

**Changes to legislation:** There are outstanding changes not yet made to Regulation (EU) No 525/2013 of the European Parliament and of the Council. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

## ANNEX III

### LIST OF ANNUAL INDICATORS

**Table 1: list of priority indicators<sup>a</sup>**

No	Nomenclature in Eurostat energy efficiency indicators	Indicator	Numerator/denominator	Guidance/definitions <sup>bc</sup>
1	MACRO	Total CO <sub>2</sub> intensity of GDP, t/million euro	Total CO <sub>2</sub> emissions, kt	Total CO <sub>2</sub> emissions (excluding LULUCF) as reported in the CRF.
			GDP, billion euro (EC95)	Gross domestic product at constant 1995 prices (source: National Accounts).
2	MACRO B0	Energy-related CO <sub>2</sub> intensity of GDP, t/million euro	CO <sub>2</sub> emissions from energy consumption, kt	CO <sub>2</sub> emissions from combustion of fossil fuels (IPCC source category 1A, sectoral approach).
			GDP, billion euro (EC95)	Gross domestic product at constant 1995 prices (source: National Accounts)
3	TRANSPORT C0	CO <sub>2</sub> emissions from passenger cars, kt		CO <sub>2</sub> emissions from the combustion of fossil fuels for all transport activity with passenger cars (automobiles designated

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				primarily for transport of persons and having capacity of 12 persons or fewer; gross vehicle weight rating of 3 900 kg or less — IPCC source category 1A3bi).
		Number of kilometres by passenger cars, Mkm		Number of vehicle kilometres by passenger cars (source: transport statistics). <i>Note:</i> activity data should be consistent with the emission data, if possible.
4	INDUSTRY A1	Energy-related CO <sub>2</sub> intensity of industry, t/ million euro	CO <sub>2</sub> emissions from industry, kt	Emissions from combustion of fossil fuels in manufacturing industries, construction and mining and quarrying (except coal mines and oil and gas extraction) including combustion for the generation of electricity and heat (IPCC source category 1A2). Energy used for transport by industry

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				should not be included here but in the transport indicators. Emissions arising from off-road and other mobile machinery in industry should be included in this sector.
			Gross value-added total industry, billion euro (EC95)	Gross value added at constant 1995 prices in manufacturing industries (NACE 15-22, 24-37), construction (NACE 45) and mining and quarrying (except coal mines and oil and gas extraction) (NACE 13-14) (source: National Accounts).
5	HOUSEHOLDS A.1	Specific CO <sub>2</sub> emissions of households, t/ dwelling	CO <sub>2</sub> emissions from fossil fuel consumption households, kt	CO <sub>2</sub> emissions from fossil fuel combustion in households (IPCC source category 1A4b).
			Stock of permanently occupied dwellings, 1 000	Stock of permanently occupied dwellings.
6	SERVICES A0	CO <sub>2</sub> intensity of the commercial and institutional	CO <sub>2</sub> emissions from fossil fuel consumption	CO <sub>2</sub> emissions from fossil fuel combustion in

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		sector, t/million euro	in commercial and institutional sector, kt	commercial and institutional buildings in the public and private sectors (IPCC source category 1A4a). Energy used for transport by services should not be included here but in the transport indicators.
			Gross value-added services, billion euro (EC95)	Gross value added at constant 1995 prices in services (NACE 41, 50, 51, 52, 55, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 80, 85, 90, 91, 92, 93, 99) (source: National Accounts).
7	TRANSFORMATION B0	Specific CO <sub>2</sub> emissions of public and autoproducer power plants, t/TJ	CO <sub>2</sub> emissions from public and autoproducer thermal power stations, kt	CO <sub>2</sub> emissions from all fossil fuel combustion for gross electricity and heat production by public and autoproducer thermal power and combined heat and power plants. Emissions from heat only plants are not included.
			All products — output by public and	Gross electricity produced and any heat sold

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			autoproducer thermal power stations, PJ	to third parties (combined heat and power plants — CHP) by public and autoproducer thermal power and combined heat and power plants. Output from heat only plants is not included. Public thermal plants generate electricity (and heat) for sale to third parties, as their primary activity. They may be privately or publicly owned. Autoproducer thermal power stations generate electricity (and heat) wholly or partly for their use as an activity, which supports their primary activity. The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included.
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				(source: energy balance).
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<b>c</b>	The references to IPCC source categories refer to IPCC (1996) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.			

**Table 2: list of additional priority indicators<sup>a</sup>**

No	Nomenclature in Eurostat energy efficiency indicators	Indicator	Numerator/denominator	Guidance/definitions <sup>b</sup>
1	TRANSPORT D0	CO <sub>2</sub> emissions from freight transport on road, kt		CO <sub>2</sub> emissions from the combustion of fossil fuel for all transport activity with light duty trucks (vehicles with a gross vehicle weight of 3 900 kg or less designated primarily for transportation of light-weight cargo or which are equipped with special features such as four-wheel drive for off-road operation — IPCC source category 1A3bii) and heavy duty trucks (any vehicle rated at more than 3 900 kg gross vehicle weight designated primarily for transportation of heavy-

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				weight cargo — IPCC source category 1A3biii excluding buses).
		Freight transport on road, Mtkm		Number of tonne-kilometres transported in light and heavy duty trucks on road; one tonne-kilometre represents the transport of one tonne by road over one kilometre (source: transport statistics). <i>Note:</i> activity data should be consistent with the emission data, if possible.
2	INDUSTRY A1.1	Total CO <sub>2</sub> intensity — iron and steel industry, t/ million euro	Total CO <sub>2</sub> emissions from iron and steel, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of iron and steel including combustion for the generation of electricity and heat (IPCC source category 1A2a), from the iron and steel production process (IPCC source category 2C1) and from ferroalloys production process (IPCC

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				source category 2C2).
			Gross value-added — iron and steel industry, billion euro (EC95)	Gross value added at constant 1995 prices in manufacture of basic iron and steel and of ferro-alloys (NACE 27.1), manufacture of tubes (NACE 27.2), other first processing of iron and steel (NACE (27.3), casting of iron (NACE 27.51) and casting of steel (NACE 27.52) (source: National Accounts).
3	INDUSTRY A1.2	Energy-related CO <sub>2</sub> intensity — chemical industry, t/ million euro	Energy-related CO <sub>2</sub> emissions chemical industries, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of chemicals and chemical products including combustion for the generation of electricity and heat (IPCC source category 1A2c).
			Gross value-added chemical industry, billion euro (EC95)	Gross value added at constant 1995 prices in manufacture of chemicals and chemical products (NACE 24) (source:

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				National Accounts).
4	INDUSTRY A1.3	Energy-related CO <sub>2</sub> intensity — glass, pottery and building materials industry, t/ million euro	Energy-related CO <sub>2</sub> emissions glass, pottery and building materials, kt	CO <sub>2</sub> emissions from combustion of fuels in manufacture of non-metallic mineral products (NACE 26) including combustion for the generation of electricity and heat.
			Gross value-added — glass, pottery and buildings materials industry, billion euro (EC95)	Gross value added at constant 1995 prices in manufacture of non-metallic mineral products (NACE 26) (source: National Accounts).
5	INDUSTRY C0.1	Specific CO <sub>2</sub> emissions of iron and steel industry, t/t	Total CO <sub>2</sub> emissions from iron and steel, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of iron and steel including combustion for the generation of electricity and heat (IPCC source category 1A2a), from the iron and steel production process (IPCC source category 2C1) and from ferroalloys production process (IPCC source category 2C2).

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			Production of oxygen steel, kt	Production of oxygen steel (NACE 27) (source: production statistics).
6	INDUSTRY C0.2	Specific energy-related CO <sub>2</sub> emissions of cement industry, t/t	Energy-related CO <sub>2</sub> emissions from glass, pottery and building materials, kt	CO <sub>2</sub> emissions from combustion of fuels in manufacture of non-metallic mineral products (NACE 26) including combustion for the generation of electricity and heat.
			Cement production, kt	Cement production (NACE 26) (source: production statistics).

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1	TRANSPORT B0	Specific diesel related CO <sub>2</sub> emissions of passenger cars, g/100 km	CO <sub>2</sub> emissions of diesel-driven passenger cars, kt	CO <sub>2</sub> emissions from the combustion of diesel for all transport activity with passenger cars (automobiles designated primarily for transport of persons and having capacity of 12 persons or fewer; gross

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				vehicle weight rating of 3 900 kg or less — IPCC source category 1A3bi only diesel).
			Number of kilometres of diesel-driven passenger cars, million km	Number of vehicle kilometres of total diesel-driven passenger cars licensed to use roads open to public traffic (source: transport statistics).
2	TRANSPORT B0	Specific petrol related CO <sub>2</sub> emissions of passenger cars, g/100 km	CO <sub>2</sub> emissions of petrol-driven passenger cars, kt	CO <sub>2</sub> emissions from the combustion of petrol for all transport activity with passenger cars (automobiles designated primarily for transport of persons and having capacity of 12 persons or fewer; gross vehicle weight rating of 3 900 kg or less — IPCC source category 1A3bi only petrol).
			Number of kilometres of petrol-driven passenger cars, million km	Number of vehicle kilometres of total petrol-driven passenger cars licensed to use roads open to public traffic (source: transport statistics).

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3	TRANSPORT C0	Specific CO <sub>2</sub> emissions of passenger cars, t/pkm	CO <sub>2</sub> emissions from passenger cars, kt	CO <sub>2</sub> emissions from the combustion of fossil fuels for all transport activity with passenger cars (automobiles designated primarily for transport of persons and having capacity of 12 persons or fewer; gross vehicle weight rating of 3 900 kg or less — IPCC source category 1A3bi).
			Passenger transport by cars, Mpkm	Number of passenger-kilometres travelled in passenger cars; one passenger-kilometre is the transport of one passenger over one kilometre (source: transport statistics). <i>Note:</i> activity data should be consistent with the emission data, if possible.
4	TRANSPORT E1	Specific air-transport emissions, t/passenger	CO <sub>2</sub> emissions from domestic air transport, kt	CO <sub>2</sub> emissions from domestic air transport (commercial, private, agricultural, etc.), including take-offs and landings (IPCC source category 1A3aii). Exclude use of fuel

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				at airports for ground transport. Also exclude fuel for stationary combustion at airports.
			Domestic air-passengers, million	Number of persons, excluding on-duty members of the flight and cabin crews, making a journey by air (domestic aviation only) (source: transport statistics). <i>Note:</i> activity data should be consistent with the emission data, if possible.
5	INDUSTRY A1.4	Energy-related CO <sub>2</sub> intensity — food, drink and tobacco industry, t/million euro	Energy-related CO <sub>2</sub> emissions food industries, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of food products and beverages and tobacco products including combustion for the generation of electricity and heat (IPCC source category 1A2e).
			Gross value-added — food, drink and tobacco industry, million euro (EC95)	Gross value added at constant 1995 prices in manufacture of food products and beverages (NACE 15) and tobacco products (NACE 16)

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				(source: National Accounts).
6	INDUSTRY A1.5	Energy-related CO <sub>2</sub> intensity — paper and printing industry, t/million euro	Energy-related CO <sub>2</sub> emissions paper and printing, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of pulp, paper and paper products and publishing, printing and reproduction of recorded media including emissions from combustion for the generation of electricity and heat (IPCC source category 1A2d).
			Gross value-added — paper and printing industry, million euro (EC95)	Gross value added at constant 1995 prices in manufacture of pulp, paper and paper products (NACE 21) and publishing, printing and reproduction of recorded media (NACE 22) (source: National Accounts).
7	HOUSEHOLDS A0	Specific CO <sub>2</sub> emissions of households for space heating, t/m <sup>2</sup>	CO <sub>2</sub> emissions for space heating in households, kt	CO <sub>2</sub> emissions from fuel combustion for space heating in households.
			Surface area of permanently occupied dwellings, million m <sup>2</sup>	Total surface area of permanently occupied dwellings.
8	SERVICES B0	Specific CO <sub>2</sub> emissions of commercial and institutional	CO <sub>2</sub> emissions from space heating in	CO <sub>2</sub> emissions from fossil fuel combustion for space heating

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		sector for space heating, kg/m <sup>2</sup>	commercial and institutional, kt	in commercial and institutional buildings in the public and private sectors.
			Surface area of services buildings, million m <sup>2</sup>	Total surface area of services buildings (NACE 41, 50, 51, 52, 55, 63, 64, 65, 66, 67, 70, 71, 72, 73, 74, 75, 80, 85, 90, 91, 92, 93, 99).
9	TRANSFORMATION D0	Specific CO <sub>2</sub> emissions of public power plants, t/TJ	CO <sub>2</sub> emissions from public thermal power stations, kt	CO <sub>2</sub> emissions from all fossil fuel combustion for gross electricity and heat production by public thermal power and combined heat and power plants (IPCC source categories 1A1ai and 1A1aii). Emissions from heat only plants are not included.
			All products output by public thermal power stations, PJ	Gross electricity produced and any heat sold to third parties (combined heat and power plants — CHP) by public thermal power and combined heat and power plants. Output from heat only plants is not included. Public thermal plants generate electricity (and

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				heat) for sale to third parties, as their primary activity. They may be privately or publicly owned. The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included (source: energy balance).
10	TRANSFORMATION E0	Specific CO <sub>2</sub> emissions of autoproducer plants, t/TJ	CO <sub>2</sub> emissions from autoproducers, kt	CO <sub>2</sub> emissions from all fossil fuel combustion for gross electricity and heat production by autoproducer thermal power and combined heat and power plants.
			All products output by autoproducer thermal power stations, PJ	Gross electricity produced and any heat sold to third parties (combined heat and power — CHP) by autoproducer thermal power and combined heat and power plants. Autoproducer thermal power stations generate electricity (and heat) wholly or partly for their use as



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				an activity, which supports their primary activity. The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included (source: energy balance).
11	TRANSFORMATION	Carbon intensity of total power generation, t/TJ	CO <sub>2</sub> emissions from classical power production, kt	CO <sub>2</sub> emissions from all fossil fuel combustion for gross electricity and heat production by public thermal power and combined heat and power plants and by autoproducer thermal power and combined heat and power plants. Emissions from heat only plants are not included.
			All products output by public and autoproducer power stations, PJ	Gross electricity produced and any heat sold to third parties (combined heat and power — CHP) by public and autoproducer power and combined heat and power plants. Includes electricity production

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				from renewable sources and nuclear power (source: energy balance).
12	TRANSPORT	Carbon intensity of transport, t/TJ	CO <sub>2</sub> emissions from transport, kt	CO <sub>2</sub> emissions from fossil fuels for all transport activity (IPCC source category 1A3).
			Total final energy consumption from transport, PJ	Includes total final energy consumption of transport from all energy sources (including biomass and electricity consumption) (source: energy balance).
13	INDUSTRY C0.3	Specific energy-related CO <sub>2</sub> emissions of paper industry, t/t	Energy-related CO <sub>2</sub> emissions paper and printing industries, kt	CO <sub>2</sub> emissions from combustion of fossil fuels in manufacture of pulp, paper and paper products and publishing, printing and reproduction of recorded media including emissions from combustion for the generation of electricity and heat (IPCC source category 1A2d).
			Physical output of paper, kt	Physical output of paper (NACE 21) (source: production statistics).

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14	INDUSTRY	CO <sub>2</sub> emissions from the industry sector, kt		Emissions from combustion of fossil fuels in manufacturing industries, construction and mining and quarrying (except coal mines and oil and gas extraction) including combustion for the generation of electricity and heat (IPCC source category 1A2). Energy used for transport by industry should not be included here but in the transport indicators. Emissions arising from off-road and other mobile machinery in industry should be included in this sector.
		Total final energy consumption from industry, PJ		Includes total final energy consumption of industry from all energy sources (including biomass and electricity consumption) (source: energy balance).
15	HOUSEHOLDS	CO <sub>2</sub> emissions from households, kt		CO <sub>2</sub> emissions from fossil fuel combustion in households

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				(IPCC source category 1A4b).
		Total final energy consumption from households, PJ		Includes total final energy consumption of households from all energy sources (including biomass and electricity consumption) (source: energy balance).

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**Changes and effects yet to be applied to :**

- Regulation revoked by [S.I. 2021/519 Sch.](#)