ODYSSEE-MURE

ODYSSEE-MURE: Data and Tools for the Monitoring of Energy Efficiency Progress

ODYSSEE-MURE – Second physical meeting, Session 2

Dublin, Ireland, 7 October 2026

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Co-funded by the European Union under project ID 101215674. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

The ODYSSEE-MURE project – Quick overview

- Ongoing since more than 30 years
- Long established network of partners from all 27 EU Member States and Switzerland and new network from 9 Energy Community Parties (EnC)
- 2 comprehensive databases on Energy Efficiency Indicators (ODYSSEE) and Energy Efficiency Policies (MURE), accompanied by several analytical Tools.
- All data and information available on the website: **https://www.odyssee-mure.eu/**



Around **200 indicators**
for the monitoring and evaluation of annual energy efficiency trends and energy-related CO_2 emissions:

- ✓ *Energy and CO_2 intensities*
- ✓ *Energy Efficiency indices (ODEX)*
- ✓ *Energy Savings*
- ✓ *Adjusted Indicators*
- ✓ *Diffusion & Benchmark Indicators*
- ✓ *Early estimates*
- ✓ *Energy poverty & sufficiency indicators*



3270 Energy Efficiency Policies

- ✓ **400** new measures (starting 2024-2026)
- ✓ **38%** with quantitative impact evaluation
- ✓ **200** measures addressing energy poverty
- ✓ **290** measures addressing energy sufficiency

Role for target achieving: two databases and several tools for measuring and understanding energy efficiency progress

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From the Assessement Report 2024 of the European Scientific Advisory Board on Climate Change (2024):

"The EU's target for final energy demand reduction is fit for net zero, but achieving it calls for energy efficiency – including its multiple benefits – to be better measured and understood, and for the energy efficiency first principle to be systematically put into practice."

"Recommendation E2: To achieve the 2030 energy efficiency targets under the EED, EU policies should foster public awareness of the multiple benefits of energy efficiency, such as energy security and health, and increase common understanding and measurement of energy efficiency under the EED. To this end, policies should be informed by insights from the energy efficiency obligation schemes and the coordinated measures to reduce demand for fossil gas."



The Combined Tools

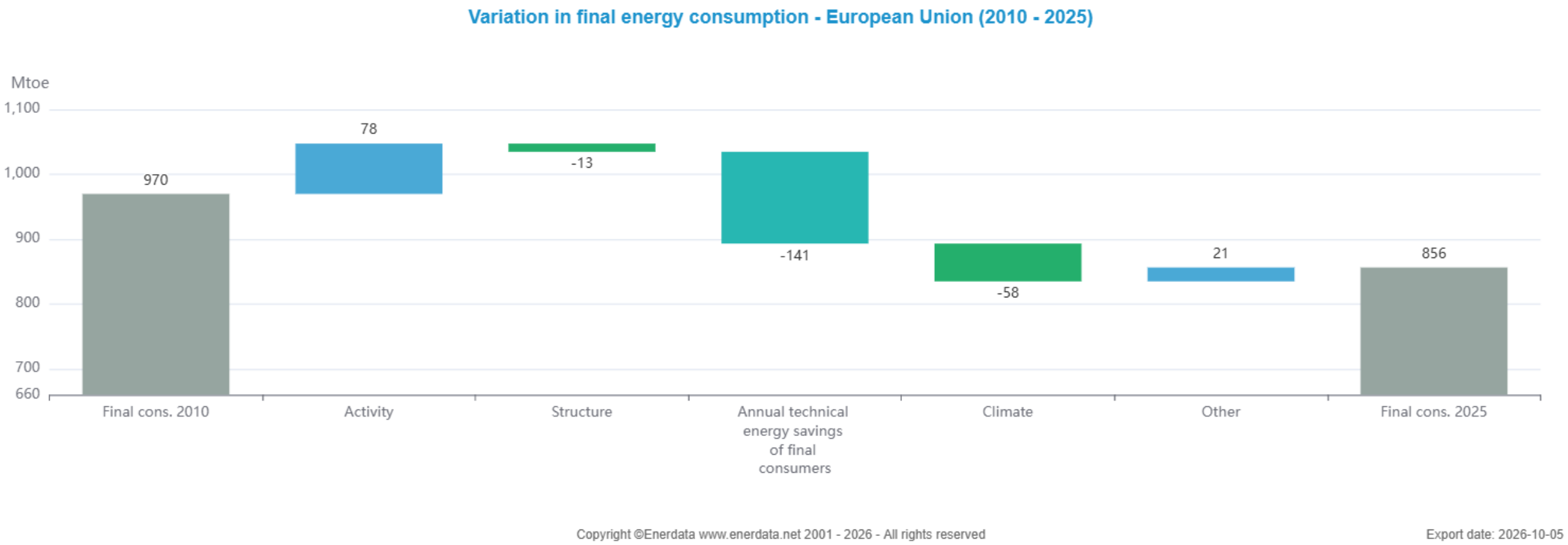




Sources: https://climate-advisory-board.europa.eu/reports-and-publications/towards-eu-climate-neutrality-progress-policy-gaps-and-opportunities
https://odyssee-mure.eu

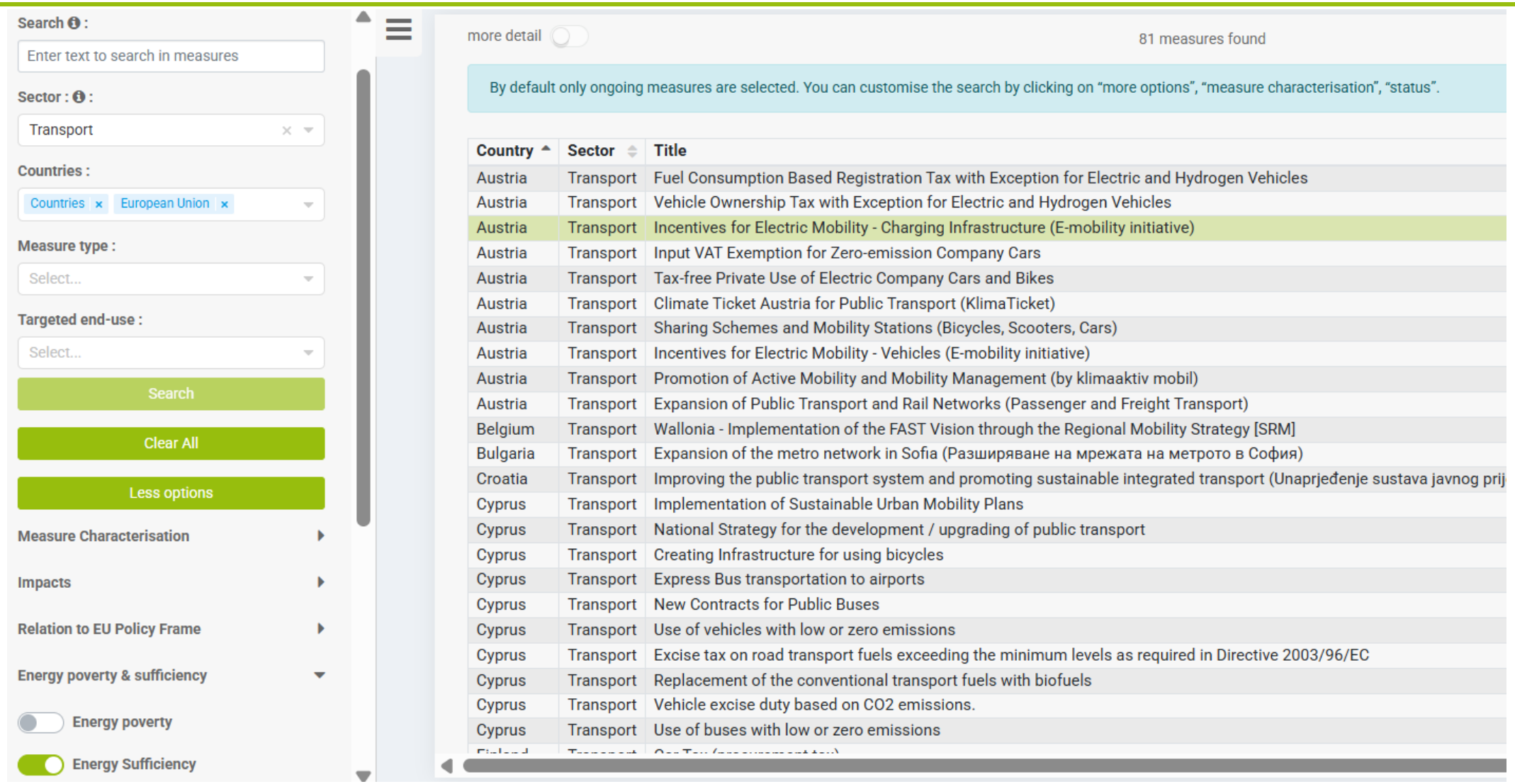
The ODYSSEE Decomposition Tool explains variations in energy consumption (total or by sector)

Variation in final energy consumption – European Union 2010 - 2025



Source: https://www.indicators.odyssee-mure.eu/decomposition.html

The MURE database provides policy measures influencing (technical) **energy efficiency**, but also activities and behaviour (**energy sufficiency**)



Country	Sector	Title
Austria	Transport	Fuel Consumption Based Registration Tax with Exception for Electric and Hydrogen Vehicles
Austria	Transport	Vehicle Ownership Tax with Exception for Electric and Hydrogen Vehicles
Austria	Transport	Incentives for Electric Mobility - Charging Infrastructure (E-mobility initiative)
Austria	Transport	Input VAT Exemption for Zero-emission Company Cars
Austria	Transport	Tax-free Private Use of Electric Company Cars and Bikes
Austria	Transport	Climate Ticket Austria for Public Transport (KlimaTicket)
Austria	Transport	Sharing Schemes and Mobility Stations (Bicycles, Scooters, Cars)
Austria	Transport	Incentives for Electric Mobility - Vehicles (E-mobility initiative)
Austria	Transport	Promotion of Active Mobility and Mobility Management (by klimaaktiv mobil)
Austria	Transport	Expansion of Public Transport and Rail Networks (Passenger and Freight Transport)
Belgium	Transport	Wallonia - Implementation of the FAST Vision through the Regional Mobility Strategy [SRM]
Bulgaria	Transport	Expansion of the metro network in Sofia (Разширяване на мрежата на метрото в София)
Croatia	Transport	Improving the public transport system and promoting sustainable integrated transport (Unaprjeđenje sustava javnog prij
Cyprus	Transport	Implementation of Sustainable Urban Mobility Plans
Cyprus	Transport	National Strategy for the development / upgrading of public transport
Cyprus	Transport	Creating Infrastructure for using bicycles
Cyprus	Transport	Express Bus transportation to airports
Cyprus	Transport	New Contracts for Public Buses
Cyprus	Transport	Use of vehicles with low or zero emissions
Cyprus	Transport	Excise tax on road transport fuels exceeding the minimum levels as required in Directive 2003/96/EC
Cyprus	Transport	Replacement of the conventional transport fuels with biofuels
Cyprus	Transport	Vehicle excise duty based on CO2 emissions.
Cyprus	Transport	Use of buses with low or zero emissions

Source: https://www.measures.odyssee-mure.eu/energy-efficiency-policies-database.html#/search

The Energy Efficiency Scoreboard as a monitoring tool

Key message from the policy brief on the Energy Efficiency Scoreboard:

"The European Energy Efficiency Scoreboard provides a monitoring tool following energy efficiency levels, trends and policies for the four main energy-consuming sectors households, industry, transport and services. It combines evidence-based research (based on a large number of statistical indicators) with output-based quantified policy impacts. The scores can be used to follow in detail the progress of EU Member States to the 2030 energy efficiency targets. Transparency in methodology and data is key, and stakeholder involvement in the validation important."

2025 EU ENERGY EFFICIENCY SCOREBOARD

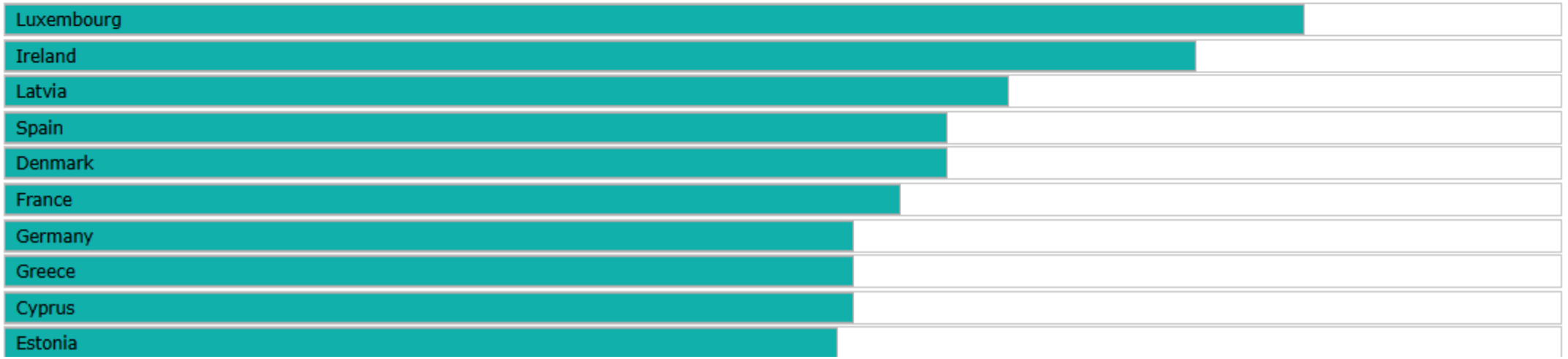
The objective of the ODYSSEE-MURE scoreboard on energy efficiency indicators and policies is to score EU countries on different

- the energy efficiency level,
- the energy efficiency progress,
- the energy efficiency policies,
- a combination of all these criteria.

The scoreboard can be viewed by selecting a criterion which ranks the country according to their score ("Overview"). The score by country for each criterion can be displayed by selecting "View by country".
For each criterion each country is scored with a score between 0 and 1 on the basis of indicators and policies (see methodology).

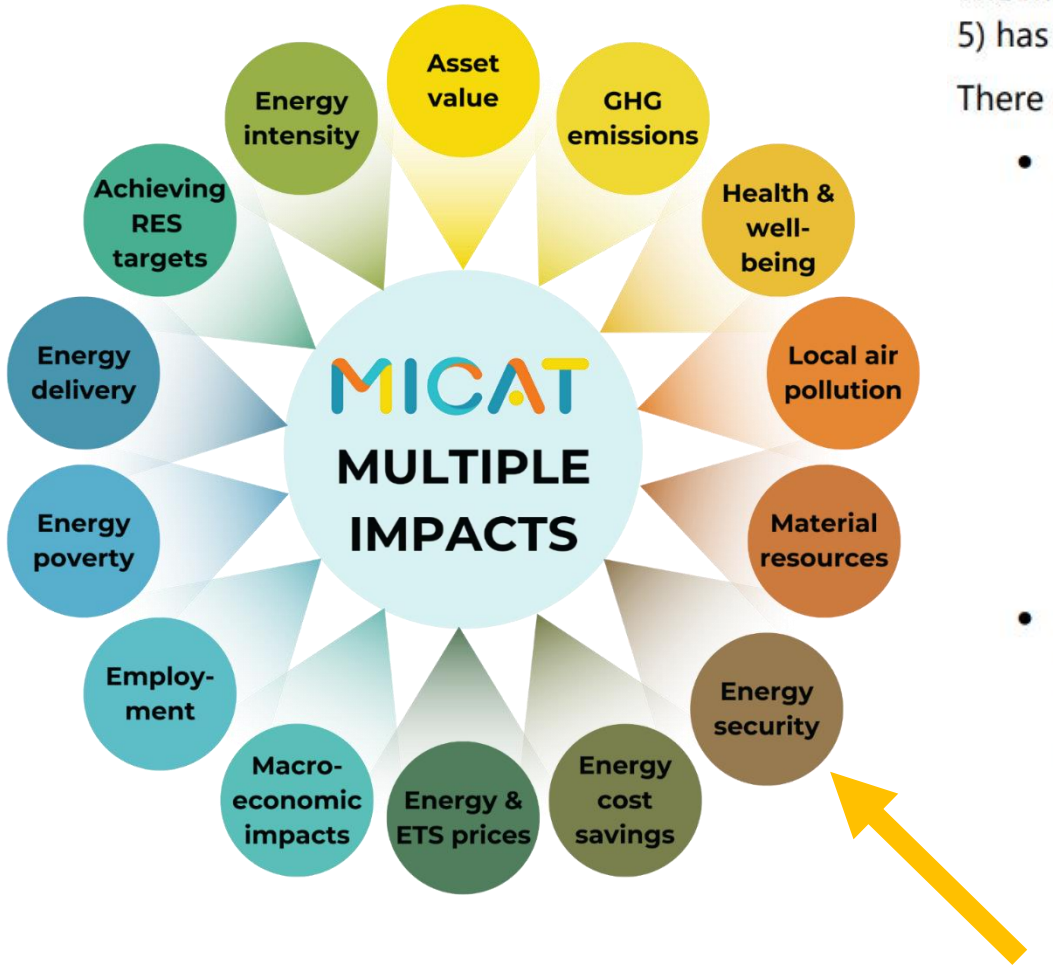
OVERALL: OVERALL ENERGY EFFICIENCY SCORE

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



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Multiple impacts of energy efficiency beyond the reduction of energy demand and energy costs – The Multiple Benefits Tool



The MICATool is available at the website https://app.micatool.eu/. Its entrance webpage (see Figure 5) has been modified to adapt specifically to the ODYSSEE-MURE project.

There are two configurations:

- The MICATool builds first on the **top-down savings** which are calculated in the ODYSSEE-MURE project (ODYSSEE part) based on statistical data. For recall: these savings include generally not only policy induced savings but also energy savings arising from autonomous progress or market-induced changes in energy demand.



- The MICATool builds second on the **bottom-up savings** which are calculated in the ODYSSEE-MURE project (MURE part) based on energy efficiency measure evaluations. For recall: these savings focus on policy induced savings (though there can be overlapping effects, e.g. free-rider effects in policy programmes).



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Thank you!

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