ODYSSEE-MURE

Latest updates in the ODYSSEE-MURE tools and scoreboard

workshop ENSMOV Plus' project, 20 *March 2024 Budapest*

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ADEME
AGENCE DE LA TRANSITION ÉCOLOGIQUE

TOR = The new proposal 2022-2025 in brief

- **Programme** : LIFE-CET
- **Topic**: Towards an effective implementation of key legislation in the field of sustainable energy policy
- **Duration** : 30 months, starting October 2022
- **Funding** : around 2 M€, 95% direct cost, 7% overhead

- **40 partners of which 18 EnR members, of which 9 Balkans countries, coordinated by ADEME, 30 letters of support including EnR club**

- Updates of ODYSSEE (3) and MURE databases (2) and facilities
- Support in capacity building for EC countries by Croatia and other partners
- Odyssee: New updating process, using more widely EUROSTAT data and horizontal sources
- Integration of a web-based Policy Assessment Tool Policy radar (based on Artificial Intelligence AI/Web scraping methods)
- Dissemination of the Odyssee-MURE/eceee European EE Scoreboard: social media

ODYSSEE-MURE delivers

- KO meeting ODYSSEE-MURE (November 28th 2022) (92 participants)
- First regional Meeting (Hybrid, Zagreb hosted by EIHP, 80 participants, 35 Countries) (April 24-25 th 2023)
- First training meeting to Energy community countries (Hybrid, Zagreb, hosted by EIHP)(April 25-26th)
- First updating (up to 2021 data) of the two data bases (Spring-summer 2023), focus on transport

- New series of deliverables updated until 2021
  - 1 news letter (among 6)
  - Country profiles (2021 data) 26 available)
  - Sectoral profiles (2021 Data) (200 slides with short analysis
  - Series of policies briefs (2) (among 20)
  - Series of Webinars (4) (among 20)
  - 2023 Scoreboard with ECEEE
  - Social media : Videos, rewriting Wikipedia
  - Article for the CORDIS Plateform (March)
  - Participation to EEUSW

- 3 Technical coordination meetings (2 on-line, 1 in presence, FHG-ISI, Karlsruhe (March 2023)

- Adaptation of the ODYSSEE-MURE website to cyber security

Creating an automatic graph expressing EEFP
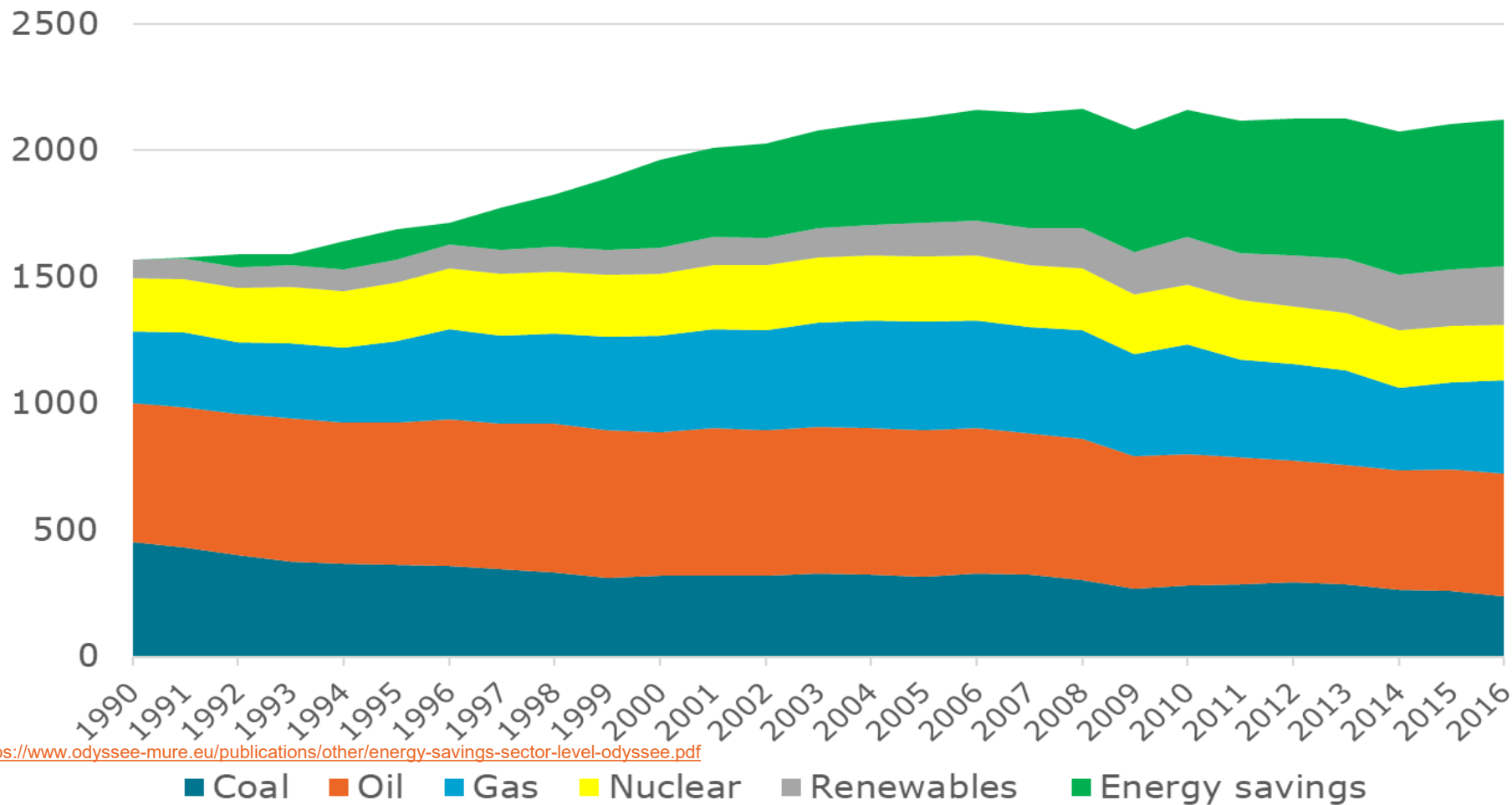
Source : ODYSSEE based on eurostat and national data

ODYSSEE-MURE is in WIKIPEDIA

WIKIPEDIA
The Free Encyclopedia

Search Wikipedia [Search]

Energy efficiency in Europe (study)

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> **This article has multiple issues.** Please help **improve it** or discuss these issues on the **talk page**. *(Learn how and when to remove these template messages)*   [hide]
> - This article **needs additional citations for verification**. *(October 2010)*
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> - This article **contains text that is written in a promotional tone**. *(April 2022)*

The **Energy efficiency in Europe** study is part of the Odyssee project.[1] It aims to monitor energy efficiency progress and CO_2-reduction for the EU-28 countries and Norway, understand the energy demand trends for European countries, compare the countries in their relative energy efficiency performance, as well as to benchmark values, measuring the contribution of innovative energy efficiency and renewables technologies to the Lisbon targets to make Europe more competitive and analyse and evaluate the performance of energy efficiency policies in the different EU Member States and at EU level.

The ODYSSEE MURE is a program coordinated by ADEME and supported under the Intelligent Energy Europe Programme of the European Commission.

Energy efficiency is at the heart of the EU's Europe 2020 Strategy for smart, sustainable and inclusive growth and of the transition to a resource efficient economy. According to EU Commission the EU needs to act now (2011) to get on track to achieve its target while the EU is on course to achieve only half of the 20% objective. The combined effects of full implementation of the measures will generate financial savings of up to €1000 per household

rope's industrial competitiveness; create up to 2 million jobs; and reduce annual greenhouse gas emissions by 740 million tons.[2]

Work programme until end of 2024

- Webinars (continued)

- Policy briefs (Continued)

- Third News letter

- More videos

- New updating ODYSSEE (2022 data) and focus on building and MURE (inclusion of NECP policy impact evaluation for all EU MBS)

- Finalisation and case studies for the Policy Assessment Tool: application to Art. 4 target policies

- Side event at ECEEE

- Second regional meeting (Roma, 25-27 September 2024) kindly hosted by ENEA) Ensmov is invited

List of policy briefs et webinars

Topic bundle Energy Efficiency Directive (EED)	Topic webinar	Speaker
The role of the Energy Efficiency First Principle (EE1) in the EED	Energy efficiency in time of crisis at EU level	02-Enerdata
	Are climate policies and energy efficiency policies increasingly in contradiction? How can energy efficiency first be implemented in climate policies?	03-Fraunhofer
Part 1: Energy Efficiency Targets: are we on the path?/ Part 2: Closing the gap to EED 2030 targets (Art 8-11)	Overall energy efficiency trends and EED targets	02-Enerdata & Fraunhofer
Energy Efficiency Targets: are we on the path?	Trends of Energy Efficiency Indicators in all sectors	13-CRES
	EU energy efficiency trends in the transport sector	02-Enerdata
	EU energy efficiency trends in the household sector	02-Enerdata
Exemplary role of public sector	The role of municipal energy advisors in achieving energy efficiency targets	28-STEM
	The exemplary role of public buildings	32-IEECP
	Incentive schemes for energy efficiency in buildings	17-ENEA
Closing the gap to EED 2030 targets (Art 8-11)	The European Energy Efficiency Scoreboard 2023	03-Fraunhofer
	The European Energy Efficiency Scoreboard 2024	03-Fraunhofer
Heating strategy in the EED	Policy options for efficient domestic water heating in southern Europe	21-EWA
	Energy efficiency indicators for the heating and cooling supply sector	10-TalTech
Energy poverty in the EED	Progress in the alleviation of energy poverty by energy efficiency policies	32-IEECP
	Energy Poverty reflected in MURE measures	25-KAPE
Sufficiency: The "missing article" in the EED	A scoreboard for European sufficiency policies and indicators	12-Motiva
	Evolution of sufficiency policies in the EU	24-GUS

Some topics under discussion in ODYSSEE-MURE

- o Improvements/ modification of ODYSSEE and MURE tools (ex: Successful measures facilities, criteria of evaluation)

- o Energy efficiency first principle graph

- o Methodological issue concerning the technical calculation of the energy efficiency Index ODEX (2010 base year, transport)

- o Specific indicators for EnCs

- o Heat pump saving calculation (position paper)

- o CO_2 variation décomposition

- o UK and Norway data collection updating (or not)

- o Scoreboard 2024 : Integration of new countries (Switzerland, EnC), sufficiency/fuel poverty issues (ex. Romania, Bulgaria, other)

- o sufficiency indicators, poverty indicators

- o Adjustment size

Pay attention, the energy efficiency improvement is still slowing down since 2014 in the EU
Can we define an Energy sufficiency index?
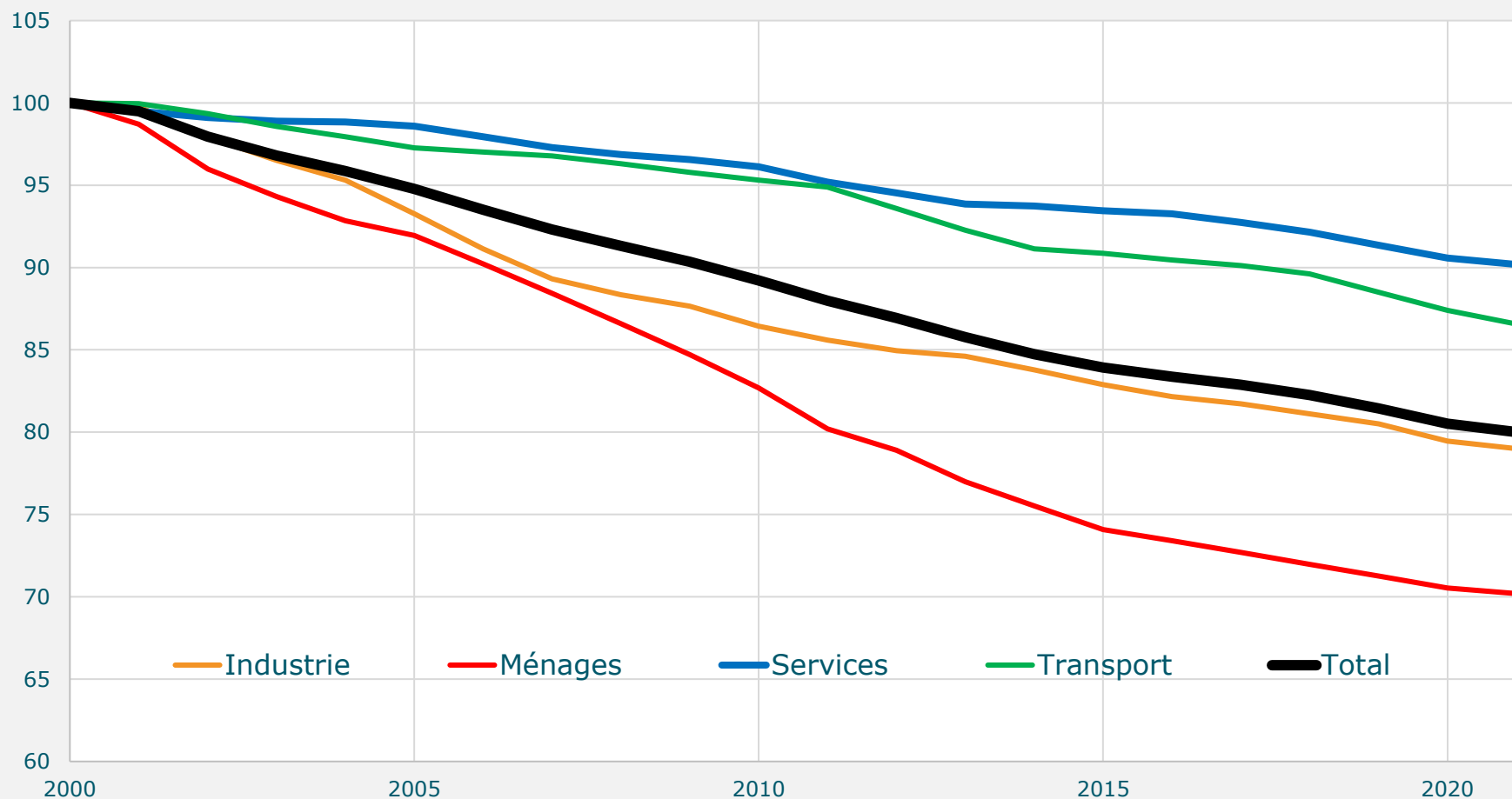
During the last 2 decades, energy savings have offset the impact of economic and demographic growth
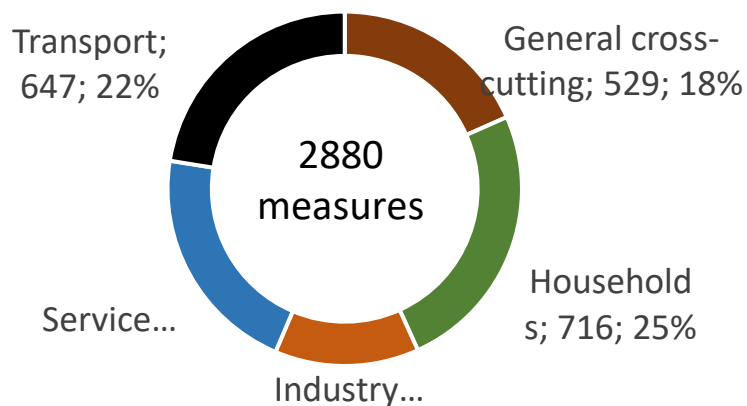

VARIATION FINAL ENERGY CONSUMPTION EUROPEAN UNION MTOE (2000-2021)
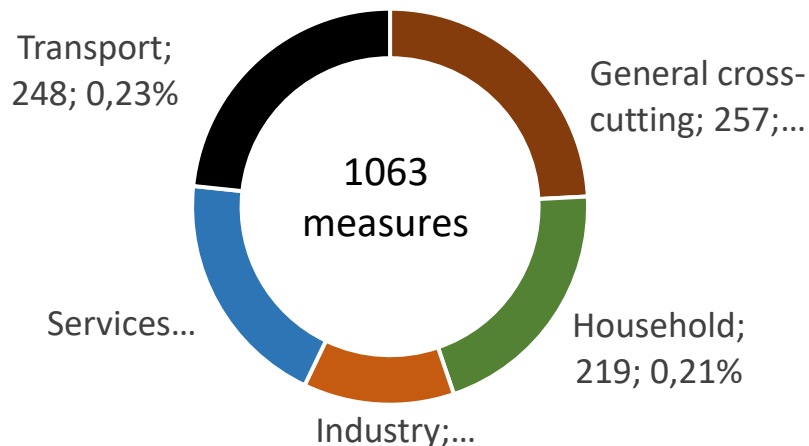
VARIATION ENERGY INTENSITY

XL EXCEL

- Final cons. 2000: 918
- Activity: 180
- Structure: -6
- Energy savings (technical): -211
- Climate: 11
- Other: 44
- Final cons. 2021: 936

Source : ODYSSEE : based on Eurostat and national data
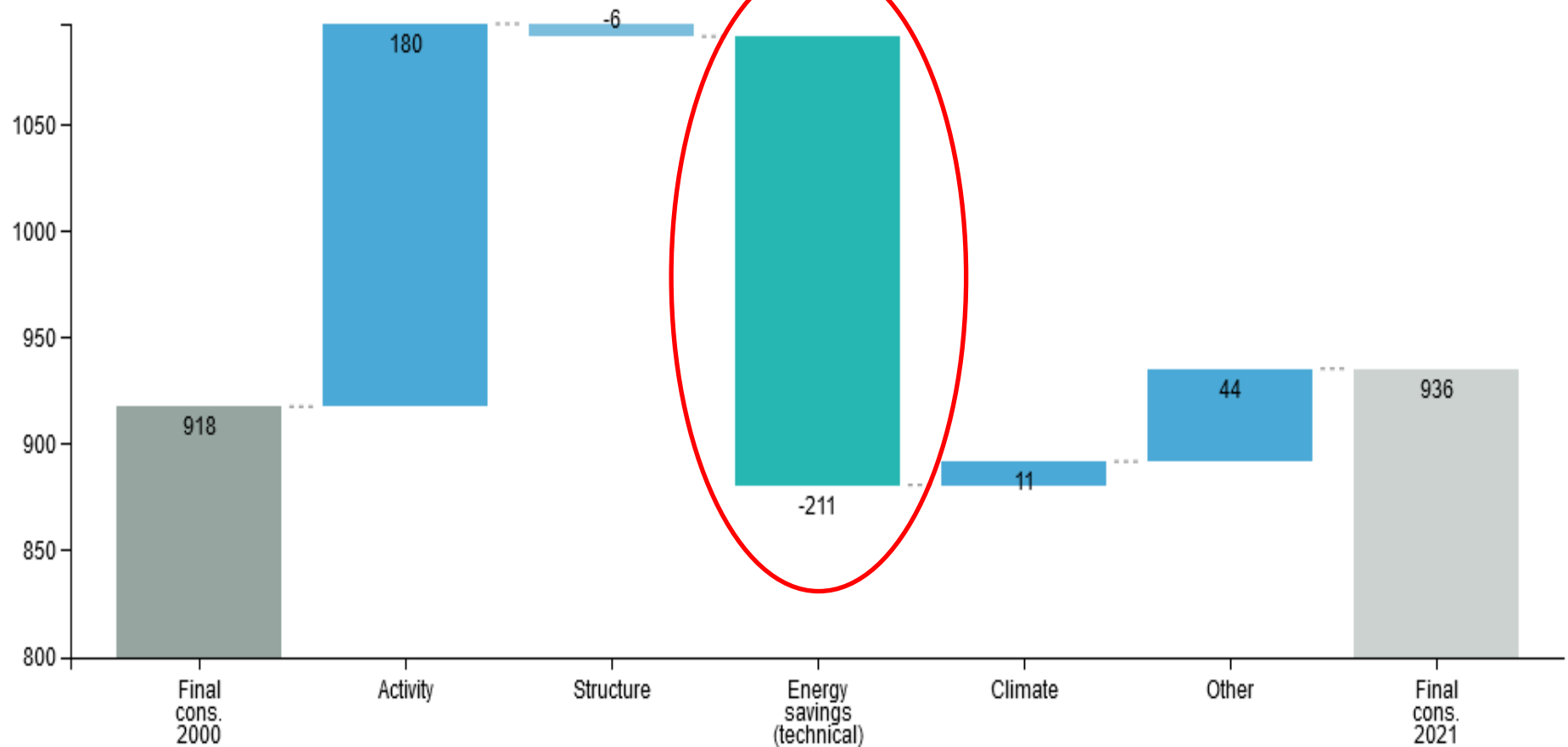
WP3: Status of the MURE database after the first update (excl. EnC)

All measures

- Transport; 647; 22%
- General cross-cutting; 529; 18%
- 2880 measures
- Households; 716; 25%
- Service…
- Industry…

Newly added or modified measures (since Oct. 2022)

- Transport; 248; 0,23%
- General cross-cutting; 257;…
- 1063 measures
- Household; 219; 0,21%
- Services…
- Industry;…

Energy poverty & sufficiency

- 🟢 Energy poverty
  - ⚪ aiming mainly or exclusively at energy poverty
  - ⚪ including an important component addressing energy poverty
- 🟢 Sufficiency
  - ⚪ Avoiding/Ceasing of energy services
  - ⚪ Substitution of energy services
  - ⚪ Adjustment of energy services

MURE : Improvement of the data base and related end-uses facilities

More focus on **sufficiency policies** in MURE database

➢ Inclusion of more sufficiency policies in the MURE database
→currently 42 measures are linked to sufficiency

➢ Better identification and classification of sufficiency policies → session at Zagreb meeting

➢ Effort on evaluations and quantification of impacts
→ detailed explanations in MURE guidelines and webinars for national teams

Improvement of MURE features:

➢ Further effort on reliable evaluations and quantification of impacts
→ detailed explanations in MURE guidelines and webinars for national teams

➢ Strengthening the link to energy poverty → currently 59 measures are linked to energy poverty

➢ Strengthening the link to article 8 EED (former Article 7)
→ detailed explanations in guidelines, main focus of individual quality control by IEECP

➢ New link to measures using EU funding implemented

Light update of MURE policy tools

➢ Impact Evaluation Facility → Integrated in Impact Assessment Tool (see WP4)

➢ Policy Mapper Facility → automatically updated with update of ODYSSEE and MURE databases

➢ Successful Policies Facility → update planned in the next reporting period

Improving the weighting of the criteria to define successful measures

❑ 12 criteria have been identified to define the success level of a measure
❑ Per each criteria, a score between 1 and 5 has been applied to quantify the success level of a measure
❑ This ranking scheme has been applied to +/- 3 measures per sector for each country

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 barrieres 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

Updating of the energy efficiency facilities

- Make use of the MICATool, which is the last weeks of finalisation.

- For recall: MICAT brought together MB:EE and COMBI

- Will work on an interface were the MURE database provides the bottom-up savings and ODYSSEE the top-down savings.

- The MICATool then provides the MB based on those savings. Need to prepare output webpages linked to MICAT and ODYSSEE-MURE

- Advantage: make use of all the methodological improvements, and of the front and back-end developed for MICAT

- Will hand in deliverable with some delay. Most likely towards the end of the year/beginning 2024.
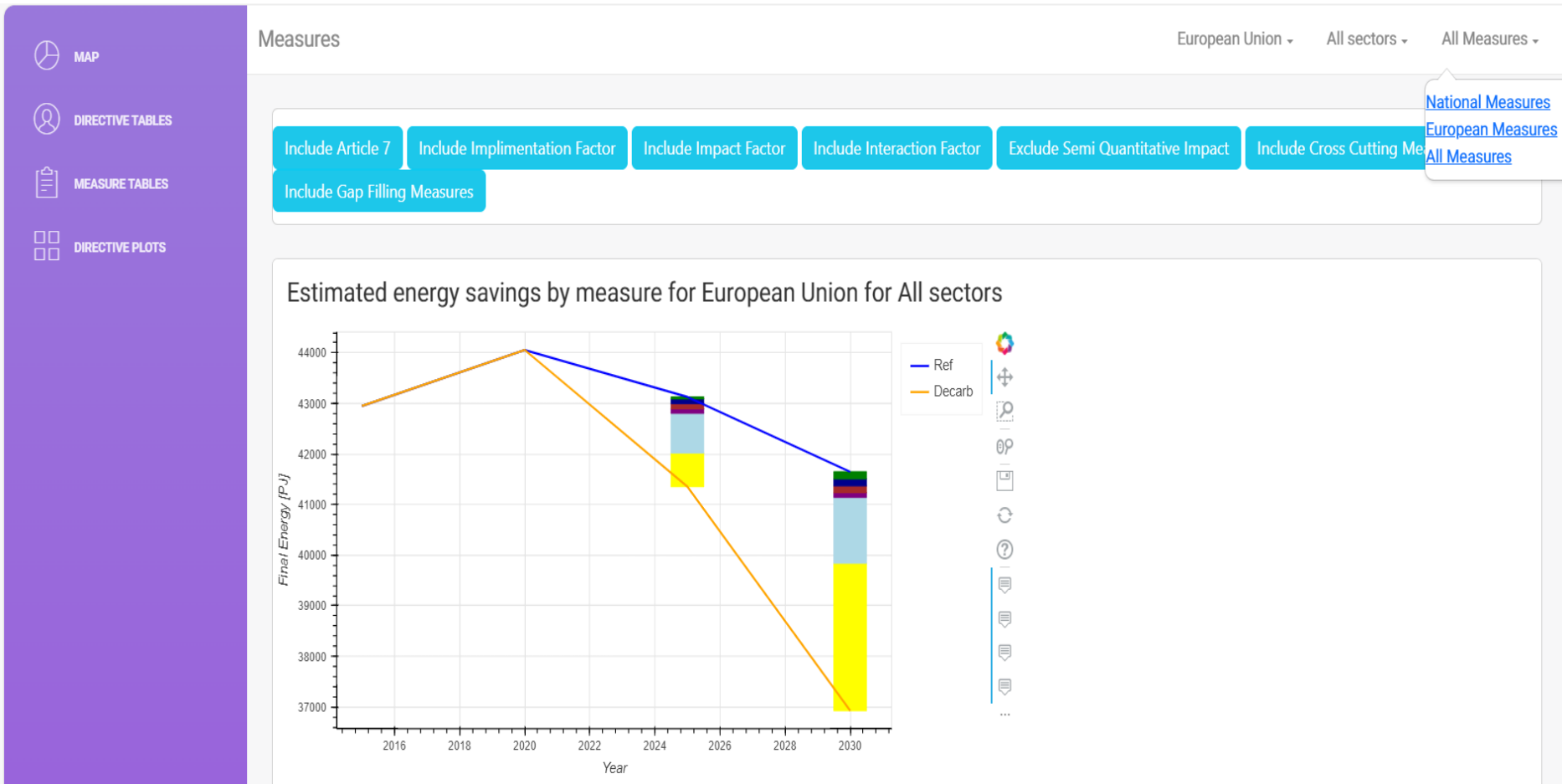
An attemp to link policies ans indicators :
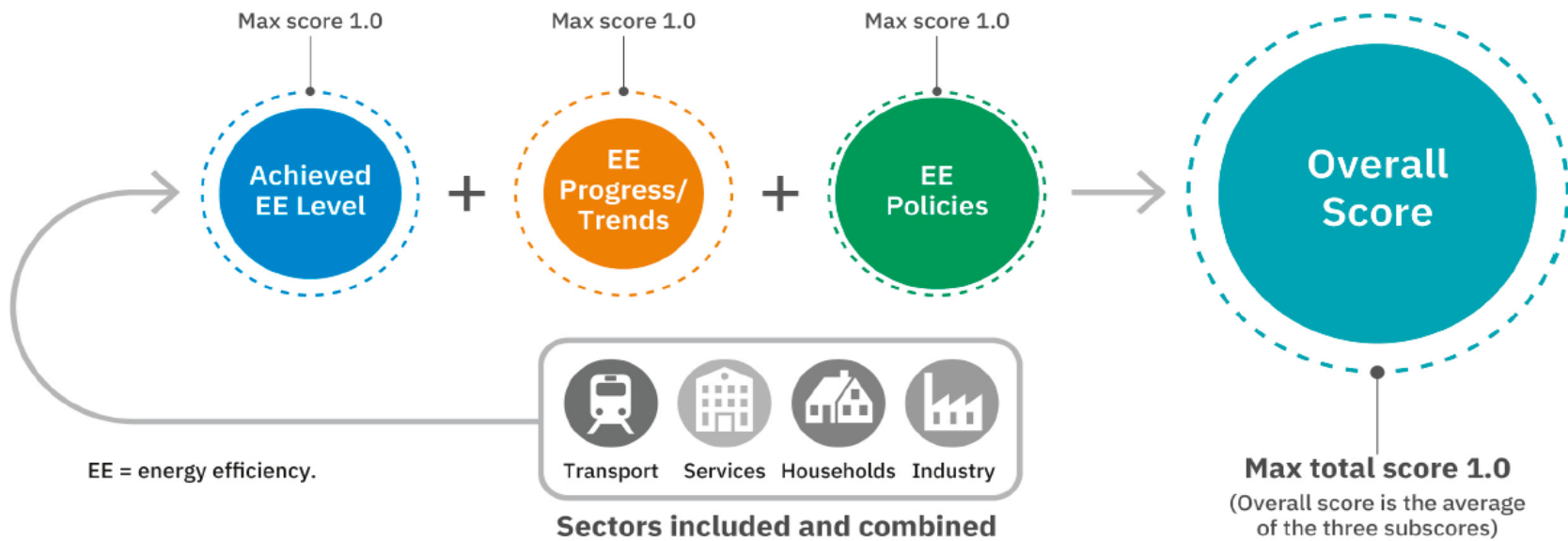## More or less workable depending on the end-uses
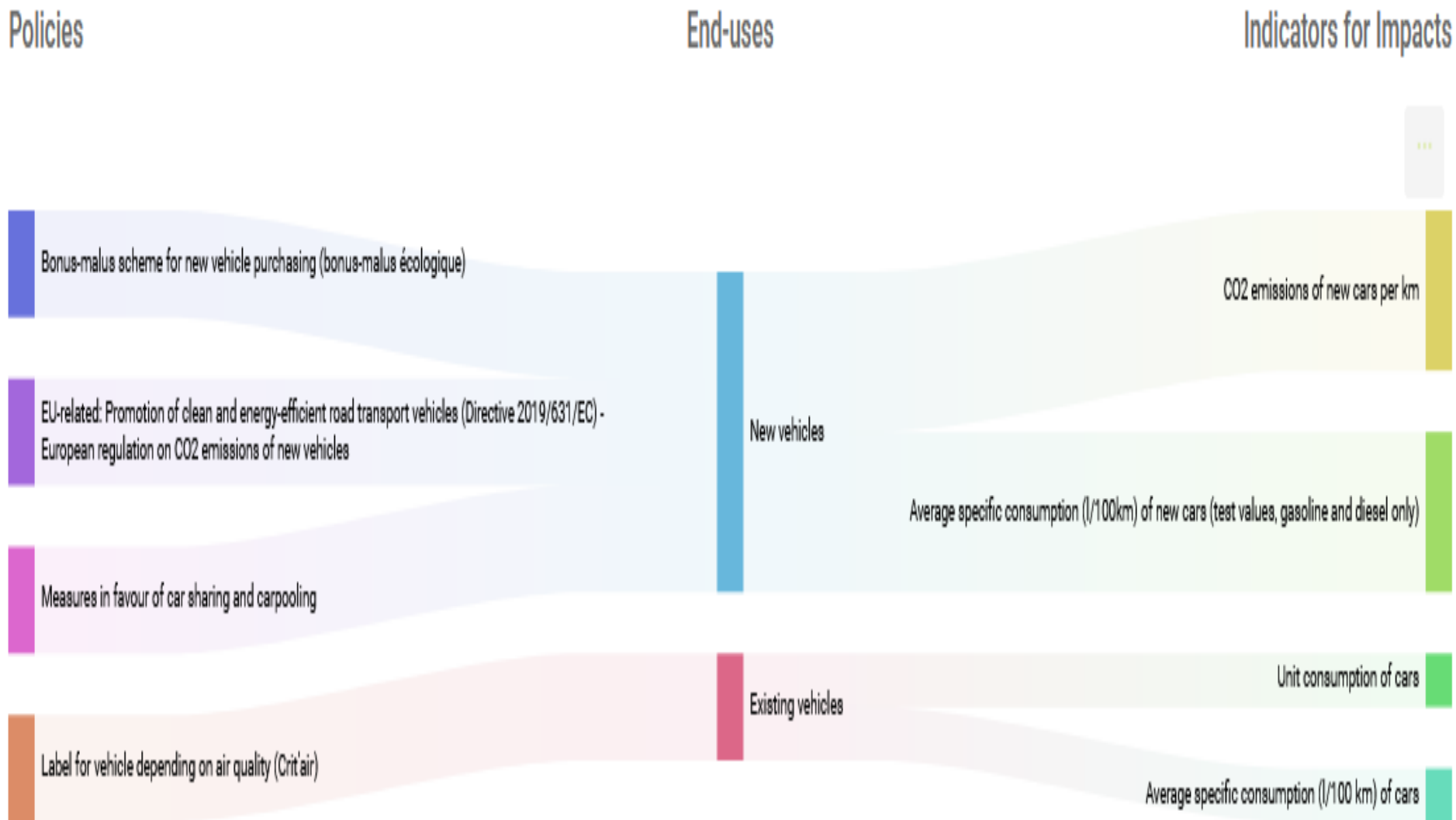
Development and implementation of an web tool "EE Policy Assessment Tool"

:

- First version of the web-based tool for testing
- Work on the transfer of measures from the MURE and Odyssee Databases to the web-based assessment tool in work

The 2023 ODYSSEE-MURE European scoreboard
The winner is?

OVERALL: OVERALL ENERGY EFFICIENCY SCORE

The overall energy efficiency score is obtained as an average of the three scores obtained for "energy efficiency level", "energy efficiency progress" and "energy effici
third weighting).

Country	
Luxembourg	
Germany	
France	
Latvia	
Denmark	
Greece	
Spain	

Germany gets the best score 2023 on „Policy"

Policy – Industrial Sector ranking top 5

Rank Country	Score
1 Germany	1.0
2 Finland	0.87
3 Bulgaria	0.47
4 Luxembourg	0.40
5 Poland	0.28

The methodology has been juged robust enough to be the core of an ISO standard

ISO 50049:2020

Calculation methods for energy efficiency and energy consumption variations at country, region and city levels

This document gives guidelines for methods for analysing changes in energy efficiency and energy consumption, and for measuring energy efficiency progress, for countries, regions and cities. It is composed of three different calculation methods:

— evaluation of structure effects in the variation of energy intensity;

— calculation of energy efficiency indices;

— decomposition analysis of energy consumption variation.

This document is applicable to providing an aggregated statistical evaluation for a country, region or city. It does not apply to calculating changes in the energy consumption or in energy efficiency at the individual consumer's level (e.g. households, organizations, companies).

International dissemination

- ODYSSEE Methodology currently applied in:

  – In 8 SMECs (Medener and RCREEE through EC funding) energy efficiency week (Marocco), UFM (Barcelone)

  – Training in Jordan and Marocco, next energy efficiency week in April (Tunisia)

Conclusions
ENSMOV-ODYSSEE-MURE : a win win friendship

- ENSMOV outputs can be an input of the MURE data base

- Consequently, MURE may adapt its menu in facilities (ex article 8 or 4)

- ENSMOV output can help ODYSSEE-MURE analysis (ex Scoreboard)

- ENSMOV can provide remarks on the MURE database