



ODYSSEE-MURE



# The ODYSSEE-MURE Project - Energy Efficiency Indicators in Greece

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CRES

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# About ODYSSEE-MURE Project

- ❑ The **objective** of the project is to provide a comprehensive monitoring of energy consumption and energy efficiency trends as well as an evaluation of energy efficiency policy measures by sector for EU countries, Switzerland and Energy Community countries.
- ❑ The project relies on **two complementary internet databases**, which are regularly updated by the network of national teams (once to twice a year):
  - ✓ **Odyssee**, managed by Enerdata, which contains detailed energy efficiency and CO2-indicators with data on energy consumption, their drivers (activity indicators) and their related CO2-emissions.
  - ✓ **Mure**, coordinated by Fraunhofer-ISI with the technical support of Enerdata, which contains a description, with their impact evaluation whenever available, of all energy efficiency measures implemented at EU or national level.
- ❑ The **originality** of the project is to cover all sectors and end-uses with an homogeneous and harmonised approach and to provide an overall picture of the trends and measures by sector.



# The ODYSSEE-MURE Project

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



## ABOUT ODYSSEE

Database on energy efficiency indicators and energy consumption by end-use and their underlying drivers in industry, transport and buildings.

[Learn more](#)



## ABOUT MURE

Database on energy efficiency policies and measures by country in industry, transport and buildings.

[Learn more](#)

KEY INDICATORS



MARKET  
DIFFUSION



DECOMPOSITION



COMPARISON



ENERGY SAVING



SUCCESSFUL  
MEASURES



POLICY MAPPER



ENERGY  
EFFICIENCY  
SCOREBOARD



# The Recast Energy Efficiency Directive (EED)

- ❑ The **recast Energy Efficiency Directive (EU) 2023/1791** entered into force on October 10, 2023.
- ❑ Changes from the previous Directives 2018/2002 and 2012/27/EU include the following:

EU legally-binding target to reduce the EU's final energy consumption by 11.7% by 2030 (relative to the 2020 reference scenario)

Increase annual energy savings from 0.8% (at present) to 1.3% (2024-2025), then 1.5% (2026-2027) and 1.9% from 2028 onwards

Oblige MSs to prioritise vulnerable customers and social housing within the scope of their energy savings measures

Introduce an annual energy consumption reduction target of 1.9% for the public sector

Extend the annual 3% buildings renovation obligation to all the levels of public administration

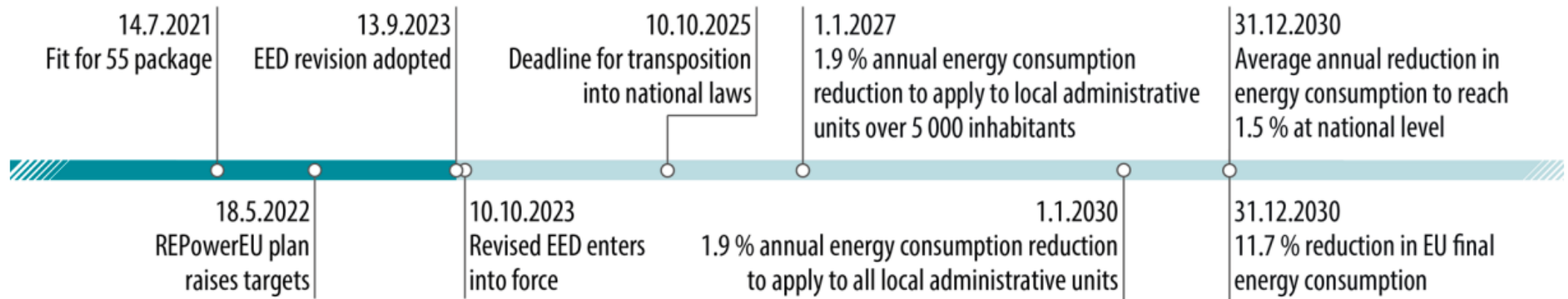
Introduce a different approach, based on energy consumption, for business to have an energy management system or to carry out energy audits

Bring in a new obligation to monitor the energy performance of data centres, with an EU-level database collecting and publishing data

Promote local heating & cooling plans in larger municipalities

Progressively increase the efficient energy consumption in heat or cold supply, also in district heating

# The Recast EED: Implementation Timeline



Source: European Commission

# The ODYSSEE Database

## Welcome to the Odyssee database

The EU database on energy efficiency data & indicators

For over three decades, the Odyssee database has been maintained by Enerdata in the framework of the Odyssee-Mure project, coordinated by ADEME. It is supported by LIFE-CET programme of the European Commission and is involved in the activities of the EnR Club. The data is provided by approximately 40 partners from across the EU countries as well as Energy Community Parties and Switzerland.

### → Key Features



#### Database

Build your own query

Access data



#### Odyssee data tools

More data tools are available on the Odyssee project website

Access data tools

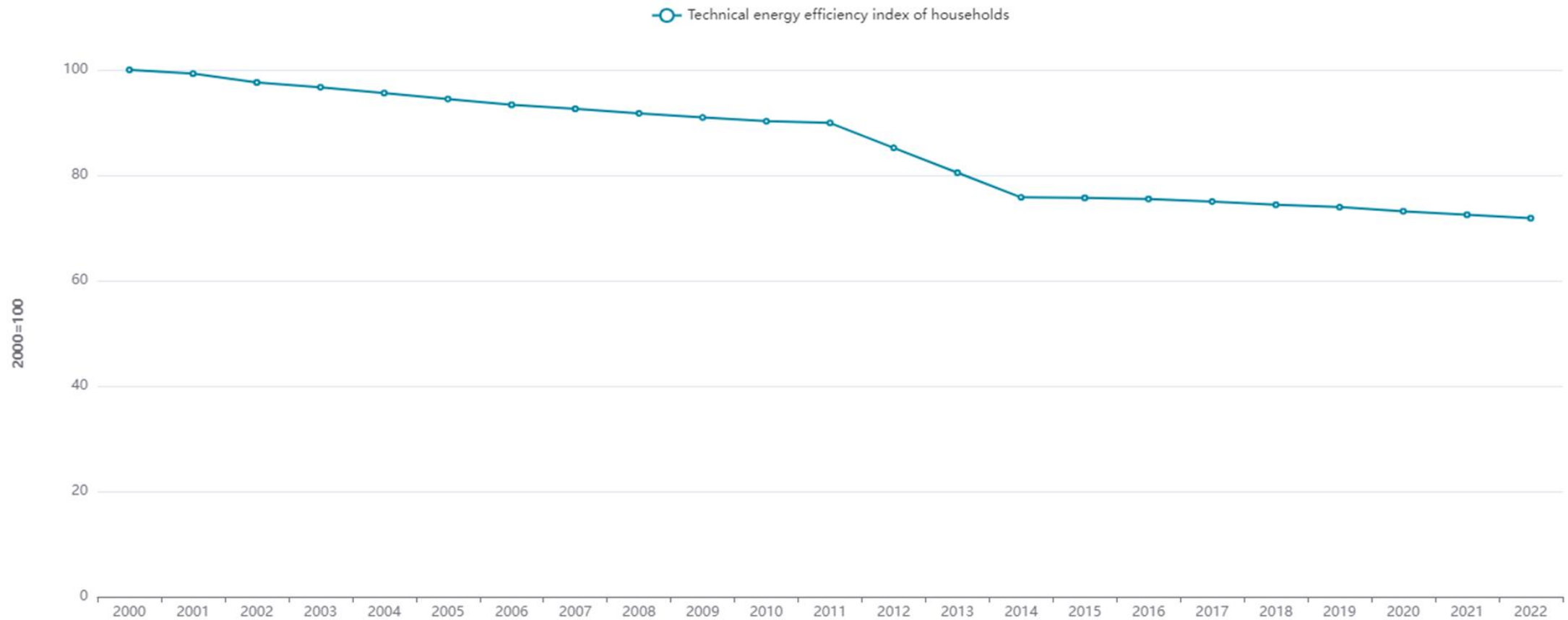


#### Odyssee publications

Access publications on energy efficiency trends and policies

Access publications

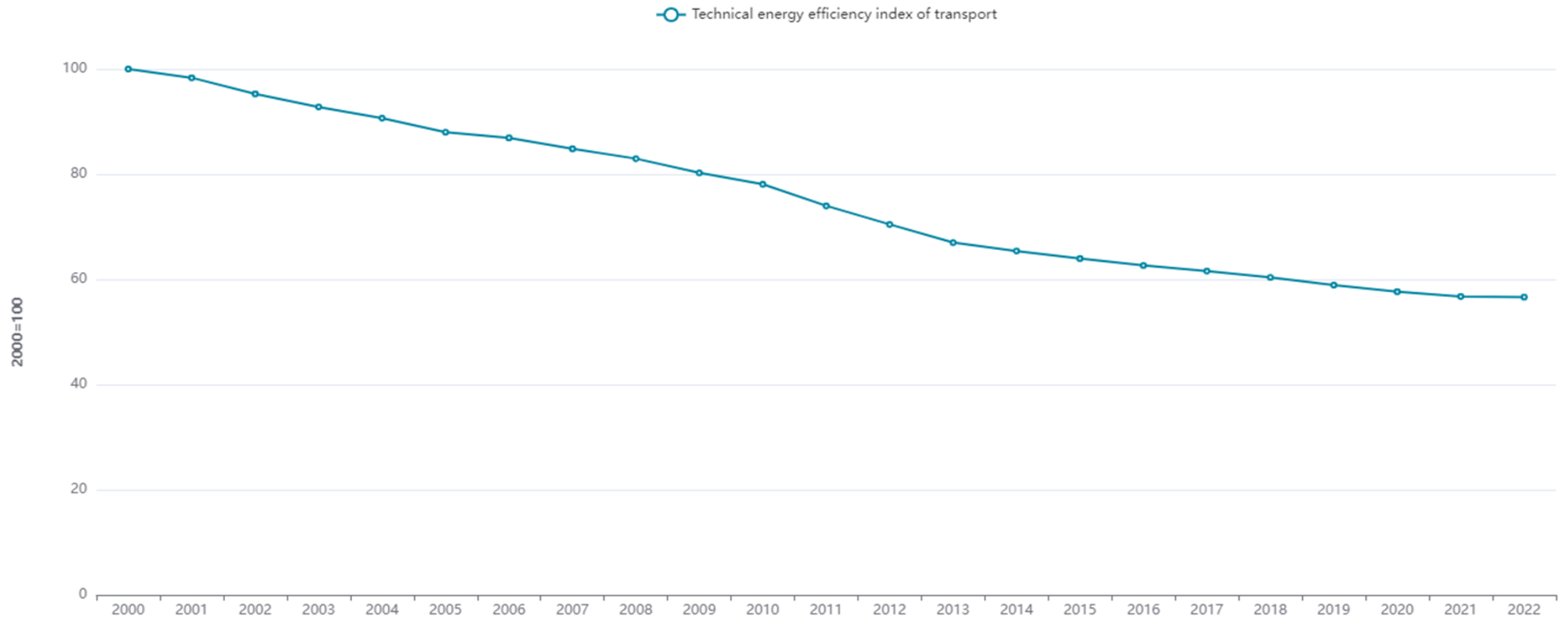
# Energy Efficiency Index in Greece's Residential Sector, 2000-2022



Source: ODYSSEE



# Energy Efficiency Index in Greece's Transport Sector, 2000-2022

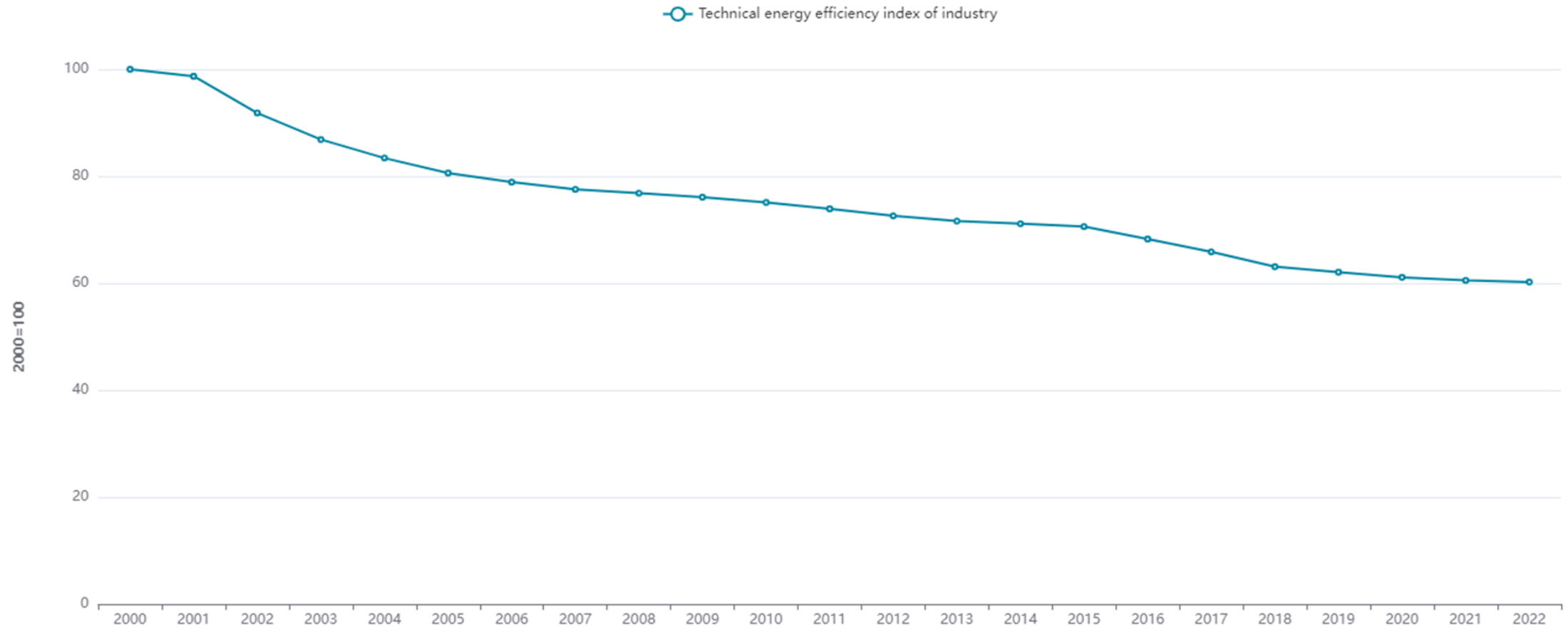


Source: ODYSSEE





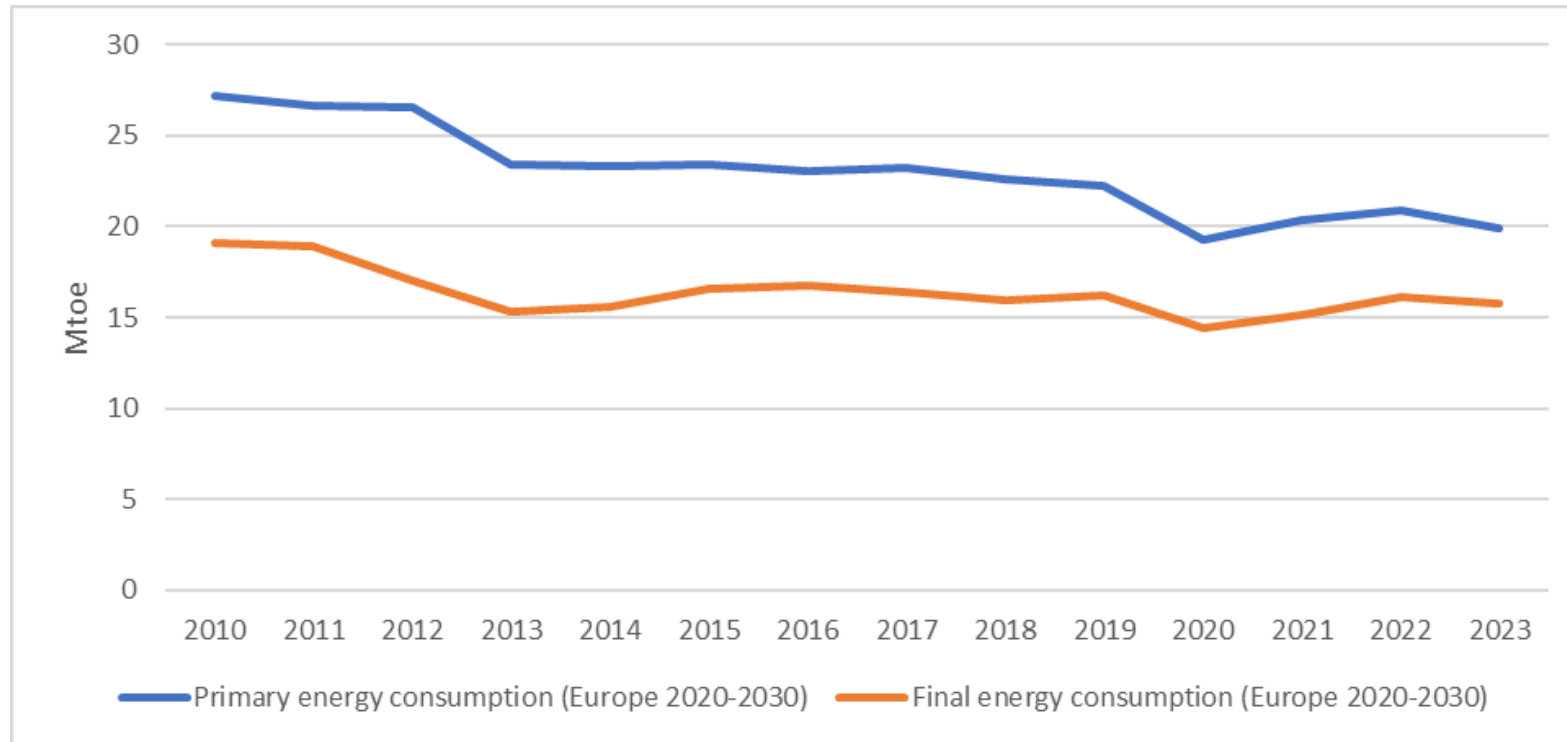
# Energy Efficiency Index in Greece's Industrial Sector, 2000-2022



Source: ODYSSEE



# Greece's 2030 Energy Efficiency Target and Current Status

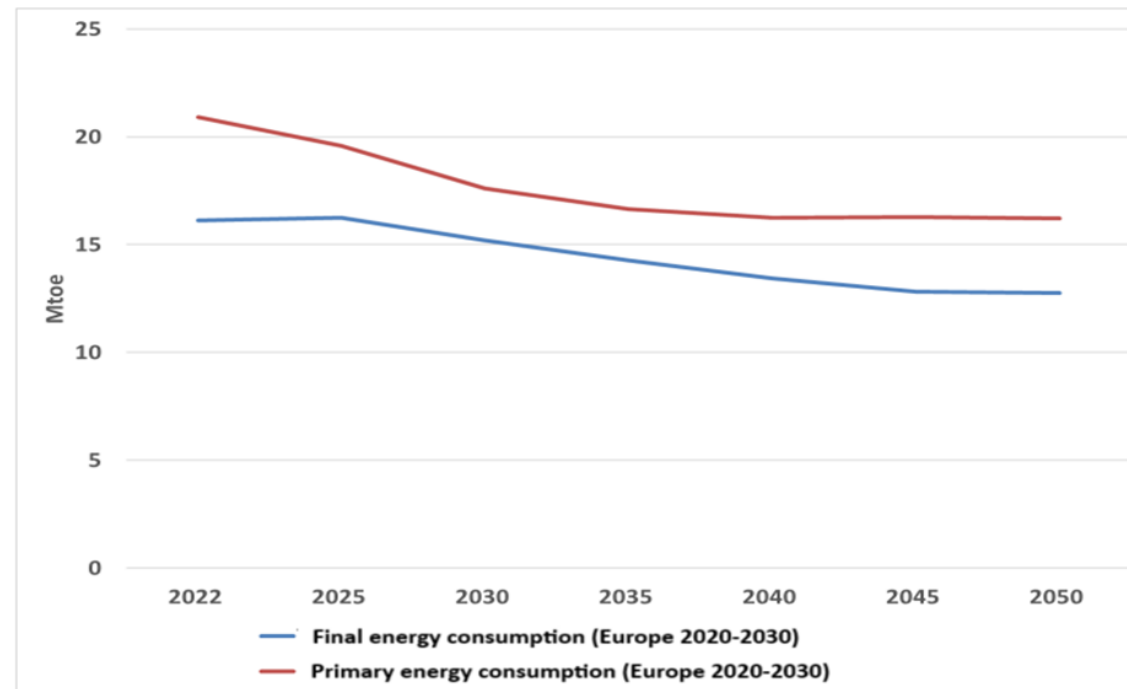


<i>Mtoe</i>	<b>2020 status</b>	<b>2022 status</b>	<b>2023 status</b>	<b>2030 targets</b>
Primary energy consumption	19,2	20,9	19,9	17,8
Final energy consumption	14,4	16,1	15,7	15,2



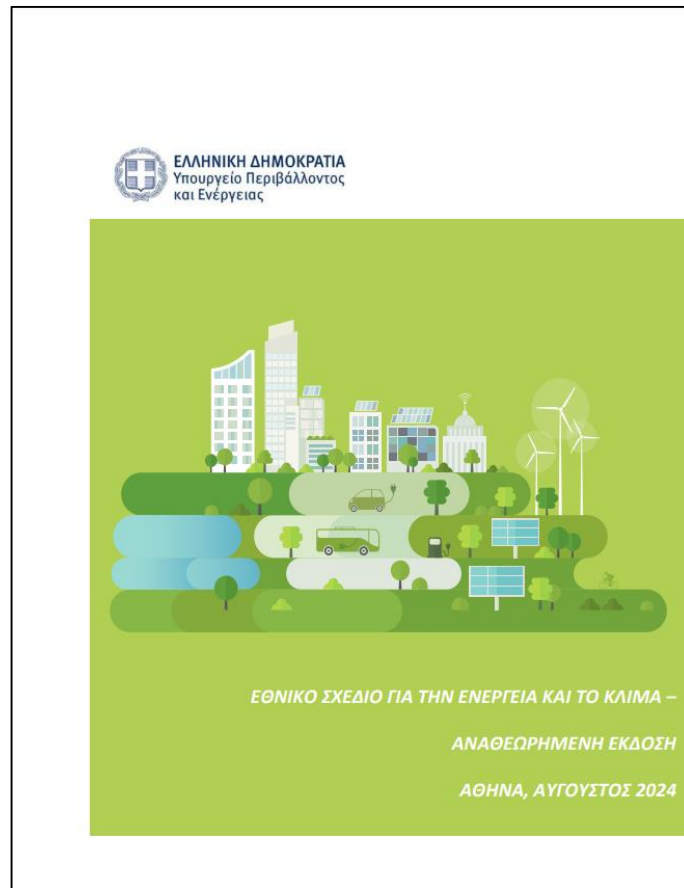
# Progress to Energy Efficiency Targets in Greece

Mtoe	Statistical data				Projections			
	2015	2020	2022	2023	2030	2035	2040	2050
Energy Efficiency: PEC	23,4	19,2	20,9	19,9	17,8	16,8	16,3	16,9
Energy Efficiency: FEC	16,6	14,4	16,1	15,7	15,2	14,1	13,4	12,2



Source: Greece's NECP

# Energy Efficiency in Greece – A General Overview of Actions by Sector



## Buildings

- “Phoebus” programme (municipal daycare centers)
- “Athena” programme (Kindergartens and primary schools)
- “Electra” programme (public buildings)
- “Save” programme (residential buildings)
- “Savings at Home” programme (residential buildings)
- “Recycle-Change Device” programme (residential buildings)
- “PVs on the Roof” programme (households and farmers)
- “Recycle-Change Water Heaters” programme (residential buildings)
- “Save – Renovate for Young People” programme (residential buildings)

## Transport

- “Charge Everywhere” programme
- “I Move Electric I, II and III” programme
- “Green Taxis” programme
- “e-Astypalea” programme

## Industry

- “Promotion of Energy Efficiency in Municipal Water Supply and Sewerage Enterprises (DEYAs)” programme
- “Energy storage systems in businesses” programme
- “Produc-e Green” programme
- “Save-Business” programme
- “Green Businesses” programme
- “Support to Improve Energy Efficiency in Industrial Processes” programme
- “Energy Efficiency Improvement in SMEs” programme

# The MURE Database

## The MURE database on energy efficiency policies and its tools

<https://www.measures.odyssee-mure.eu/>

### 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.



# Ongoing Cross Cutting Energy Efficiency Policies in Greece

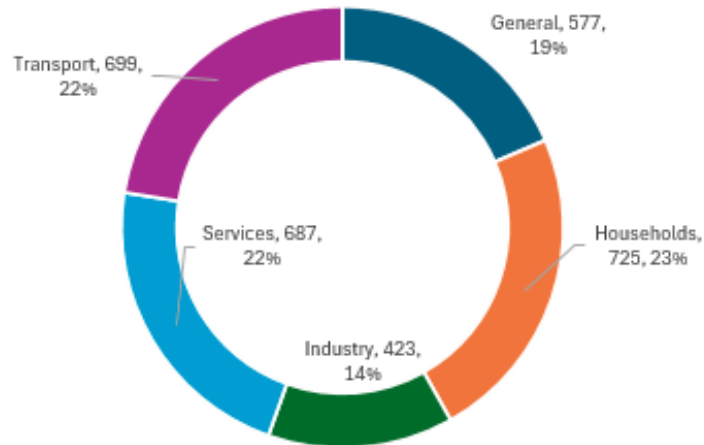
Country ^	Sector ⇅	Title	EU ① ⇅	Type	Starting Year ⇅
Greece	General cross-cutting	Implementation of tender procedures for achievement of energy savings	No	Market-based Instruments, Financial	2021
Greece	General cross-cutting	Holding fund under the name "Infrastructure Fund" - Projects for power production and distribution from RES	Yes	General programme	2018
Greece	General cross-cutting	Thermal power generation plants using biomass for the district heating network of Amyntaion	Yes	General programme	2020
Greece	General cross-cutting	Promotion of heating and cooling systems from RES and CHP systems for self-consumption	Yes	General programme	2018
Greece	General cross-cutting	Energy efficiency obligation scheme	Yes	General programme, Mandatory standards	2017
Greece	General cross-cutting	Urban bioclimatic restructuring	No	General programme	2021
Greece	General cross-cutting	Development of the regulatory framework for demand response	No	Others	2021
Greece	General cross-cutting	Strengthening the role of energy performance certificates by amending and upgrading them	No	Market-based Instruments	2016
Greece	General cross-cutting	Scheme for the certification of installers of building elements that affect the energy behaviour of buildings	No	Market-based Instruments, Financial	2021
Greece	General cross-cutting	Design of framework for setting up innovative technology procurement groups	No	Market-based Instruments	2021
Greece	General cross-cutting	Implementation of information actions on energy efficiency	No	General programme, Financial	2016
Greece	General cross-cutting	Promotion of energy audits in SMEs and households	No	Others, Financial	2022
Greece	General cross-cutting	National Energy Poverty Action Plan	No	General programme	2021
Greece	General cross-cutting	National Long Term Renovation Strategy	No	General programme	2021
Greece	General cross-cutting	Programme for financial support of technological investments in energy efficiency	No	General programme, Market-based Instruments	2008
Greece	General cross-cutting	Completion/expansion of infrastructure for the increase of electricity capacity through CHP-District heating in the post-lignite areas	No	General programme, Financial	2018
Greece	General cross-cutting	Financing programmes for promoting HECHP, district heating/cooling in the context of the new programming period	No	General programme	2016
Greece	General cross-cutting	Private investment aid schemes for regional and economic development	No	General programme	2021
Greece	General cross-cutting	Completion of a programme for the installation of individual smart meters - Residential and tertiary sector	No	General programme, Financial	2016
Greece	General cross-cutting	Use of tax and town planning incentives for implementing energy savings interventions in residential and tertiary buildings (other than public buildings)	No	General programme, Financial	2016

Source: MURE

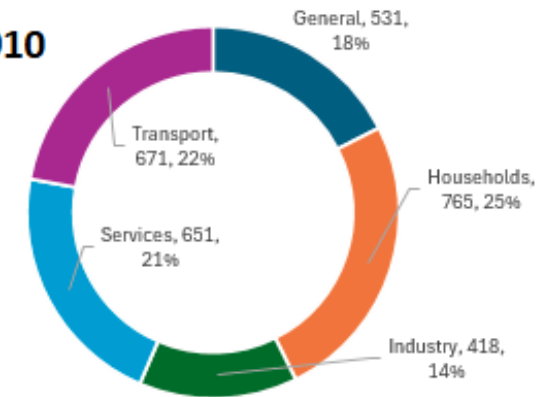


# Current Status of MURE: All Measures

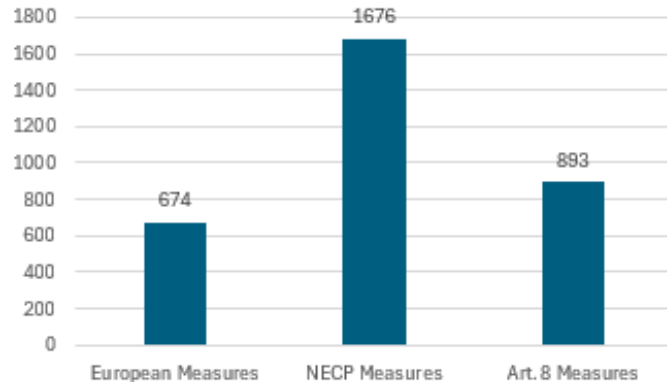
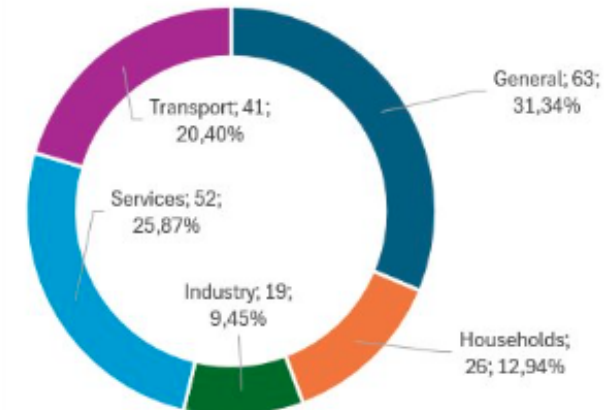
**Total number of measures: 3111**



**of which in EU-27  
(also incl. CH, UK, NO): 2910**



**of which in EnC: 201**

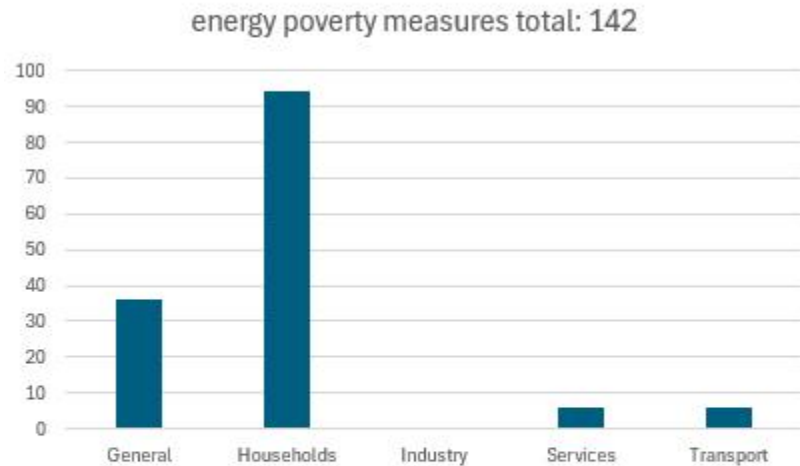


Source: MURE



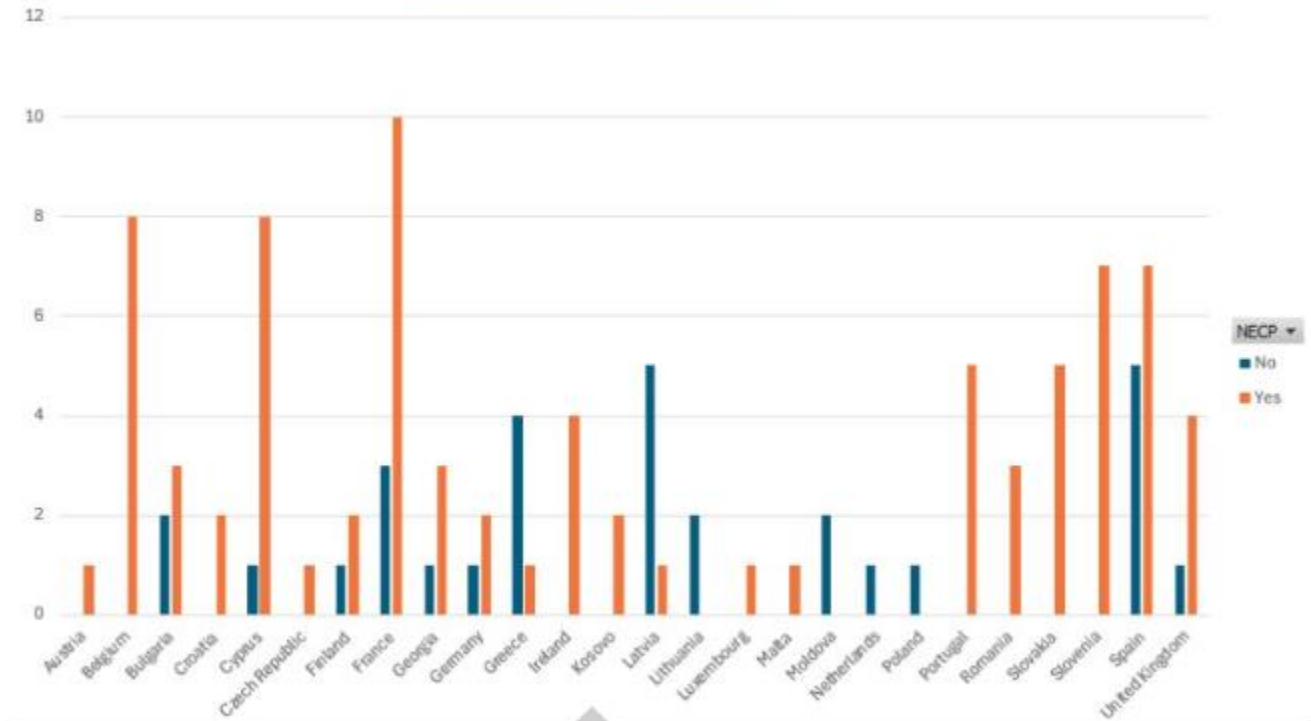
# Current Status of MURE: Energy Poverty Measures

## Measures by sector



- Energy poverty
- aiming mainly or exclusively at energy poverty
- including an important component addressing energy poverty

## Measures by country



26 countries report energy poverty measures in MURE

Source: MURE

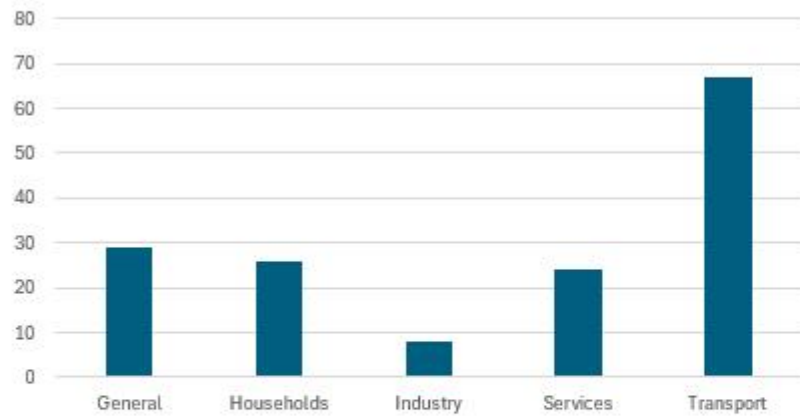




# Current Status of MURE: Energy Sufficiency Measures

## Measures by sector

energy sufficiency measures total: 154



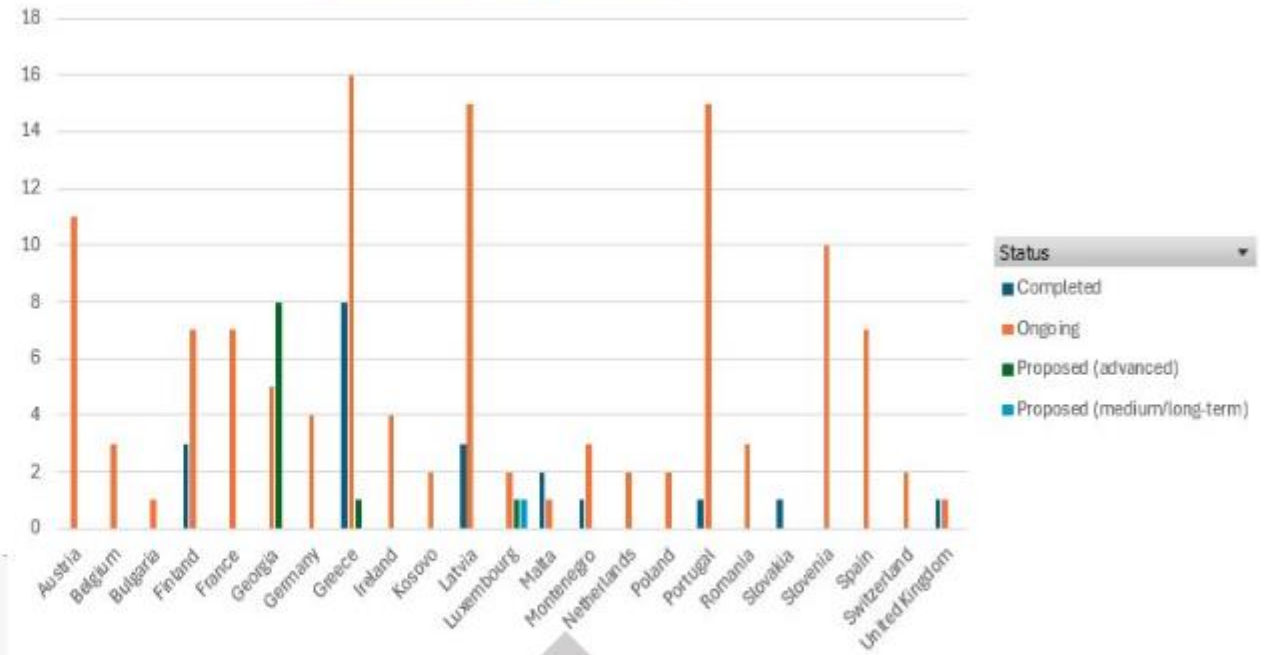
### Categorisation by type of action :

- Avoiding/Ceasing of energy services
- Substitution of energy services
- Adjustment of energy services

### Categorisation by type of impact :

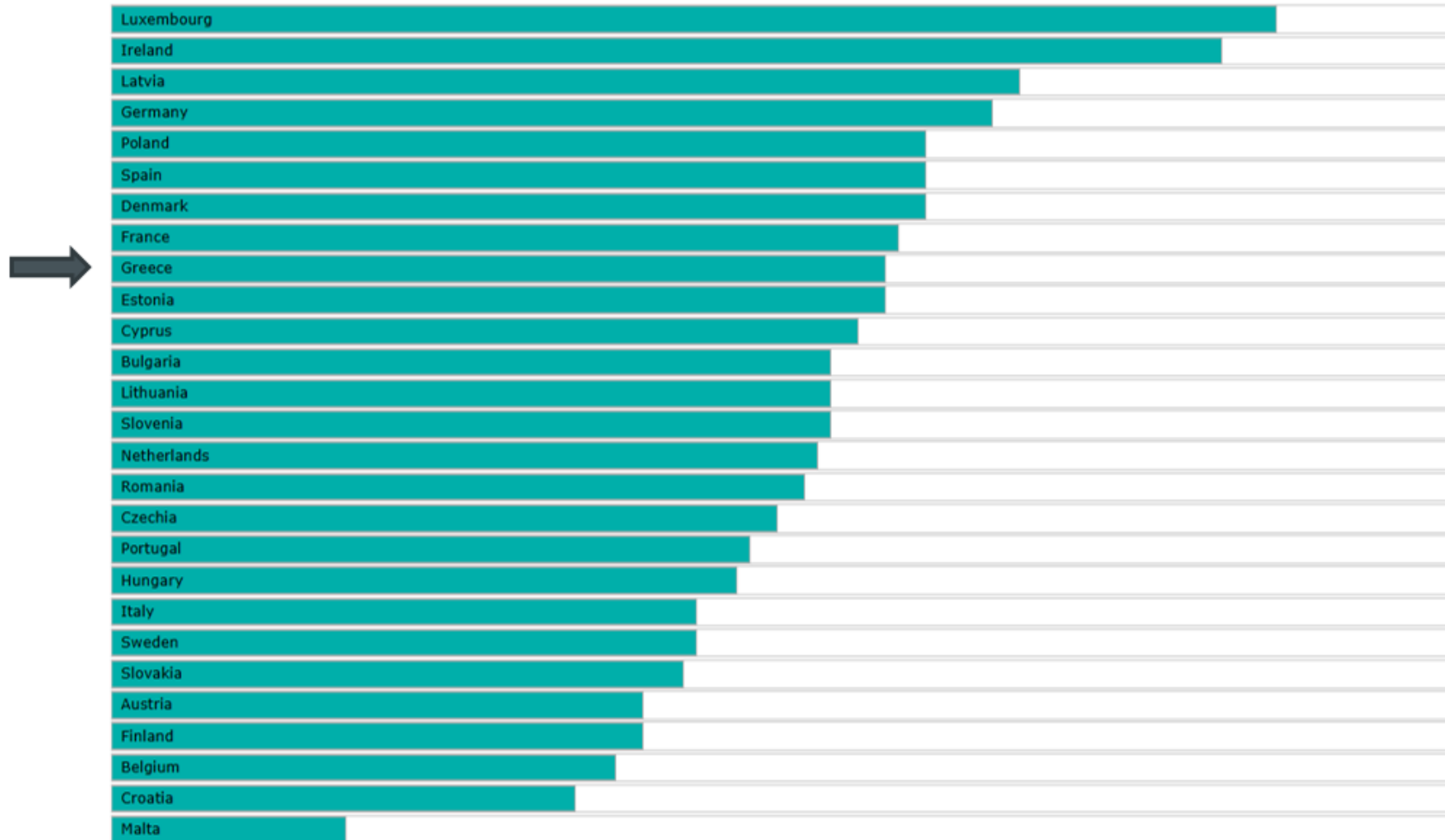
- Direct Sufficiency Measure
- Indirect Sufficiency Measure - Monetary
- Indirect Sufficiency Measures - Non-monetary

## Measures by country



23 countries report energy sufficiency measures in MURE

# Overall Energy Efficiency Score in EU-27, 2024



Source: ODYSSEE

# Overall Energy Efficiency Score in Greece, 2024

## 2024 EU ENERGY EFFICIENCY SCOREBOARD

View:

By country

Sector:

Overall

Country:

Greece

### OVERALL

Ranking	Level	Trend	Policies	Combined
Greece	3 / 27	10 / 27	15 / 27	9 / 27
Highest score (benchmark)	Lithuania	Luxembourg	Luxembourg	Luxembourg

METHODOLOGY

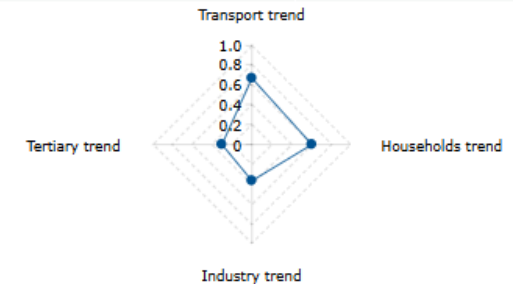
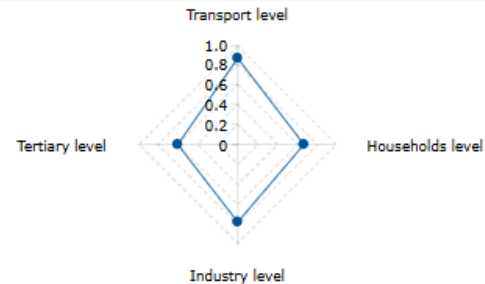
COUNTRY NOTES

EXPORT

EXPORT 2023

SUMMARY

MORE INFORMATION



Source: ODYSSEE

***Thank you for your  
attention!!!***

***email: [dim.meza@cres.gr](mailto:dim.meza@cres.gr)***

