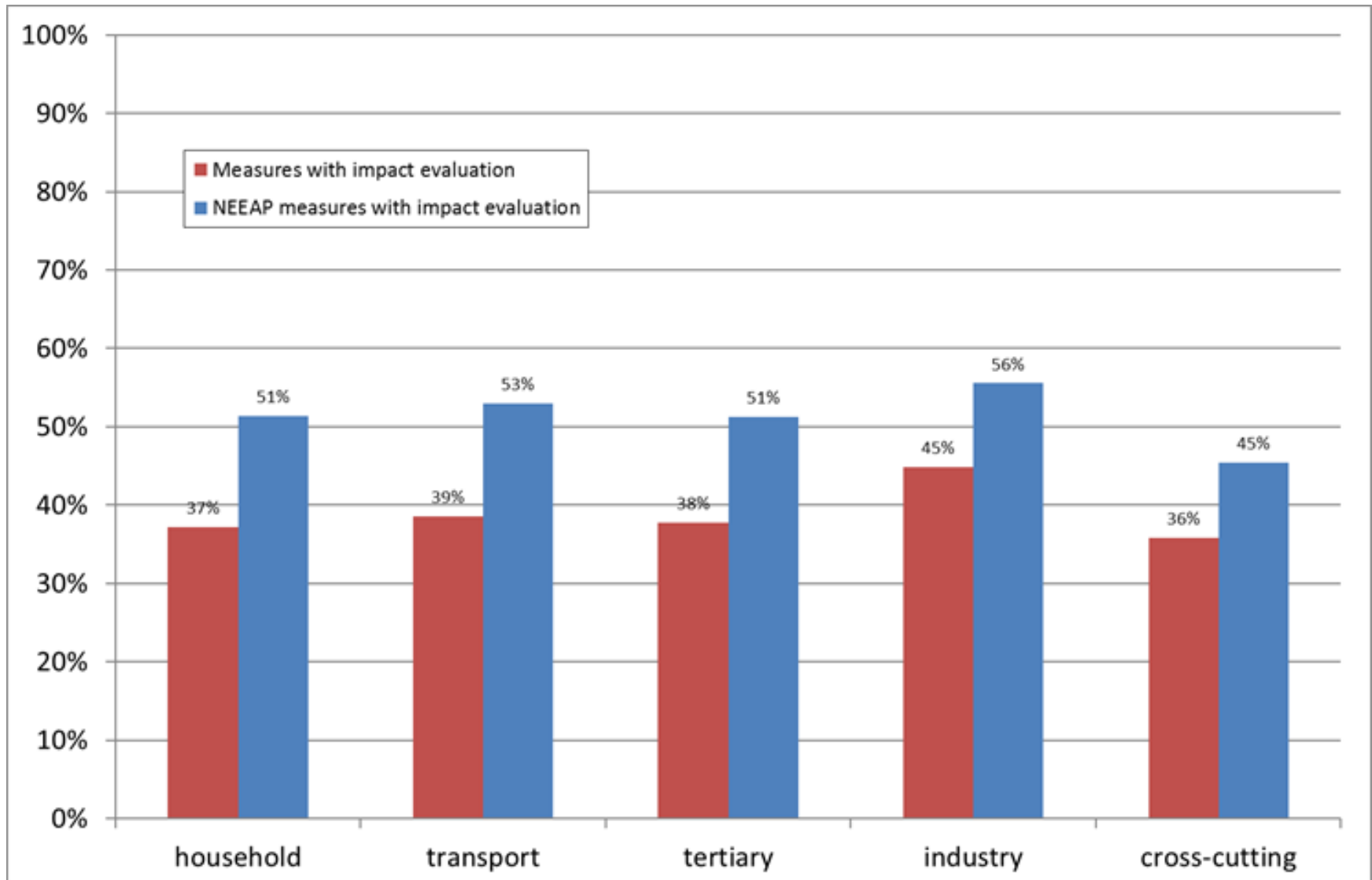
Updating status by country, 2nd update (end of March 2018)

Country	Number of modified and newly added measures (since June 2017)					
	Household	Transport	Industry	Tertiary	Cross-Cutting	Total
Malta	15·(9)	11·(9)	12·(12)	15·(12)	10·(7)	63·(49)
Netherlands	20·(0)	0·(0)	1·(0)	0·(0)	0·(0)	21·(0)
Norway	17·(1)	11·(1)	10·(0)	16·(4)	7·(0)	61·(6)
Poland	2·(1)	8·(0)	5·(0)	5·(1)	9·(1)	29·(3)
Portugal	15·(1)	13·(0)	1·(0)	11·(0)	8·(0)	48·(1)
Romania	6·(0)	8·(0)	4·(0)	4·(0)	4·(0)	26·(0)
Serbia	3·(3)	11·(11)	4·(4)	24·(24)	5·(5)	47·(47)
Slovakia	0·(0)	0·(0)	0·(0)	0·(0)	0·(0)	0·(0)
Slovenia	14·(4)	3·(1)	1·(1)	5·(2)	7·(5)	30·(13)
Spain	9·(0)	12·(2)	8·(2)	16·(3)	8·(2)	53·(9)
Switzerland	2·(1)	3·(0)	5·(3)	1·(1)	3·(0)	14·(5)
Sweden	3·(0)	0·(0)	3·(0)	3·(0)	6·(1)	15·(1)
United Kingdom	10·(0)	3·(0)	5·(0)	9·(0)	7·(0)	34·(0)
Total	356·(41)	267·(32)	170·(32)	333·(57)	200·(38)	1326·(200)

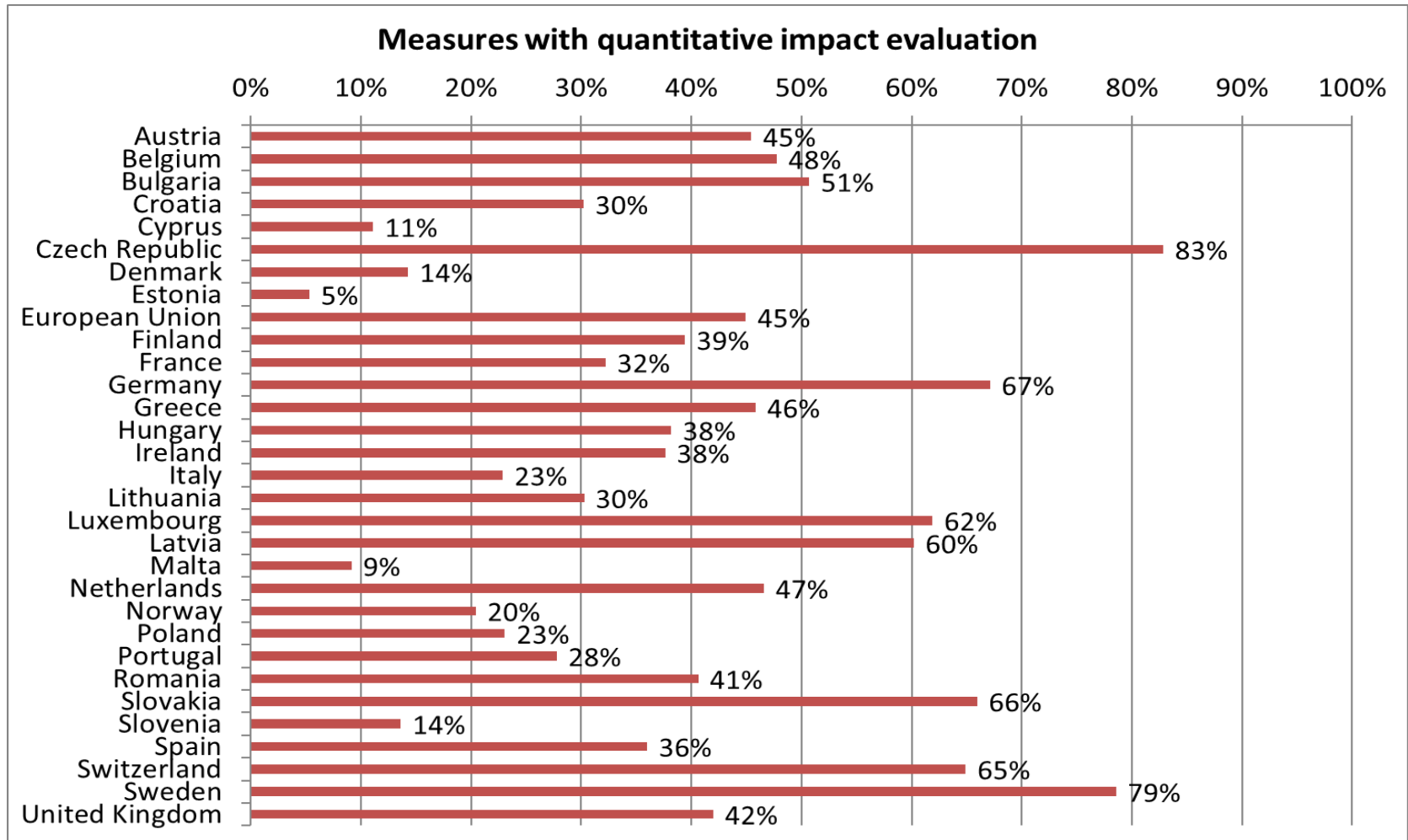
Number of total measures / EU measures



Measures with quantitative impact evaluation by sector



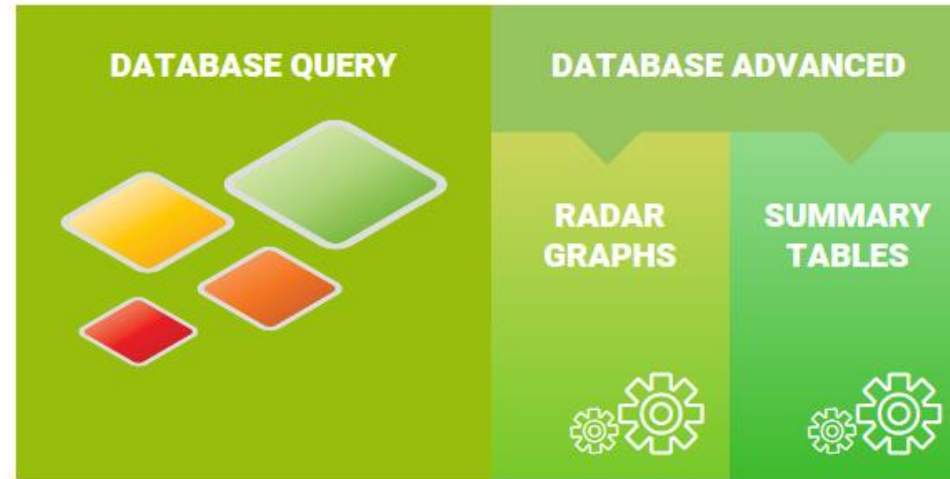
Measures with quantitative impact evaluation by country



The MURE Policy Tools

ABOUT THE MURE DATABASE

MURE (Mesures d'Utilisation Rationnelle de l'Energie) provides information on energy efficiency policies and measures that have been carried out in the Member States of the European Union. The information is accessible by query in the database. The distribution of measure by type can be visualized through radar graph. Finally several facilities enable specific queries.



Main page

Allowing for a structured approach to measure impact evaluations

- Overview of evaluation methods for energy efficiency policies and measures in MURE -

Help and Good Practices

See how the measures are distributed per evaluation method and which are the recommended evaluation methods per measure types



- Distribution of evaluation methods (matrix)
- Distribution of evaluation methods (graphs)

Submit

Then see which measures have been evaluated with a given evaluation methods and evaluate their impact with the Policy Interaction Facility



Sector

Evaluation Method

Country

Submit

Illustration of the methodological approach through 3-5 case studies on impact evaluations per country in MURE

Basis: Description of the evaluated energy efficiency policy in the MURE database

Homogenous “Five-step-approach” for each case study:

- Step 1: Short description of the evaluation study (background, objectives, ex-post/ex-ante evaluation, top-down/bottom-up)
- Step 2: Financial means and output (information on public budget involved, costs for obligated parties, administrative costs, triggered investments)
- Step 3: Collection of data on energy savings
- Step 4: Calculation method(s) for energy savings and key methodological choices (type of method(s), baseline(s), type of adjustments, correction factors, additionality)
- Step 5: Other aspects evaluated (e.g. CO₂ emissions, impacts on jobs)

Structure of these case studies is directly taken from the **EPATEE case studies** in order to enlarge the number and geographical scope →

direct link between MURE and EPATEE case studies is foreseen

Integration of the case studies in the MURE database

Selection of case studies

- 3-5 case studies per country
- Covering different types of EE instruments (subsidy programs, EEOs, information)
- Covering different sectors
- Focus on good examples from stakeholder training sessions
- Collaboration with H2020 project EPATEE

<i>Title of the measure:</i> □ □

General description ¶



Impact evaluation ¶



Interaction of measures ¶



Historical data ¶



References ¶



Integration of the case studies in the already existing detailed measure description

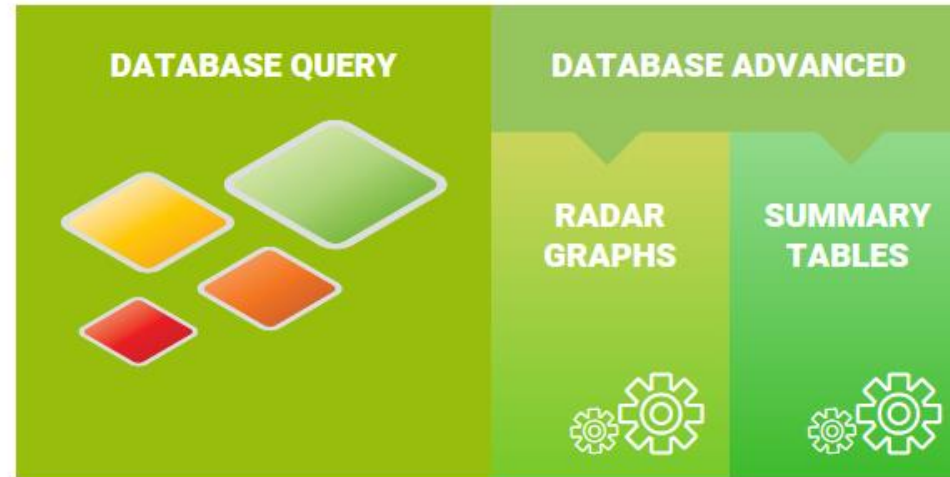
Actual status of 3-5 case studies on impact evaluation by country

Country	Sector	Measure Code	Title
Cyprus	Households	HOU_CY13	Program for the Energy Renovation of buildings
Cyprus	Tertiary	TER_CY9	Program for the Energy Renovation of buildings
Cyprus	Cross-cutting	CC_CY6	Increase in the green levy charged to all electricity consumers from 0.5 Eurocents/kWh to 1 Eurocent/kWh
Estonia	Households	HOU_EST19	Support scheme for reconstruction of apartment buildings
Estonia	Tertiary	TER_EST10	A project for reconstruction of public sector buildings (2010-2013)
Estonia	Tertiary	TER_EST31	Modernisation of street lighting (2012 – 2015)
Finland	Tertiary	TER_FIN3	Energy Auditing Programme in the Service Sector
Finland	Tertiary	TER_FIN15	Energy Efficiency Agreement for the Private Services Sector
Finland	Industry	IN_FIN3	Energy Auditing Programme in the Industry and Energy Sectors, the EAP
Finland	Industry	IN_FIN14	Energy Efficiency Agreement of Industry
Germany	Industry	IN_GER49	Energy consultations for SMEs
Germany	Transport	TRA_GER33	Car scrapping
Germany	Cross-cutting	CC_GER49	Climate Action Programme 2020
Lithuania	Households	HOU_LT8	Programme for the renovation/upgrading of multi-apartment buildings
Lithuania	Households	HOU_LT12	Energy efficiency improvement in the household sector (Special programme for climate change)
Lithuania	Tertiary	TER_LT3	Thermal Technique of Envelopes of the Buildings During 2005-2013
Lithuania	Tertiary	TER_LT11	EU Structural Funds 2007–2013
Lithuania	Tertiary	TER_LT30	Programme for Improving Energy Efficiency in Public Buildings
Lithuania	Industry	IN_LT3	Structural funds for more efficient cogeneration and heat supply systems
Lithuania	Industry	IN_LT5	Lithuanian Environmental Investment Fund
Lithuania	Transport	TRA_LT7	EU Structural Funds 2007-2013: Comprehensive development of ecological public transport
Luxembourg	Industry	IN_LUX10	Voluntary Agreements (2011-2020)
Luxembourg	Cross-cutting	CC_LUX9	EU-related: Energy Efficiency Directive (EED) - Directive 2012/27/EU - Energy Efficiency Obligation Scheme
Luxembourg	Cross-cutting	CC_LUX13	Climate Bank
UK	Households	HOU_UK23	Smart Metering and Billing
UK	Cross-cutting	CC_UK34	EU-related: Energy Efficiency Directive (EED) - Directive 2012/27/EU - Energy Savings Opportunity Scheme (ESOS)
UK	Cross-cutting	CC_UK36	Private and Social Sector Regulation (England and Wales)

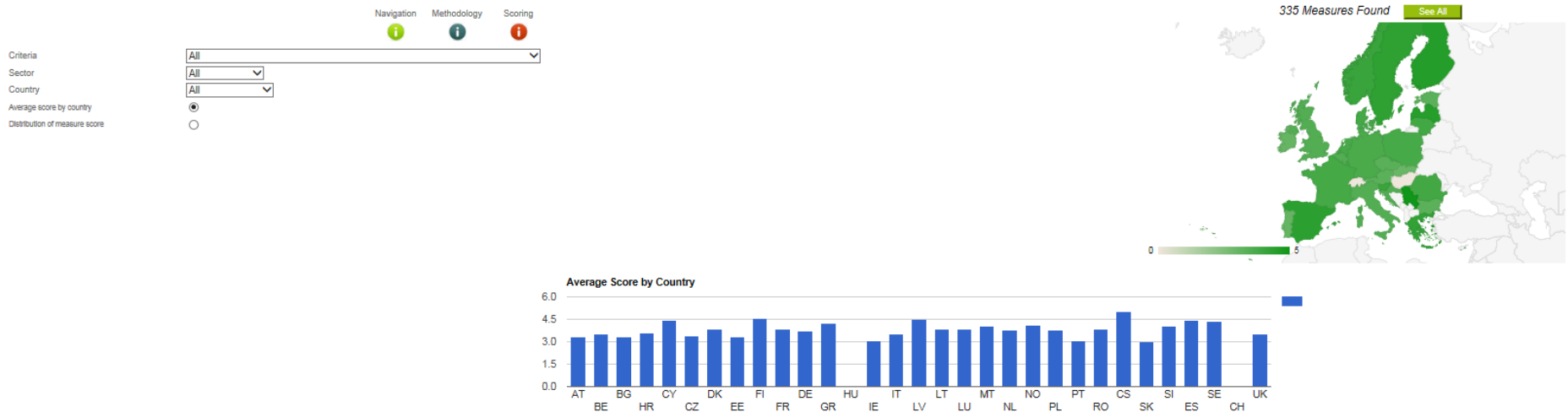
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Present status of the successful policies tool



- Status April 2018: 335 measures in the successful measure tool
→ 10.8 measures per country (31 countries)
- Possible number: up to 5 measures per sector
- Status in mid 2015: 298 measures (29 countries)
- Starting year of the policies in the tool: majority from 2007-2010, some measures from 2011-2013, very few measures beyond.




All partners who did not update the successful measure tool, are kindly asked to make the update soon.

Update of the successful policies facility can be done online → see MURE guidelines

Database Management

- [Add a new measure](#)
- [Modify a measure](#)
- [Delete a measure](#)
- [Download measure description](#)
- **Successful measures**
- [Statistic Table](#)
- [Quality check control](#)
- [Quantitative evaluation check control](#)
- [Measure interaction matrix](#)

Download Guidelines  Open Guidelines
 Download Document Template

Successful Measures - Step 1 of 2

Select the country, select the number of measures to be set up , then push the button Continue

[Click here to open the guideline](#)

Country:

Number of successful measures (max 5):

Successful Measures - Step 2 of 2

Select the measures and the score for each criteria, then push the button Confirm

[Click here to open the guideline](#)

Measure:		C1:	C2:	C3:	C4:	C5:	C6:	C7:	C8:	C9:	C10:	C11:	C12:
GER6	*	4	4	3	2	1	5	4	4	4	2	3	4
GER8	*	5	4	4	4	2	3	4	4	3	3	4	4
GER33	*	5	3	3	4	2	5	3	4	5	4	4	5
	**	1	1	1	1	1	1	1	1	1	1	1	1
	**	1	1	1	1	1	1	1	1	1	1	1	1

* Existing measure - ** New occurrence to configure

Evaluation Criteria - Legenda	
C1	High impact / high number of applicants
C2	Cost efficiency for the implementor / necessary administrative support
C3	Potential for market transformation and for promotion of energy service market
C4	Suitability to overcome barriers for energy efficiency
C5	Ease and stability of re-financing (only relevant for financial measures)
C6	Persistency of the savings induced by the measure
C7	Transferability between countries
C8	Link other measures / policy packages
C9	Some experience with measure
C10	Avoidance of negative side-effects
C11	Support of positive side-effects
C12	Ease of acceptance by relevant stakeholders

Criteria for the pre-choice of measures:

- Only high and medium impact measures
- Measures with some experience
- Focus on ongoing and not too old measures.
- Representation of several measure types.

Thank you for your attention

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[**www.odyssee-mure.eu**](http://www.odyssee-mure.eu)