



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



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CLIMATE CHANGE: A STATISTICAL SHORT- TERM ANSWER

Eurostat – Unit E2: Environmental statistics and accounts; sustainable development

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Overview

1. Context
2. What is climate change ?
3. Statistical international and European initiatives
4. Statistical frameworks to measure climate change
5. Eurostat short-term answer
6. Future plans



1. Context

Target set by European Commission of a climate-neutral EU by 2050

European statistical system needs to

- Evaluate
- Monitor impact of climate change
(climate change mitigation and climate change adaptation)
- Measure economic growth, jobs, investments



2. What is climate change?

two workstreams interlinked: climate change mitigation and climate change adaptation

90's United National Framework Convention on Climate change &
intergovernmental panel on climate change

IPCC effective climate change adaptation policies and
strategies to mitigate against the impacts of climate change

Climate change mitigation = implementing policies to reduce greenhouse gas emission and enhance sinks

Climate change adaptation = process of adjustment to actual or expected climate and its effects



3.1 International initiatives

- IMF G20 data gap initiative , 2022
Seven recommendations in climate change mitigation and adaptation
Implementation towards 2026
- OECD International Programme for Action on Climate
Summary of information on greenhouse gas emissions
Assessment of climate-related hazards, key trends in climate action
- UN UNSD [Global Set](#) March 2022 – 158 indicators – 5 areas of which CC mitigation, adaptation
UNECE June 2023 - core disaster-risk-related indicators on Measuring Hazardous Events and Disasters
UNECE [guidelines on the role of national statistical offices in achieving national climate objectives.](#)



3.2 European initiatives

European Central Bank initiatives

January 2023 - [Towards climate change related statistics](#)

December 2023 - [Towards macroprudential frameworks for managing climate risk](#)

Committee of Monetary statistics, Finance and Balance of payments initiatives (CMFB)

Statistics on sustainable finance and climate related risks : [report in April 2023](#)

European Statistical Forum

Conference in January 2025 about 'Closing the Data Gaps on Climate Change'.

European Environmental Agency (EEA)

indicator on economic losses due to extreme events

European statistical system (ESS)

review of its climate change related statistics in 2021

Non-statistical EU data initiatives

[Taxonomy on sustainable finance](#)



4. Statistical frameworks

Classifications (NACE, COFOG, classification of environmental purposes)

National accounts (SNA) – System of environmental economic accounting (SEEA)

Environmental accounts (Env. Goods and services sector accounts;
environmental protection expenditures accounts;
environmental subsidies and similar transfers)

Initiative	Address climate impacts / climate change risks	Micro or macro approach	SNA/SEEA approach
G20 DGI	Both	Macro	Yes
ECB and CFMB	Climate change risks	Micro	Partially
OECD IPAC monitor	Both	Micro	
Non-statistical EU initiatives – taxonomy	Climate impacts	Micro	



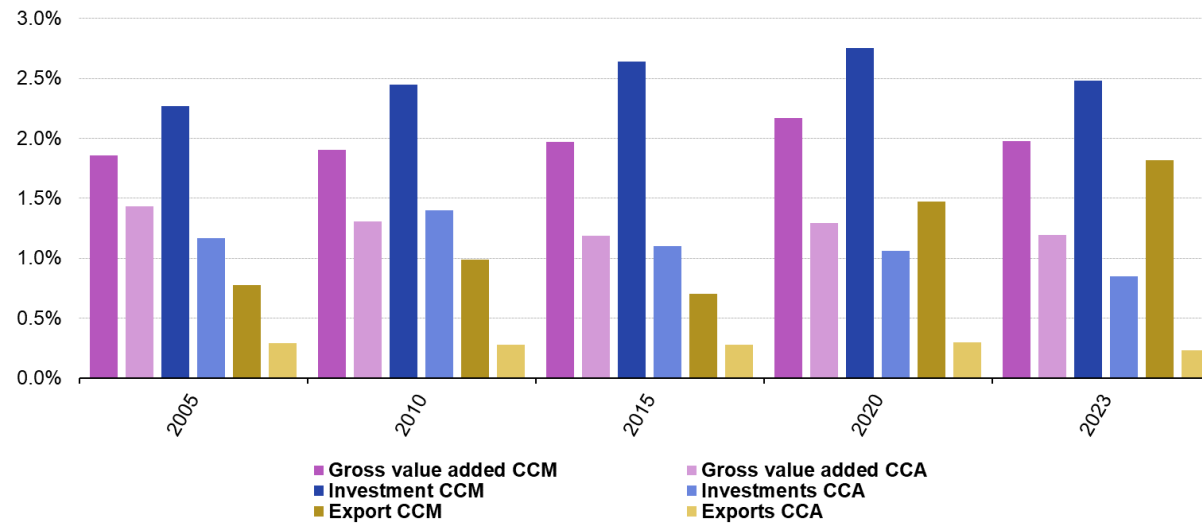
5. Eurostat short-term answer

- 2021-2023 project
- Harmonised approach across EU Member States
- Focus on four policy areas: circular economy, climate change mitigation, climate change adaptation and bioeconomy
- Investments, output, GVA, exports, imports, employment
- Structural Business Statistics, National accounts input-output tables
- How much activity is devoted to policy areas: full NACE, partial (estimation of shares)
- Macro approach – close to National accounts but not environmental accounting



Some empirical results

EU27
Climate change mitigation (CCM) and climate change adaptation (CCA) estimations - % of total





6. Future plans

- a. Amendment of European environmental-economic accounts regulation
 - 2024 adoption – implementation in environmental accounts 2025
 - End of 2024 – data publication on climate change **mitigation** including investments
 - End of 2026 – data collected from countries
 - Env. Goods and services sector accounts
 - Investments in climate change mitigation
- b. Climate change adaptation
 - Dashboards
 - Concept not included in SEEA
 - Update of SEEA central framework



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Thank you!

Further information:

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