



Co-funded by the Horizon 2020 programme
of the European Union



ODYSSEE-MURE

ODYSSEE-MURE

Second regional meeting, 12 November 2020

MURE database and tools update status

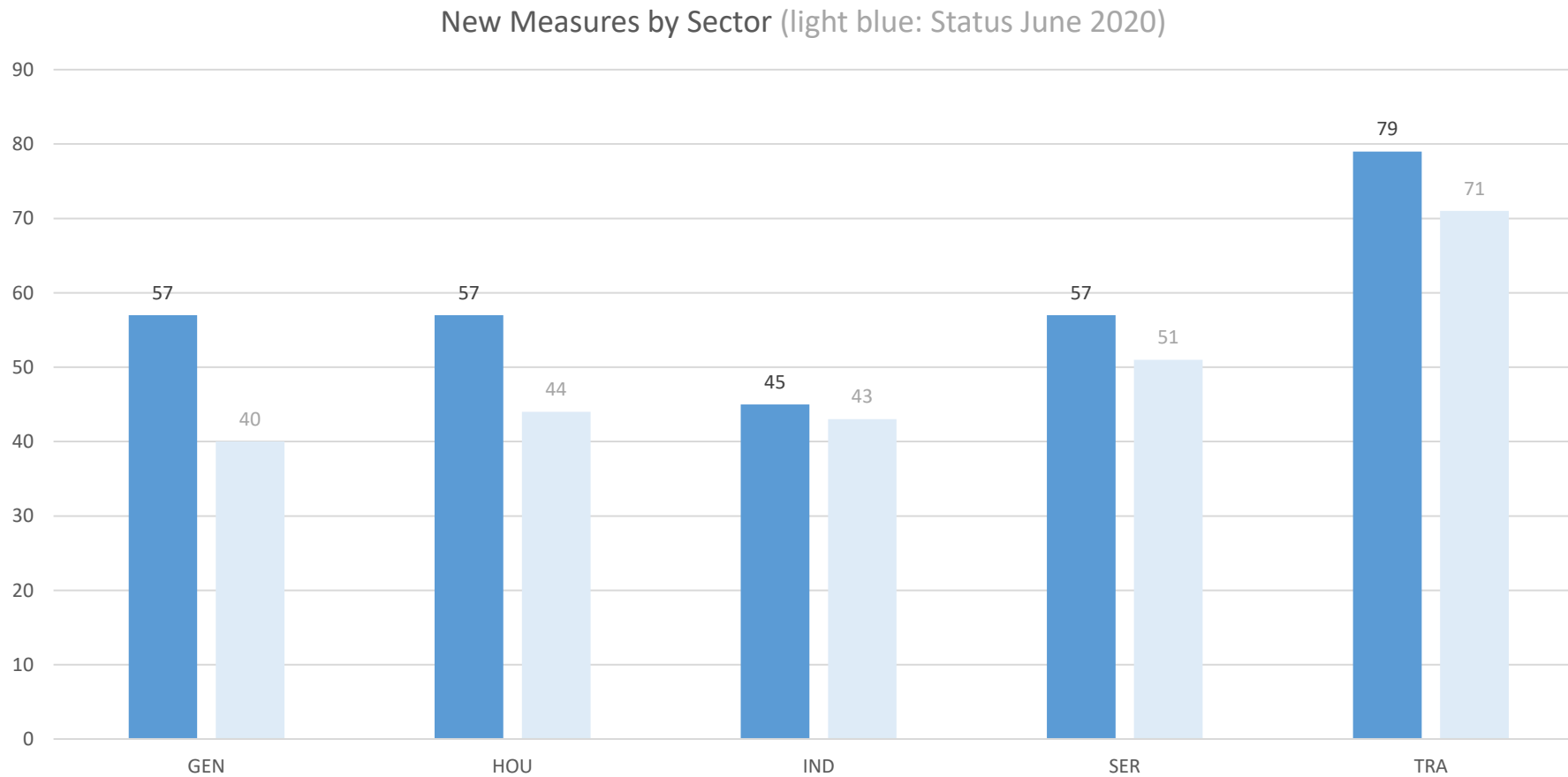
Matthias Reuter, Barbara Schlomann, Wolfgang Eichhammer, Fraunhofer ISI

Status of the MURE update

- After first update cycle of MURE feedback about completion was requested
 - 21 responses in total (14 NTs reported completion)
- In total 2691 measures included in the database
 - General cross-cutting: 444
 - Households: 662
 - Industry: 368
 - Services 615
 - Transport: 602

Status of the MURE update

- Measures newly added (since Dec. 2019) (In total: 295)



Status of quality control

- NTs were asked to use the “semi-public” quality control tools (in May 2020)
 - *Quality Check Control Tool*
 - *Directives Coverage Tool*
- NTs received feedback on newly added measures (measure validation)
 - NTs were mainly asked to complete information (short description, general description, etc.) → After that measures were published
- NTs received feedback on measures with “suspiciously” high impacts
 - Implementation of this information will be checked again (sending reminder to NTs)

Status of quality control

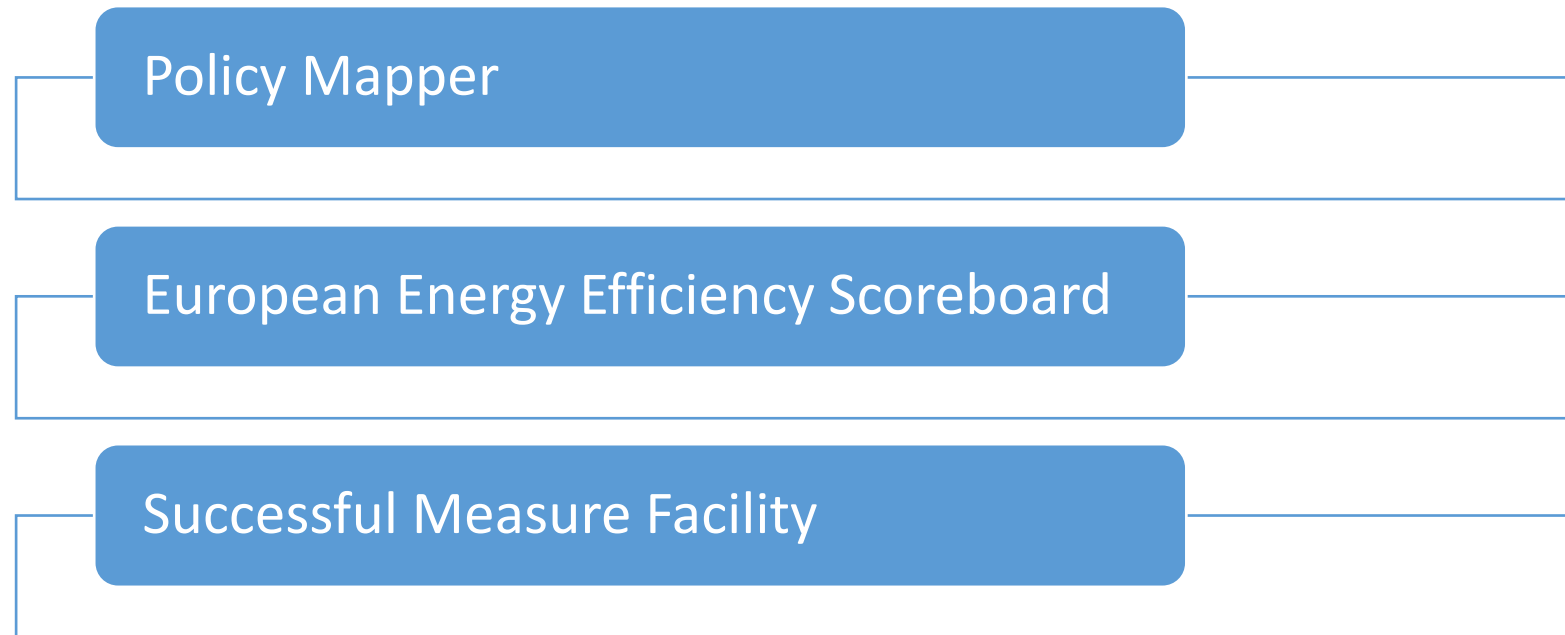
- External quality control
 - *Jean-Sebastièn Broc* will perform the quality control (instead of Jan Rosenow)
 - Quite comprehensive check
 - Not yet completed (in the course of November)
- Feedback about missing measures etc. to the NTs

Next steps in MURE

- Completion of external quality control (planned in November 2020)
→ Feedback will be send to the NTs
- Next update cycle in January to March 2021 → NTs will be informed on time
- Integration of new descriptors into the database for WP4 (explicitly identifying measures targeting “energy poverty” and “sufficiency”)
→ To be filled out by the NTs in the next update cycle
- NTs sometimes a bit hesitant with feedback. Please let us know, when updates are completed → Survey will be send in follow-up email

Status of tool development

- 3 MURE tools have been developed in the new MURE environment. One tool is under investigation (evaluation facility)



Status of the 3 tools

- Policy mapper: under validation. Some problems with the automatic connection to MURE database.
- European Energy Efficiency Scoreboard: new scores to be uploaded. Some functionalities remain to be added.
- Successful Measures Facility: Almost ready. Explanatory texts, description of methodology have been added. Some minor adjustments of the interface ongoing.

-> Publication of all facilities planned for end of November 2020

The policy mapper, linking policies and indicators



Welcome to the ODYSSEE-MURE policy mapper

The objective of this tool is to map policies in the **MURE database** to their respective end-uses, highlighting thus policies which are likely to interact among each other. The second objective is to link policies and top-down indicators calculated in the **ODYSSEE database**, which evaluate in an aggregate manner policy impacts."

How to use it ?

- First select one country
- Choose one of the 2 entries:
 - Query by policies , then select one sector and one or several end-uses
 - Query by indicators, then select one sector and one indicator

QUERY BY POLICY:

Select one sector and one or several end-uses

Results appear in the main screen through a Sankey diagramme linking policies, end-uses and the indicators.

To visualise indicators corresponding to the end-uses selected, click on the button "Graphs"

QUERY BY INDICATORS:

Select one sector and one indicator corresponding to one end-use

A graph corresponding to the selection will appear automatically in the page, with policies targeted the end-use.

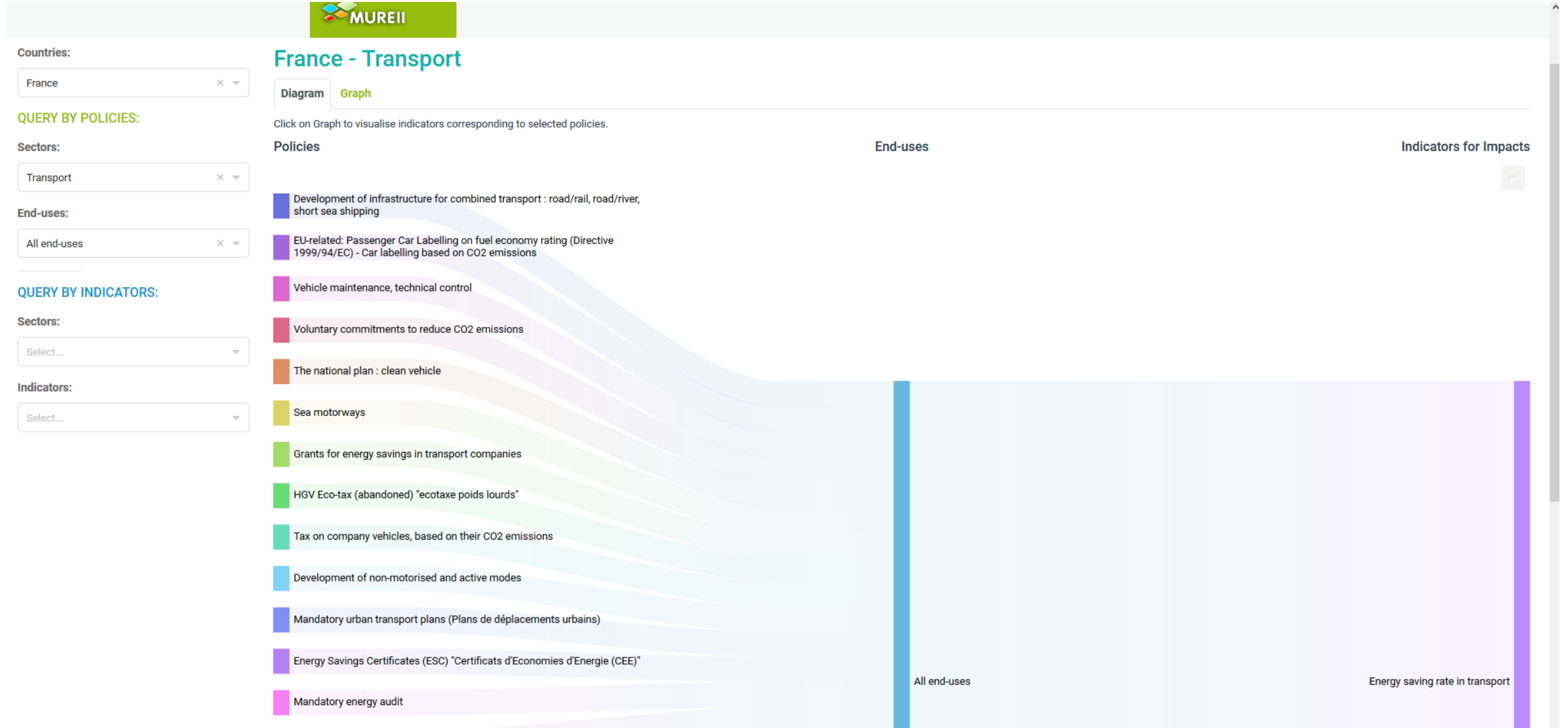
Please note that only ongoing policies and measures are presented in this tool.

<https://www.measures.odyssee-mure.eu/policy-mapper-efficiency-tool.html#/>

The policy mapper, main principles

- Automatic connexion to MURE and ODYSSEE databases.
- 2 possible entries:
 - ✓ Query by policy : The user selects one Country/Sector/End-use
 - ✓ Visualisation of policies through a diagram & graphs for indicators
 - ✓ Query by indicator: The user selects one Country/Sector/Indicator
 - ✓ Visualisation of the indicator through a graph with policies below

The policy mapper, Screen 1



The policy mapper, screen 2



Countries:

France

QUERY BY POLICIES:

Sectors:

Transport

End-uses:

(unknown)

QUERY BY INDICATORS:

Sectors:

Transport

Indicators:

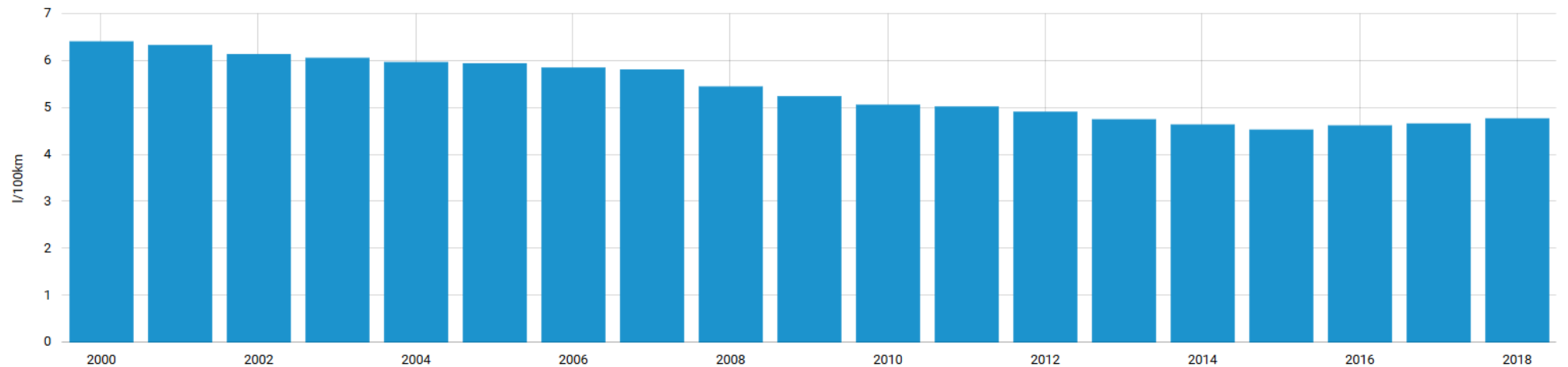
Litres per km

France - Transport

Energy policies corresponding to the end-uses selected in the menu are proposed under the graphs. The left side of the policy bars correspond to the measure start. Click on the title of the measures to see its description.

New vehicles

Test specific consumption of new cars (test values)



EU-related: Promotion of clean and energy-efficient road transport vehicles (Directive 2009/33/EC) - European regulation on CO2 emissions of ne

Measures in favour of car sharing and carpooling

Label for vehicle depending on air quality (

Bicycle kilometer allowance (indemnité k

Tax reduction for companies providing fre

Electric bicycle bonus ("bon

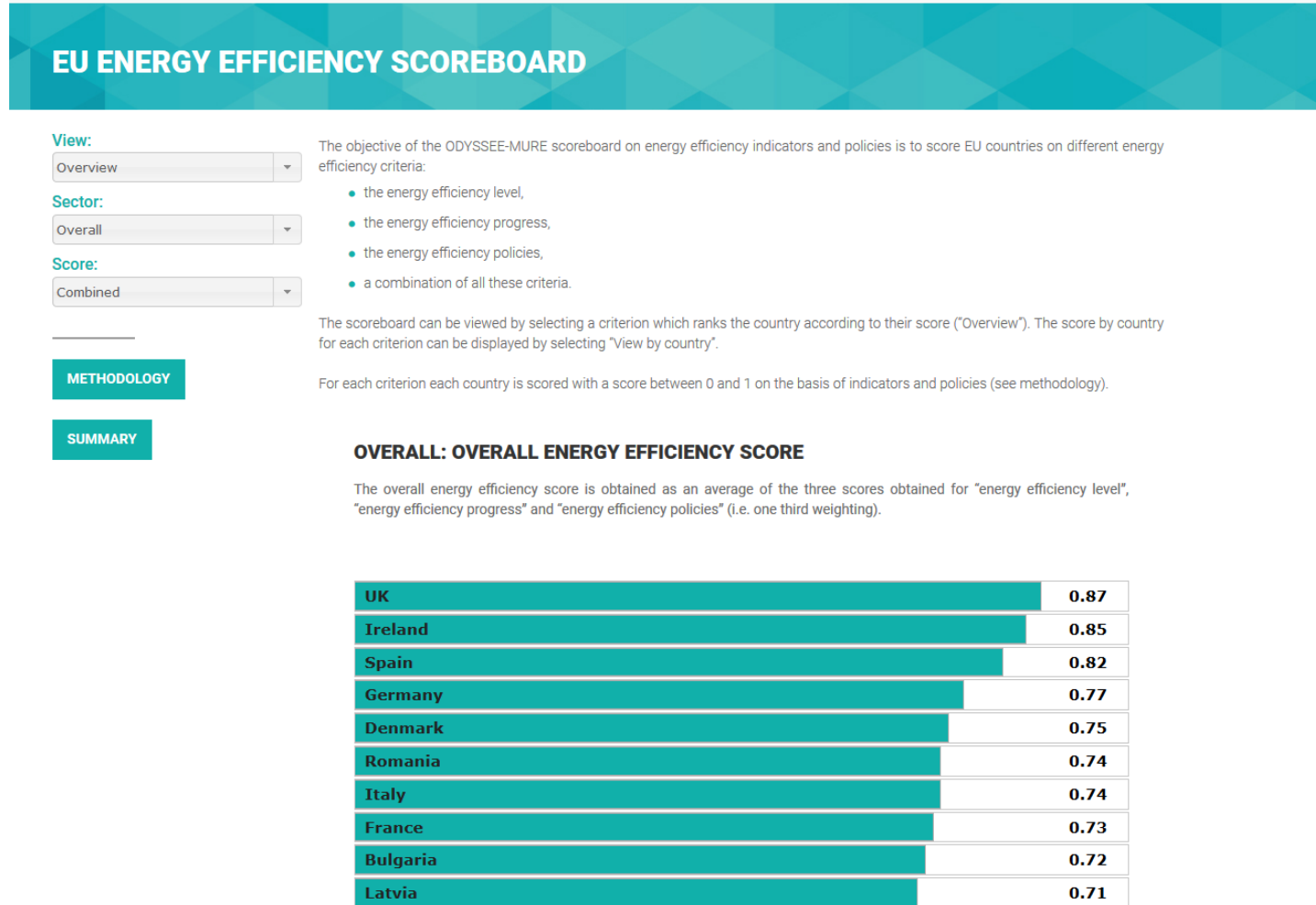
The policy mapper, what remains to do?

- Quite finalised.
- The automatic connexion to the database should be checked again (API)
- Checking of the format (in particular for countries with a lot of policies) – the integration into the website can reduce the screen !
- **Online end of November → NTs will be invited to give feedback**

Testversion:

<https://www.measures.odyssee-mure.eu/policy-mapper-efficiency-tool.html#/>

European Energy Efficiency Scoreboard, scoring EU countries according to criteria



<https://www.odyssee-mure.eu/data-tools/scoring-efficiency-countries-test.html>

The European Energy Efficiency Scoreboard, main principles

- Scores EU policies, Indicators (in level, trends) or both
- Policy scores are automatically calculated into the MURE database.
- Indicator scores are calculated through Excel due to adjustments that are done (eg estimation of missing data mainly).
- Two entries:
 - ✓ Overview: ranking for all countries by sector
 - ✓ By country: ranking for one or several countries by sector, for the four score types (trend, level, policies, combined)

The European Energy Efficiency Scoreboard, screen 1

View:

Overview ▾

Sector:

Transport ▾

Score:

Level ▾

TRANSPORT SCORE: ENERGY EFFICIENCY LEVEL

This scoreboard shows the ranking of countries in terms of energy efficiency level. Each country is scored with a score between 0 and 1 on the basis of a variety of indicators.

Click on a country name to see/hide the indicator rankings.

SEE INDICATORS →

METHODOLOGY

SUMMARY

Italy	1.00
Slovakia	0.96
UK	0.94
Portugal	0.94
France	0.93
Spain	0.89
Finland	0.89
Austria	0.87
Sweden	0.86
Croatia	0.84
Poland	0.82
Greece	0.82
Czech Republic	0.79
Belgium	0.78

Transport level	Car efficiency	Road freight per tkm	Air per passenger	% public transport	% rail & water (freight)
1: Italy	2	26	5	13	19
2: Slovakia	8	11	23	5	12
3: UK	1	24	28	25	21
4: Portugal	5	15	11	26	24
5: France	4	21	17	15	15
6: Spain	11	14	15	9	17
7: Finland	7	22	14	23	6
8: Austria	12	7	6	4	8
9: Sweden	10	18	9	17	4
10: Croatia	9	17	25	7	16
11: Poland	19	4	4	6	18
12: Greece	6	27	2	14	26

The European Energy Efficiency Scoreboard, screen 2

View:

By country

TRANSPORT

Sector:

Transport

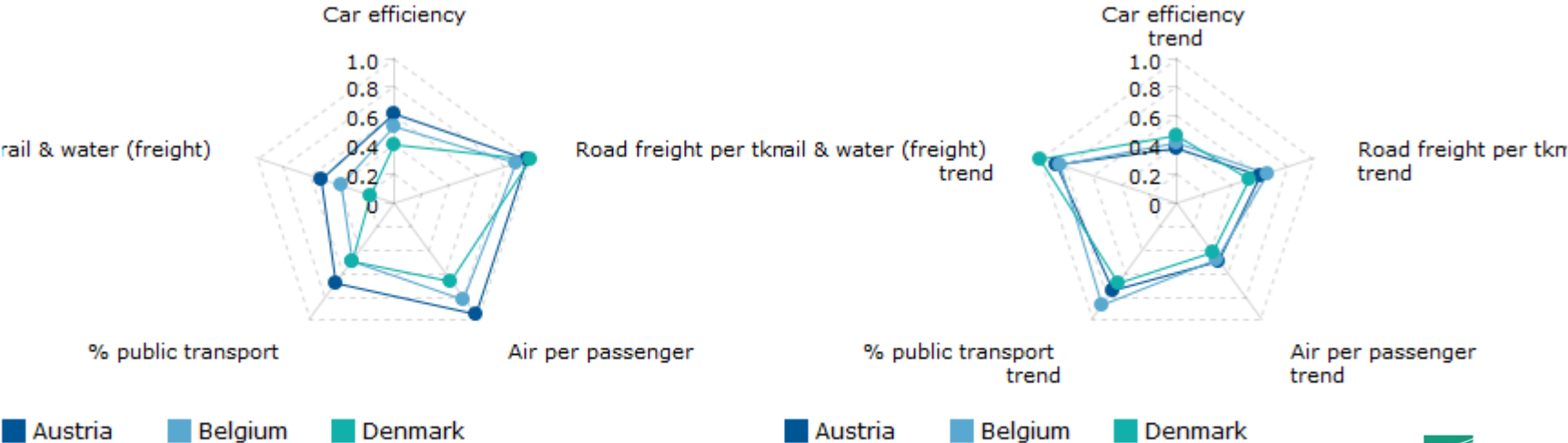
Country:

Denmark

Ranking	Level	Trend	Policies	Combined	
Austria	8 / 29	16 / 29	20 / 29	21 / 29	
Belgium	14 / 29	9 / 29	19 / 29	16 / 29	
Denmark	25 / 29	13 / 29	9 / 29	11 / 29	
Highest score (benchmark)	Italy	UK	Spain	Spain	

METHODOLOGY

SUMMARY



The European Energy Efficiency Scoreboard, Policy scores

- Scores automatically calculated into the MURE database. A simple button (+ Update) launches the calculation.
- Only Fraunhofer can do this calculation.
- Enerdata will be responsible for uploading indicator & policy scores into the tool (as the indicator scores are not automatic)

Mure ≡ Score managements

MAIN NAVIGATION

- > Lists
- > Measures
- > Successful measures
- > Score management
- > Users
- > Quality

Scores

Country	Household		Industry		Services		Transport		Total	
	score i	score norm	score i	score norm	score i	score norm	score i	score norm	score i	score norm
Austria	1.55	12.38	1.57	5.59	0.53	3.88	2.88	25.09	6.52	10.67
Belgium	4.16	40.77	5.92	23.35	1.91	23.91	3.15	28.08	15.13	28.89
Bulgaria	2.91	27.16	1.54	5.50	1.29	14.94	3.76	34.98	9.50	16.98
Croatia	1.58	12.75	0.91	2.93	0.95	10.00	3.06	27.08	6.50	10.64
Cyprus	1.29	9.57	0.66	1.89	0.78	7.56	3.74	34.76	6.47	10.58
Czech Republic	2.61	23.91	1.51	5.37	0.88	9.03	1.16	5.77	6.16	9.91

[+ Update](#)

The European Energy Efficiency Scoreboard, what remains to do?

- Check all the API to be sure that there is no connexion problems between the DB and the tool (this approach is innovative so we need to check)
- Upload scores (a simple interface will allow to do this)
- Policy Scoreboard: Show measures composing the score
Check on some countries (notably Switzerland)
- Finalisation Scoreboard methodology document (normalisation of scores)
- **Online end of November → NTs will be invited to give feedback**

Testversion:

<https://www.odyssee-mure.eu/data-tools/scoring-efficiency-countries-test.html>

The Successful Policies Facility



Criteria :

All

Sector :

Household

Targeted end-use :

All end-uses

Search

Below are presented the top-ten countries with successful and innovative measures according to the criteria/sector/end-use selected in the left menu. To view detailed measures and descriptions for one country, click on it in the map.

Top 10 countries

Slovenia	3.9
Spain	3.9
Greece	3.9
France	3.9
Croatia	3.8
Finland	3.8
Ireland	3.7
Cyprus	3.7
Norway	3.7
Sweden	3.6



The Successful Policies Facility, main principles

- Identify successful or innovative measures according to 12 criteria
- Presentation of the 10-top countries & a map displaying all the scores.
- Presentation of most innovative measures in an overview table.
- Detailed information on measures retrieved directly from MURE

The Successful Policies Facility, screen 1



Criteria :

All

Sector :

Household

Targeted end-use :

All end-uses

Search

Here are the measures corresponding to the criteria and sector selected in the left menu. The average score per measure correspond to the score given for each 12 criteria.

Code	Title	Type	Average
HOU-FR0631	Energy Transition Tax Credit (CITE) (ex- Sustainable Development Tax Credit)	Fiscal	4.1
HOU-FR0606	Zero-rated eco-loan / "prêt à taux zéro"	Financial	3.5
HOU-FR0601	One-stop-shops (PRIS, EIE, FAIRE)	Information/training	4.0

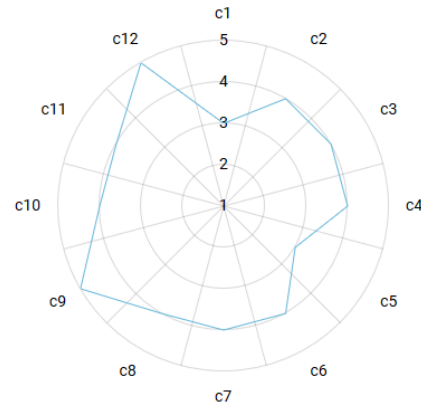
← Back

One-stop-shops (PRIS, EIE, FAIRE) - Measure Detail

Measure Code : HOU-FR0601

Country : France

Title : One-stop-shops (PRIS, EIE, FAIRE)



- c1 : High impact / high number of applicants
- c2 : Cost efficiency for the implementer
- c3 : Potential for market transformation and energy services
- c4 : Suitability to overcome barriers for energy efficiency
- c5 : Ease and stability of re-financing financial measures
- c6 : Persistency of the savings induced by the measure
- c7 : Transferability between countries
- c8 : Link to other measures / policy packages
- c9 : Level of experience with the measure
- c10 : Avoidance of negative side-effects
- c11 : Positive side-effects
- c12 : Ease of acceptance by relevant stakeholders

By clicking on a policy, the user can read the description of the measure & a spider graph representing the scores of the 12 criteria.

When only one criteria is selected in the left-menu, no spider graph is available.

The Successful Policies Facility, how does it work?

- Directly into the MURE admin part, NT can select one or several policies by sector they consider as innovative.
- For each criteria, a grade between 1 to 5 is given to each measure.

The screenshot displays the MURE admin interface. The top part shows the 'Successful Measures' form with a sidebar navigation menu on the left. The form includes a 'Measure' dropdown and several criteria with input fields for scores (1-5):

- High impact / high number of applicants: 1
- Cost efficiency for the implementer: 2
- Potential for market transformation and energy services: [empty]
- Suitability to overcome barriers for energy efficiency: [empty]
- Ease and stability of re-financing financial measures: [empty]
- Persistence of the savings induced by the measure: [empty]

A blue arrow points from the form to a table below. The table is titled 'Successful Measures' and has tabs for 'General cross-cutting', 'Household', 'Industry', 'Services', and 'Transport'. The table columns are: Code, Country, Name, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, Average Score, and a settings icon.

Code	Country	Name	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	Average Score		
GEN-AT0001	Austria	EU-related: Community framework for the taxation of energy products and electricity (Directive 2003/96/EC) - Energy and transport taxes	5	5	3	3	5	5	5	4	5	3	3	3	4.1		
GEN-AT0005	Austria	klimaaktiv - National programme for climate protection	4	3	5	5	4	3	4	4	4	4	5	5	4.2		
GEN-AT0006	Austria	Energy efficiency obligation scheme for energy suppliers	5	4	5	5	1	4	4	5	2	3	3	2	3.6		

The Successful Policies Facility, what remains to do?

- Methodology, Introduction texts
- Validation of measures with NT
- Online end of November (Update of contents by NTs March 2021)

Testversion:

<https://www.measures.odyssee-mure.eu/success-efficiency-measures-tool.html#/>

Thank you!

Contact:

matthias.reuter@isi.fraunhofer.de