Projection indicators

Guidance

MS shall report numerator and denominator, if not included in the CRF.
MS should follow this guidance. If they cannot follow exactly this guidance or if numerator and denominator are not entirely consistent, MS should clearly indicate this.
The references to IPCC source categories refer to IPCC (1996) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.

For more detailed guidance/definitions for indicators 1-7 see Annex II of the Implementing Provisions (Decision 2005/166/EC) of the MM Decision. Indicators 1-7 should be consistent with the equivalent indicators in Annex II, if possible; indicators 8-10 should be consistent with the information provided in the CRF.

MS should include the numerator and denominators as indicated, where data can not be provided in the correct units or for the correct sectors MS should clearly indicate this in the comments section.

Priority indicators (Annex III of the implementing provisions)																
No	Nomenclature in Eurostat energy efficiency	Indicator / numerator / denominator		Unit	Guidance / definitions[1]	Guidance / source	With existing measures					With additional measures					Comments Member State
							2010	2015	2020	2025	2030	2010	2015	2020	2025	2030	
1	MACRO	**Indicator**	**CO2 intensity of GDP**	**t CO2 / EUR million**			**0,389186966**	**0,235015143**	**0,263761042**	**0,221387599**	**0,183053456**	**0,389186966**	**0,235015143**	**0,263761042**	**0,221387599**	**0,183053456**	
		Numerator	Total CO2 emissions	kt CO2	Total CO2 emissions (excluding LULUCF) as reported in the CRF (as reported in EmissionProjections sheet)	National GHG inventory (as reported in EmissionProjections sheet)	52771,02834	32554,76758	38370,11	33869,20319	29371,11	52771,02834	32554,76758	38370,11	33869,20319	29371,11	
		Denominator	GDP	million EUR (2000)	Gross domestic product at constant 2000 prices	National accounts	135593	138522	145473	152986	160451	135593	138522	145473	152986	160451	GDP estimates year basis: 2000
2	TRANSPORT C0	**Indicator**	**Passenger car CO2**	**kt CO2 / M pkm**			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
		Numerator	CO2 emissions from passenger cars	kt CO2	CO2 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 3900 kg or less).	IPCC source category 1A3bi											
		Denominator	Number of kilometres by passenger cars	million passenger km	Number of passenger kilometres by passenger cars. Note: Activity data should be consistent with the emission data, if possible.	Transport statistics	75192,04485	75240,85508	75289,66531	76795,04	78330,56251	75192,04485	75240,85508	75289,66531	76795,04	78330,56251	
3	TRANSPORT D0	**Indicator**	**Freight transport CO2**	**kt CO2 / M tkm**			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
		Numerator	CO2 emissions from freight transport (all modes)	kt CO2	CO2 emissions from the combustion of fossil fuel for all transport activity including light duty trucks (vehicles with a gross vehicle weight of 3900 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) and heavy duty trucks (any vehicle rated at more than 3900 kg gross vehicle weight designated primarily for transportation of heavy-weight cargo). Includes rail and domestic air and marine transport.	IPCC source categories 1A3bii and 1A3biii (excluding buses)											
		Denominator	Freight transport (all modes)	million tonnes km	Number of tonne-kilometres transported Note: Activity data should be consistent with the emission data, if possible.		25778,69407	28154,87288	30744,85127	32313,14767	33961,44296	25778,69407	28154,87288	30744,85127	32313,14767	33961,44296	
4	INDUSTRY A1	**Indicator**	**Energy-related CO2 intensity of industry**	**t CO2 / million EUR**			**685,2668825**	**0**	**0**	**0**	**0**	**685,2668825**	**0**	**0**	**0**	**0**	
		Numerator	CO2 emissions from fossil fuel consumption industry	kt CO2	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. 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.	IPCC source category 1A2 (as reported in EmissionProjections sheet)	9349,913308	0	0	0	0	9349,913308	0	0	0	0	
		Denominator	Gross value-added total industry	billion EUR (EC95) or (2000)	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)	National accounts	13,64419257	13,89163797	13,38356352	14,06625977	14,78378039	13,64419257	13,89163797	13,38356352	14,06625977	14,78378039	current prices (year 2000)
5	HOUSEHOLDS A.1	**Indicator**	**Specific CO2 emissions of households**	**t CO2 / dwelling**			**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	
		Numerator	CO2 emissions from fossil fuel consumption households, kt	kt CO2	CO2 emissions from fossil fuel combustion in households.	IPCC source category 1A4b	2501,80037	0	1949	1919,385368	1890	2501,80037	0	1949	1919,385368	1890	
		Denominator	Stock of permanently occupied dwellings	1000 dwellings	Stock of permanently occupied dwellings		0	0	0	0	0	0	0	0	0	0	
6	SERVICES A0	**Indicator**	**CO2 intensity of the services sector**	**t / million EUR**			**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	
		Numerator	CO2 emissions from fossil fuel consumption in services	kt CO2	CO2 emissions from fossil fuel combustion in 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.	IPCC source category 1A4a (as reported in EmissionProjections sheet)	1344,466483	0	2848	3951,169047	5055	1344,466483	0	2848	3951,169047	5055	
		Denominator	Gross value-added services	billion EUR (EC95) or (2000)	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)	National accounts	0	0	0	0	0	0	0	0	0	0	---Please specify which year is the basis for your GDP estimates---
7	TRANSFORMATION B0	**Indicator**	**Specific CO2 emissions of public and autoproducer power plants**	**t CO2 / TJ**			**64,42596453**	**No data**	**72,36170368**	**No data**	**31,98264624**	**64,42596453**	**No data**	**72,36170368**	**No data**	**31,98264624**	
		Numerator	CO2 emissions from public and autoproducer thermal power stations	kt CO2	CO2 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.	(as reported in EmissionProjections sheet)	12167,22996	14021,11498	15875	10930,5	5986	12167,22996	14021,11498	15875	10930,5	5986	
		Denominator	All products –output by public and autoproducer thermal power stations	PJ	Gross electricity produced and any heat sold 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.	Energy balance	188,856	0	219,384	0	187,164	188,856	0	219,384	0	187,164	

8	AGRICULTURE	**Indicator**	**Specific N2O emissions of fertiliser and manure use**	**kg N2O / kg N**			**0,066906945**	**No data**	**No data**	**No data**	**No data**	**0,066906945**	**No data**	**No data**	**No data**	**No data**
		Numerator	N2O emissions from synthetic fertiliser and manure use	kt N2O	Direct N2O-emissions from synthetic fertilizer use and manure applied to soils		9,542898968	11,07875516	12,61461136	11,75731263	10,9000139	9,542898968	11,07875516	12,61461136	11,75731263	10,9000139
		Denominator	Use of synthetic fertiliser and manure	kt nitrogen			142,629424	0	0	0	0	142,629424	0	0	0	0
9	AGRICULTURE	**Indicator**	**Specific CH4 emissions of cattle production**	**kg CH4 / head**			**74,24810754**	**72,91033762**	**74,40061872**	**74,51654491**	**74,6615087**	**74,24810754**	**72,91033762**	**74,40061872**	**74,51654491**	**74,6615087**
		Numerator	CH4 emissions from cattle	kt CH4	CH4 emissions from enteric fermentation cattle		106,1747938	101,1873969	96,2	86,7	77,2	106,1747938	101,1873969	96,2	86,7	77,2
		Denominator	Cattle population	1000 head			1 430,00	1387,833333	1293	1163,5	1034	1430	1387,833333	1293	1163,5	1034
10	WASTE	**Indicator**	**Specific CH4 emissions from landfills**	**kt CH4 / kt**			**0,000746645**	**No data**	**No data**	**No data**	**No data**	**0,000746645**	**No data**	**No data**	**No data**	**No data**
		Numerator	CH4 emissions from landfills	kt CH4	Specific CH4 emissions from managed landfills		248,685782	0	0	0	0	248,685782	0	0	0	0
		Denominator	Municipal solid waste going to landfills	kt	Solid waste going to managed landfills		333070,9628	0	0	0	0	333070,9628	0	0	0	0

Additional relevant country-specific indicators

	Please mention sector	**Indicator**	**Please mention indicator name**	**Please mention unit**			**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**
		Numerator	Please mention numerator name	Please mention unit	Please include description	Please mention source										
		Denominator	Please mention denominator name	Please mention unit	Please include description	Please mention source										
	Please mention sector	**Indicator**	**Please mention indicator name**	**Please mention unit**			**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**
		Numerator	Please mention numerator name	Please mention unit	Please include description	Please mention source										
		Denominator	Please mention denominator name	Please mention unit	Please include description	Please mention source										
	Please mention sector	**Indicator**	**Please mention indicator name**	**Please mention unit**			**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**	**No data**
		Numerator	Please mention numerator name	Please mention unit	Please include description	Please mention source										
		Denominator	Please mention denominator name	Please mention unit	Please include description	Please mention source										

(1) The references to IPCC source categories refer to IPCC (1996) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories.