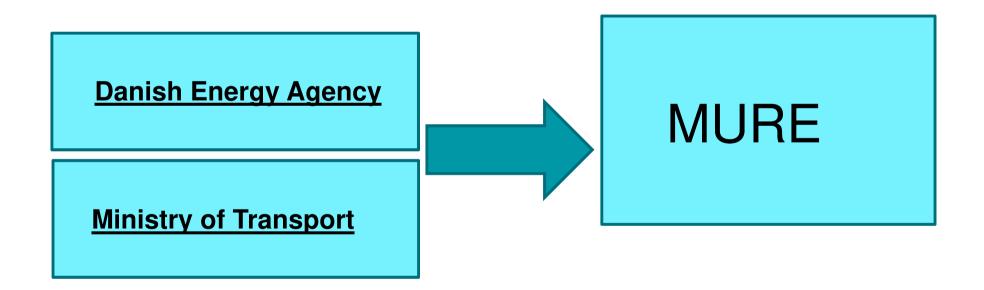




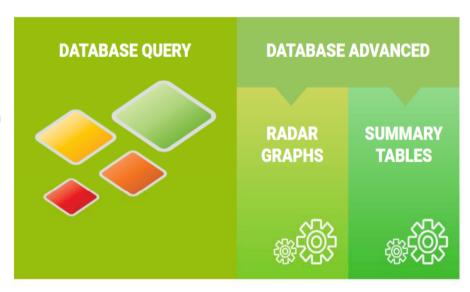
MURE database

Advisor Morten Ladegaard Petersen National training seminar – May 2018

MURE database sources





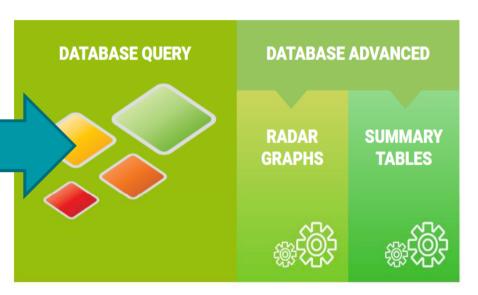




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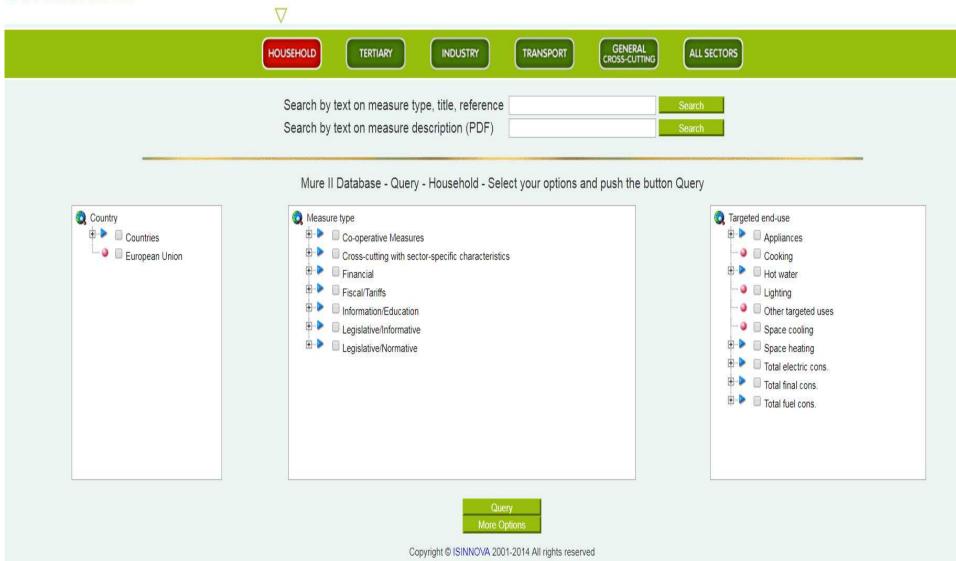


ABOUT THE MURE DATABASE

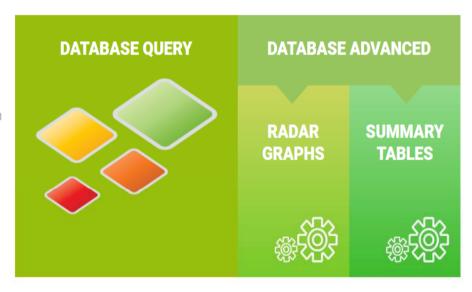




























Policies by Topics

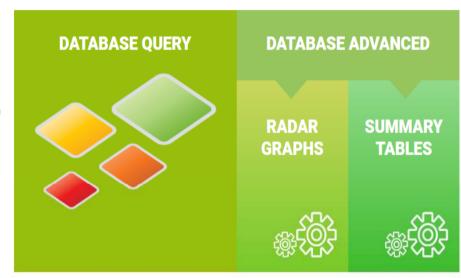
	Measures on SMEs	Energy management		Promotion of energy services	Promotion of bioenergy for heating	Reduction of the transport demand	Promotion of non-conventionally fuelled vehicles	Measures on public procurement	Measures on energy efficiency and renewable energy in buildings	Total Measures	% on Total
Austria	<u>3</u>	1	<u>6</u>	1	<u>3</u>	<u>7</u>	2	<u>0</u>	<u>6</u>	<u>23</u>	52%
Belgium	<u>5</u>	<u>6</u>	<u>5</u>	<u>0</u>	<u>6</u>	<u>6</u>	<u>0</u>	<u>0</u>	<u>20</u>	<u>38</u>	56%
Bulgaria	<u>11</u>	7	<u>5</u>	2	<u>6</u>	8	1	1	<u>18</u>	<u>45</u>	65%
Croatia	<u>13</u>	<u>4</u>	<u>3</u>	2	7	<u>11</u>	<u>11</u>	<u>3</u>	<u>28</u>	<u>65</u>	82%
Cyprus	<u>5</u>	1	3	2	<u>5</u>	4	<u>3</u>	1	<u>11</u>	<u>22</u>	48%
Czech Republic	<u>6</u>	<u>0</u>	<u>3</u>	1	8	4	1	2	23	<u>34</u>	48%
Denmark	4	<u>3</u>	<u>5</u>	<u>0</u>	2	1	1	<u>0</u>	<u>6</u>	<u>17</u>	48%
Estonia	<u>17</u>	<u>3</u>	9	1	4	<u>20</u>	4	3	<u>31</u>	<u>78</u>	52%
European Union	8	<u>3</u>	2	4	1	1	2	4	<u>10</u>	<u>32</u>	29%

0&A



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.









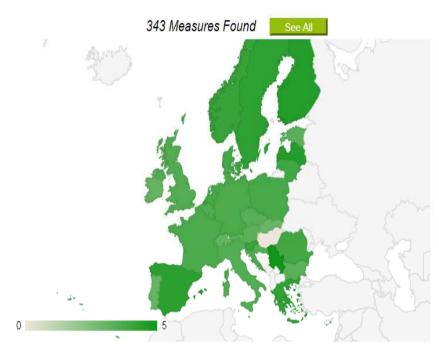


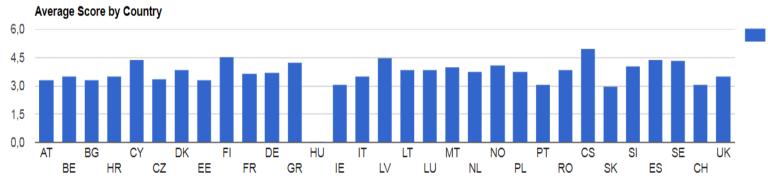


IMPACT EVALUATION



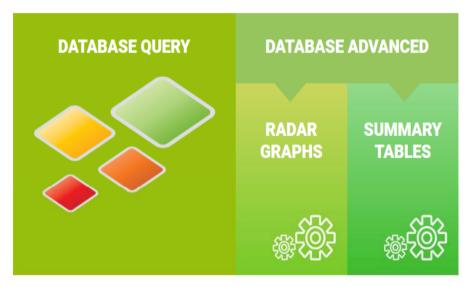








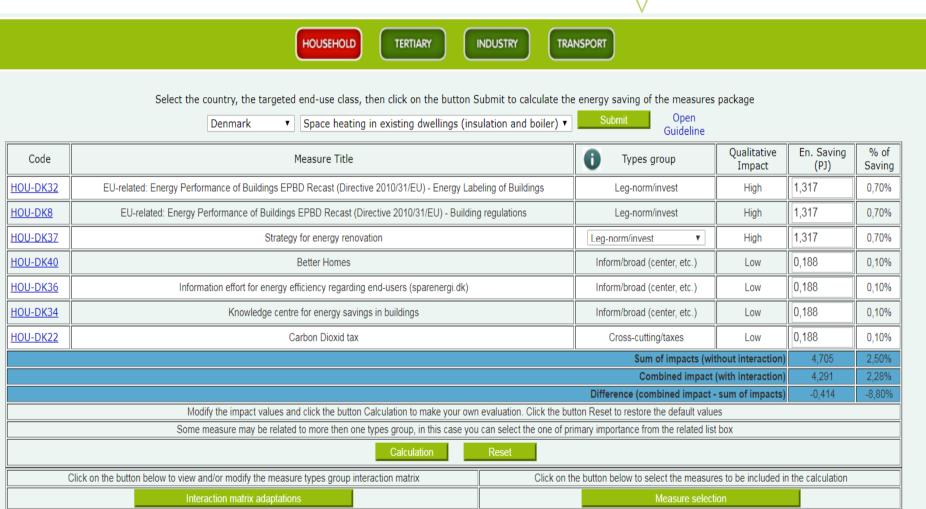
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POLICIES BY TOPICS SUCCESSFUL POLICIES

POLICY INTERACTION POLICY MAPPER POLICY SCOREBOARD

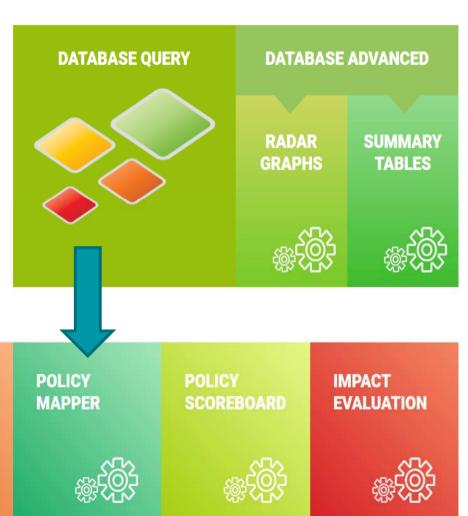
IMPACT EVALUATION



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ABOUT THE MURE DATABASE

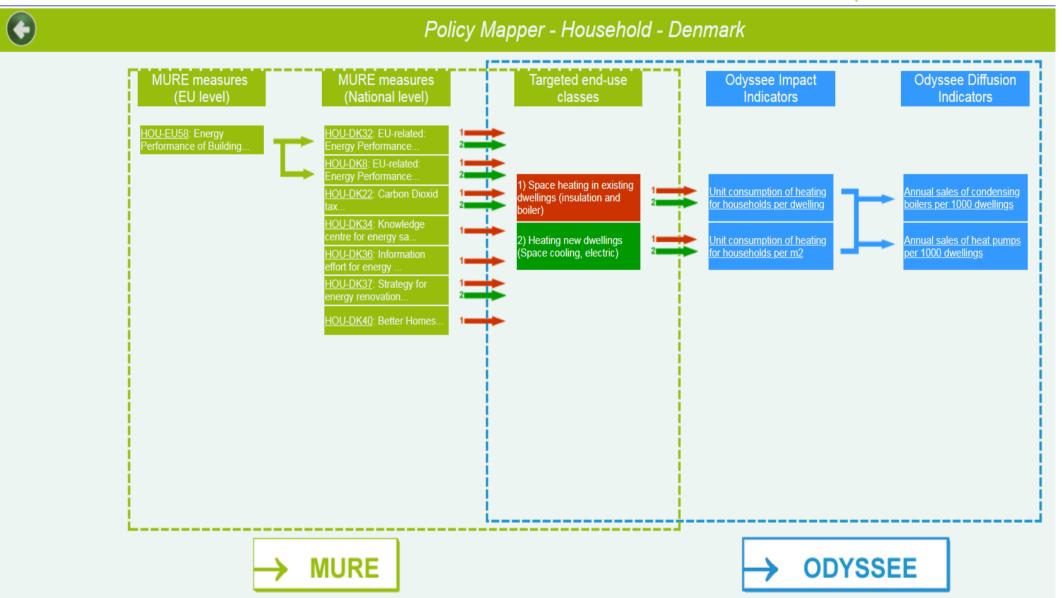












POLICY

INTERACTION



POLICIES BY

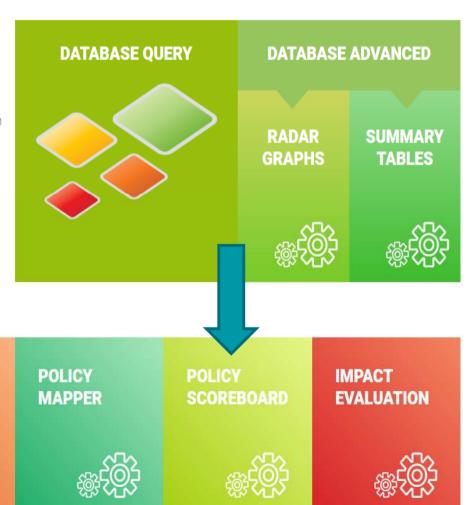
TOPICS

ABOUT THE MURE DATABASE

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SUCCESSFUL

POLICIES





Policy Scoreboard

The objective of the energy efficiency scoreboard tool is to assess and score the energy efficiency policies of the EU28 by country and by sector (households, transport, industry and services). The scoreboard shall provide for a suitable presentation of policy results and impacts through an energy efficiency policy scoreboard. The main advantage of such scoreboards is to present progress in policy development according to selected criteria over time and across countries.

The scoring methodology is based on the energy efficiency measures gathered in the MURE database.

There are four main scoring approaches presented:



Output-based scoring (based on energy savings): This scoreboard makes use of the information in the MURE database on energy savings ("policy output") and compares the savings with the final energy consumption of the sector or total final energy consumption for a given year (at present 2010). By default the scoring period comprises measures from 2000 to present but other periods can be selected.



Output-based scoring (related to energy efficiency potentials): This scoreboard makes also use of the information in the MURE database on energy savings achievable with the present policies ("policy output") but compares the savings with the energy efficiency potentials at the time horizon 2030. By default the scoring period comprises measures from 2013 to present but other periods can be selected.



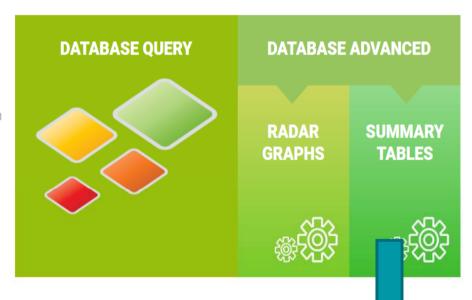
Output-based scoring (related to 2020 energy efficiency targets): This scoreboard makes also use of the information in the MURE database on energy savings achievable with the present policies ("policy output") but compares the savings with the energy efficiency targets at the time horizon 2020. By default the scoring period comprises measures from 2013 (the starting year of the EED) to present but other periods can be selected. The targets are either calculated as a flat 20% target for all countries or by taking the EED targets provided by the different EU Member States.



Input-based scoring: This input-based scoreboard makes use of the information in the MURE database on the inputs to energy efficiency policies (e.g. amount of final subsidies) and normalizes the inputs with respect to the size of the country (e.g. Gross Domestic Product or Population) if necessary or other relevant parameters. By default the scoring period comprises measures from 2000 to present but other periods can be selected.

At present we have implemented on an exploratory basis i nputs to financial subsidies in the residential sector normalized to the GDP of the respective country. The horizontal axis is in units of 0.01% of the GDP that countries are subsidizing energy efficiency options.









Recommended evaluation methods and actual measures distribution of evaluation methods per measure type - Household



Sector Household ▼

***= the method is recommended, **= the method provides reliable results, *= it is possible to use this method if the others are not possible, nr.= number of measures														
			Bottom Up						Bottom Up	Top Down	Тор І	Integrated BU/TD		
•			Direct measurement		Billing analysis	Enhanced engineering estimates	Mixed deemed and ex-post estimate	Deemed estimate unit savings	Stock modelling	Diffusion indicators	Specific consumption indicators	Econometric modelling	Integrated BU/TD methods	
Legislative/Normative														
Mandatory Standards for Buildings														
28	1	Energy Performance Standards	*	0	*** 1	** 4	7	4	*** 3	** 0	*** 3	1	*** 5	
11	2	Minimum thermal insulation standards	*	0	0	** 2	2	0	*** 0	** 0	*** 1	0	6	
Regulation for Heating Systems and hot water systems														
4	3	Minimum efficiency standards for boilers	*	0	0	0	1	*** 1	*** 0	0	*** 0	0	2	
0	4	Compulsory replacement of old boilers above a certain age	*	0	0	0	0	***	*** 0	.0	*** 0	0	1.0	
0	5	Thermostatic zone control	**	0	0	0	0	***	0	*** 0	*** 0	0	0	





Impact Evaluation measures with the method Mixed deemed and ex-post estimate - Household - All end-uses - All countries

Code	Title		Туре	Starting Year	Semi- quantitative Impact	NEEAP Measure	EU-related Measure	- II ZU ID/ZUZU		Description
HOU-BEL29	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Flanders - Insulation and energy performance regulation for residential buildings	Ongoing	Legislative/Informative, Legislative/Normative	2006	High	No	YES	16,32	0	YES
HOU-BEL30	Wallonia - Financial incentives for RUE investments in buildings	Ongoing	Financial	2005	High	No	No	13,82	0	<u>YES</u>
HOU-BEL8	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Wallonia - Thermal regulation for buildings	Ongoing	Legislative/Normative	2008	High	No	<u>YES</u>	3,48	0	<u>YES</u>
HOU-CR4	FZOEU Programme – Renewable Energy Sources in Households	Completed	Financial	2006	Medium	No	No	0	0	<u>YES</u>
HOU-EST30	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Standby mode of appliances	Ongoing	Legislative/Normative	2010	Low	No	YES	0	0	YES
HOU-FIN1	Window Energy Rating System	Ongoing	Information/Education	2006	High	Yes	No	0,33	0	YES
HOU-FIN30	Promotion of heat pumps	Ongoing	Information/Education	2000	High	Yes	No	27,25	0	YES
HOU-FRA16	one-stop-shops ("PTRE, PRIS & EIE")	Ongoing	Information/Education	2013	Medium	Yes	No	0	0	YES
HOU-FRA31	Zero-rated eco-loan / "prêt à taux zéro"	Ongoing	Financial	2009	Medium	Yes	No	8	0	<u>YES</u>

Thank you!

Questions?

Contact information

mdp@ens.dk