

Eurostat Energy Statistics

The Energy Community Secretariat's Webinar Series on
“Integrated national energy and climate progress reports”

4 December 2025

Tamás Edelényi & Fernando Díaz Alonso
European Commission - Eurostat



Clean Industrial Deal



Energy Union, REPowerEU, Clean Industrial Deal

- The first climate neutral continent by 2050
- Affordable, secure and sustainable energy for Europe
 - *Save energy, produce clean energy and diversify supply*
 - *High-quality data essential to monitor energy policies*
 - [National Energy and Climate Plans](#) and Progress Reports



eurostat

Eurostat is the statistical office of the European Union (EU).

*Our mission is to provide **high-quality statistics** on Europe.*

*Eurostat produces European statistics **in partnership** with National Statistical Institutes and other national authorities in the EU Member States.*

*This partnership is known as the **European Statistical System (ESS)**.*

Legal basis for energy statistics

[Regulation \(EC\) 1099/2008](#)
on Energy Statistics

[Regulation \(EU\) 2016/1952](#)
on Energy prices



Other European Legal Texts with Influence on Energy Data

- Regulation (EU) 2018/1999 of the European Parliament and of the Council on the **Governance of the Energy Union and Climate Action**
- Directive (EU) 2023/2413 on the promotion of the **use of energy from renewable sources** (RED III)
- Directive (EU) 2023/1791 on **energy efficiency**
- Council Regulation (EU) 2023/706 amending Regulation (EU) 2022/1369 on **gas demand-reduction**, now a recommendation
- Council Directive 2009/119/EC imposing an obligation on member states to maintain **minimum stocks of crude oil and/or petroleum products**



Additional Legal Basis for Renewable Energy

Directive 2009/28/EC on the promotion of the **use of energy from renewable sources (RED I)**.

It is now repealed by:



Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (**RED II**), amended by Directive (EU) 2023/2413 (amended RED or **RED III**).

Eurostat Annual Energy Statistics Reporting

EU Members States and EnC Contracting Parties


- **Submit data by 31 October** (2025) following the reference period (2024)
 - *Annual questionnaires submitted as files*
 - *Eurostat validates data*
 - **Automated checks:** structural validation (StruVal), content validation (ConVal)
 - **Manual checks:** data revision using validation tools
 - **Validation dialog** using MS Teams (backup: email)
- Eurostat to **publish** EU Members States data **by 31 January** (2026)
- Used for NECPR prefilling (for 2027)



Eurostat's energy

← ↻ 🏠 📄 https://ec.europa.eu/eurostat/web/energy/overview

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ENERGY


Overview

- Overview
- Database ▾
- Visualisations
- Publications
- Information on data
- Methodology
- Quality
- Legislation



Which information can I find here?

In this section, you can find information on the variety of energy-related topics. This covers for *avamnio*:



National Energy and Climate Plans

NECP's for 2021-2030: **every five years** starting 2019

- the draft NECP (2018), the final NECP (2019)
- the draft updated NECPs (2023), the final updated NECP (2024)

Followed by (last time in May 2025):

- EU-wide assessment of the final updated NECPs accompanied by
- Staff Working Document with **individual assessment**



National Energy and Climate Progress Report

NECPR's: every two years starting 2023

- **Same timeline as for GHG policies** and measures, projections, final inventories
- Data based submission **through webforms**
- **European statistics** available **prefilled by the Commission**
 - *Single entry point data collection*
 - *Please use Eurostat data whenever possible!*
 - *Please indicate clearly and precisely the source of data!*



National Energy and Climate Progress Report

- Based as much as possible on **Eurostat's data**
- When available, using the same structures, definitions and methodology
- **Table structures copied** as much as possible to **facilitate understanding, limit data errors** and **additional effort** from reporting countries
- The collaboration between the EEA and Eurostat intends to achieve the above-indicated points
- **If data revision** is necessary, please resubmit the annual questionnaire using the standard **annual data submission protocol**



National Energy and Climate Progress Report

- The annual **Energy Balances** of the Member States and EnC Contracting Parties and the EU are a **key output** of this data collection.
- Together with the **SHARES** (Short Assessment of Renewable Energy Sources) **tool, energy balances** (used for **Annex XVI, Table 9**) provide valuable information on the **structure of the energy systems** across the EU; allow monitoring of major EU and national energy policies and targets (**energy dependency, penetration of renewable energy sources, energy efficiency**) while it contributes significantly to assess the carbon dioxide annual emission inventories.
- **SHARES** data are mapped to **Annex II, Tables 1 to 5**
- **Biomass** data are prefilled to **Annex II, Table 6**



National Energy and Climate Progress Report

Information on the progress accomplished towards reaching the objectives, targets and contributions (art 17(2)a)

Decarbonisation:
Article 4
Annexes I, III

Decarbonisation:
Renewables
Article 4
Annex II

Energy Efficiency
Article 5
Annex IV

Energy Security
Article 6
Annex V

Internal Energy
Market
Article 7
Annex VI

RIC
Article 8
Annexes VIII

Energy poverty
Article 17
Annex XVIII

Information on implementation and updates of policies and measures (art 17(2)c)... towards financing and implementing including a review of actual investment against initial investment assumptions (art 17(2)a... quantification of the impact on air quality and on emissions of air pollutants (art 17(2)e)

General
elements
Article 9
Annex IX

Energy efficiency
New EED Art 7
Article 9
Annex X

Energy efficiency
EED Art 7 savings
Article 10
Annex XI

Energy Efficiency
EED Art 5
reporting
Article 11
Annex XII

Progress towards
financing
Article 12
Annex XIII

Air quality and
pollutants
Article 13
Annex XIV

Energy Subsidies
Article 14
Annex XV

Additional
obligations for
renewable
energy
Article 15
Annex XVI

Additional
obligations for
energy efficiency
Article 16
Annex XVII

Reporting on
energy poverty
and just
transition
Article 17
Annexes XIX, XX

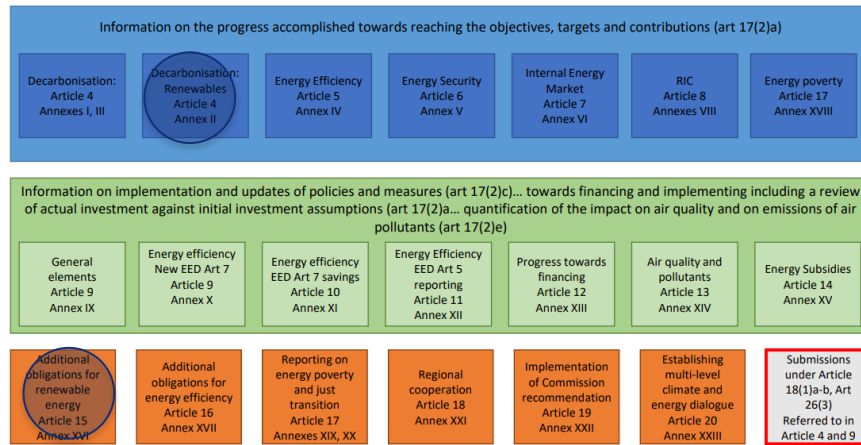
Regional
cooperation
Article 18
Annex XXI

Implementation
of Commission
recommendation
Article 19
Annex XXII

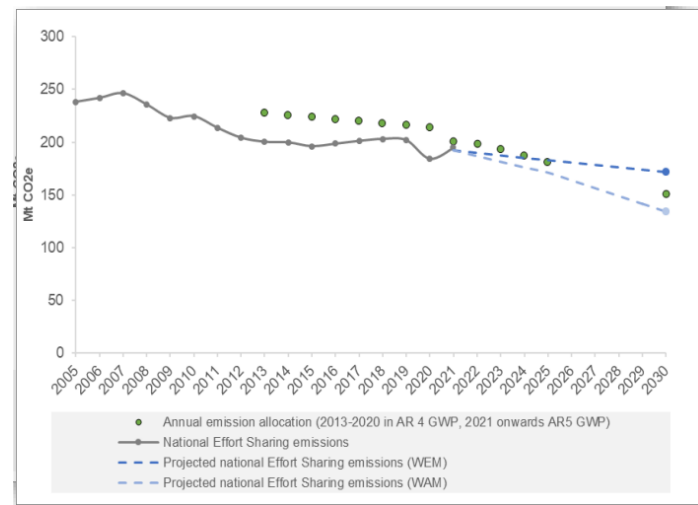
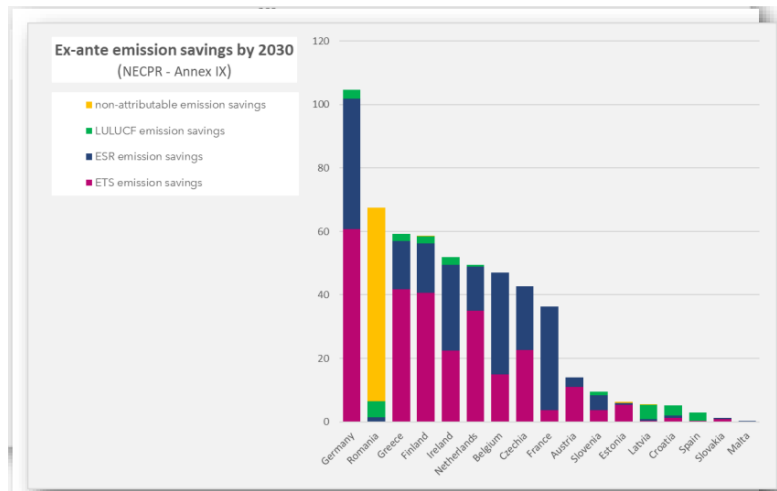
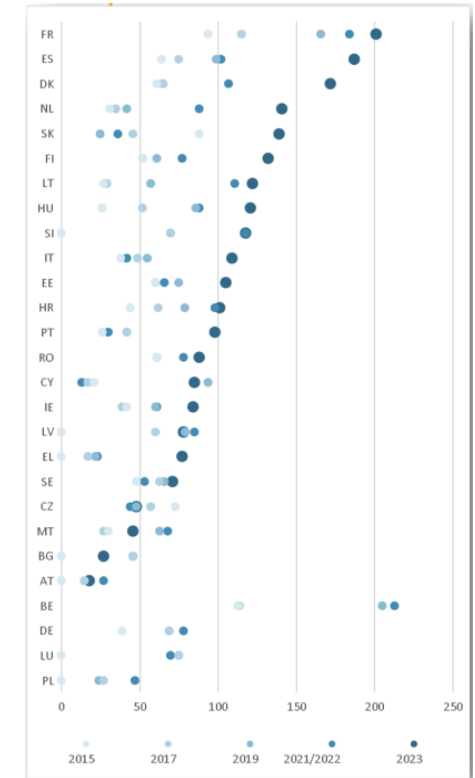
Establishing
multi-level
climate and
energy dialogue
Article 20
Annex XXIII

Submissions
under Article
18(1)a-b, Art
26(3)
Referred to in
Article 4 and 9

National Energy and Climate Progress Report



Country	Overall LTS goal by 2050	2021 updates Article 18(1)(a) and Annex V(b)	2023 NECP Annex I - Table 1
Finland	Carbon neutrality by 2035	no update	2035
Denmark	Climate neutrality	Climate neutrality by 2050 at the latest	2050
Netherlands	Quantitative GHG emission reduction target	no update	2050
Latvia	Climate neutrality	n.a.	2050
Italy	Climate neutrality	n.a.	2050
Lithuania	Climate neutrality	n.a.	2050
Austria	Climate neutrality	Climate neutrality by 2040	2050
Portugal	Carbon neutrality	n.a.	2050
Sweden	Climate neutrality by 2045 and negative thereafter	no update	2050
Spain	Climate neutrality	no update	2050
Malta	Unspecified	n.a.	2050
Czechia	Unspecified	n.a.	2050
Cyprus	Unspecified	n.a.	2050
Greece	Unspecified	no update	2050
Slovakia	Climate neutrality	no update	2050
France	Carbon neutrality	no update	2050
Bulgaria	Unspecified	n.a.	2050
Slovenia	Climate neutrality	n.a.	2050
Estonia	quantitative GHG emission reduction target	n.a.	2050
Romania	-	0	2050
Belgium	Different regional goals	no update	2050
Ireland	-	0	2050
Hungary	Climate neutrality	n.a.	2050
Croatia	Unspecified	n.a.	2050
Luxembourg	Climate neutrality	n.a.	2050



National Energy and Climate Progress Report

- Strong interest from EU Member States and Energy Community (EnC) Contracting Parties (CP's) to receive **more information on NECPR reporting**
- For the next reporting cycle in 2027, a **substantial update** to the reporting, including a revision of the implementing regulation
- **Improve and simplify reporting** based on learnings from 2023 and 2025, including a **complete rethink on how we reuse data, in particular from Eurostat**
- **Working Group 1 (WG1)** under the Energy Union Committee to hold next **meeting** by January 2026 with **EnC CP's invited**





SHARES

(Short Assessment of Renewable Energy Sources)

Presentation overview

- **Legal basis and overview**
- **SHARES questionnaire**



Overview



Legal basis

From reference year 2025 onwards, SHARES will be adapted to RED III (Directive 2023/2413).

There is also input from annual questionnaires (based on Regulation (EC) 1099/2008)



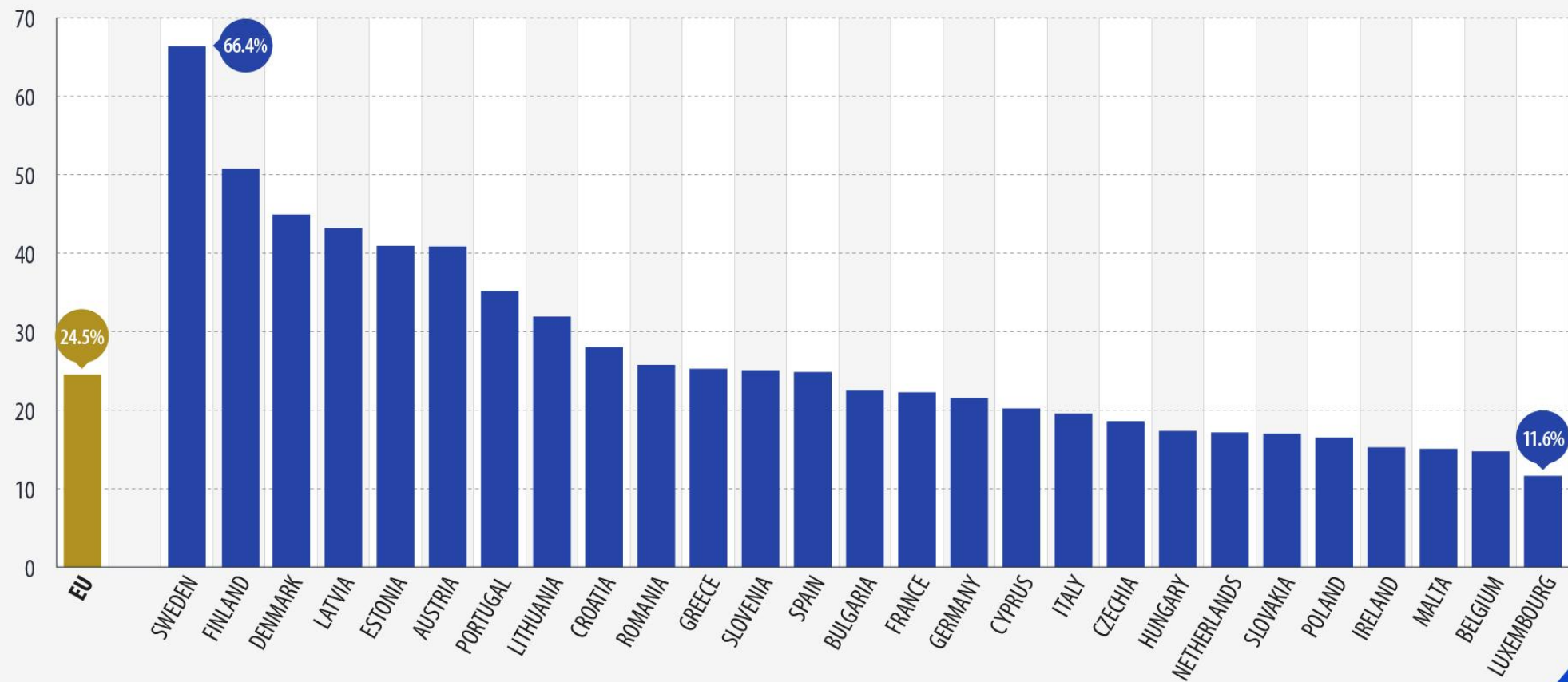
SHARES - main advantages

- SHARES tool does not replace legal obligations in RED II — it only assists in reporting.
- Member States go through the exact same method during the calculation of the share.
- Prevents any irregularities from varying parameters and rules used in different calculation methods and ensures harmonised and comparable results for all reporting countries.
- Using SHARES tool is a more efficient approach than individual estimations/calculations performed by each EU Member State.



Share of energy from renewable sources in 2023

(%)



More information in Statistics Explained – [Renewable energy statistics](#):

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Renewable_energy_statistics

Data extracted in December 2024. | Planned article update: December 2025.

Renewable energy statistics



Contents

Highlights

Share of renewable energy almost tripled between 2004 and 2023

Wind and water provide most renewable electricity; solar is the fastest-growing energy source

Almost one-quarter of energy used for heating and cooling from renewable sources

10.8% of renewable energy used in transport activities in 2023

Source data for tables and graphs

Data sources

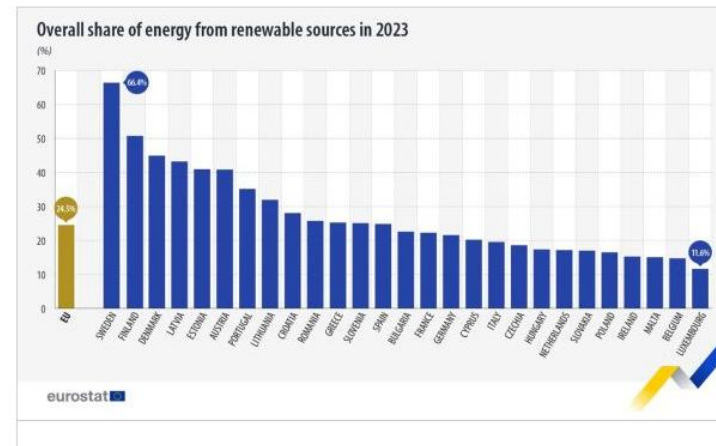
Context

Explore further

Highlights

In 2023, renewable energy represented 24.5% of energy consumed in the EU, up from 23.0% in 2022.

The share of energy from renewable sources used in transport in the EU reached 10.8% in 2023, up from 9.6% in 2022.



Becoming the world's first climate-neutral continent by 2050 requires ambitious measures to enable European citizens and businesses to benefit from sustainable green transition.

The use of renewable energy has many potential benefits, including a reduction in [greenhouse gas](#) emissions, the diversification of energy supplies and a reduced dependency on [fossil fuel](#) markets (in



SHARES questionnaire (SHARES tool)

Annex II, tables 1 to 5



Components

- SHARES offers results on four components:
 - *RES (%) – overall share of energy from renewable sources*
 - *RES-E (%) – share of energy from renewable sources in electricity*
 - *RES-T (%) – share of energy from renewable sources in transport*
 - *RES-H&C (%) – share of energy from renewable sources in heating and cooling*



Annual questionnaires

- Based on annual energy statistics under Regulation (EC) No 1099/2008. Five annual energy questionnaires are uploaded into SHARES :
 - Coal (covers solid fossil fuels and manufactured gases)
 - Oil (covers crude oil and derived oil products)
 - Natural gas
 - Electricity & Heat
 - Renewables (also includes renewable and non-renewable wastes)



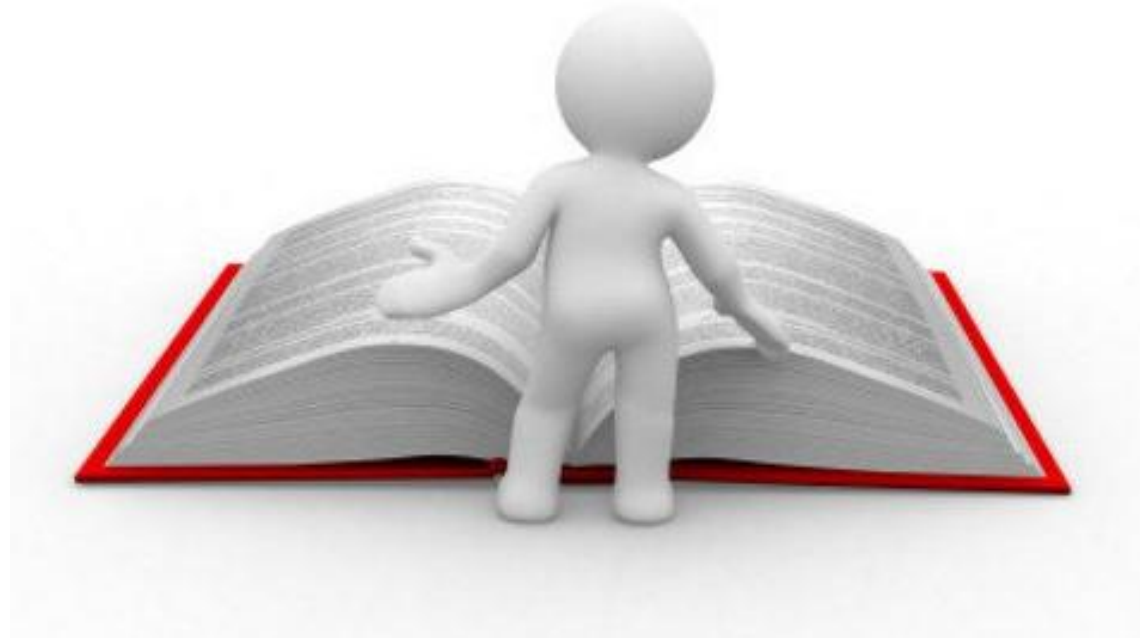
From reference year 2025 onwards also hydrogen

Additional data

- Countries to provide additional information that is not covered by Regulation (EC) No 1099/2008:
 - Compliant (sustainable) biofuels, biomass, biomass fuels and bioliquids
 - Heat pumps (to be removed from 2025 onwards)
 - Mixed hydro plants (to be removed from 2025 onwards)
 - Cooperation mechanisms (statistical transfers)
 - Biomethane injected in the grid, imported or exported and/or to be accounted towards a specific sector (e.g. transport) on the basis of the mass-balance system
 - Renewable cooling



SHARES Manual and SHARES website



[Additional data - Energy - Eurostat \(europa.eu\)](http://europa.eu)

Questions and conclusions



Thank you very much for your attention!

Tamas-Roland.Edelenyi@ec.europa.eu

Fernando.Diaz-Alonso@ec.europa.eu

<http://ec.europa.eu/eurostat>

