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Commission

Mobility and Transport

STATISTICAL POCKETBOOK

2025

EU Transport in figures



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PREFACE

Transport represents a crucial sector of the economy. This publication provides an overview of the most recent and most pertinent annual transport-related statistics in Europe. It covers the European Union and its 27 Member States (EU-27) and, as far as possible, the EU candidate countries, the EFTA countries and UK.

The content of this pocketbook is based on a range of sources including Eurostat, international organisations and associations, national statistics and, where no data were available, own estimates. Own estimates have mainly been produced to get an idea of the EU total. At the level of individual countries, they are merely indicative and should by no means be interpreted as official data.

In particular, the Commission services would like to thank the following organizations and associations for their valuable contributions and to acknowledge that they agreed to the use of their data:

- **European Automobile Manufacturers' Association (ACEA)**
- **FlightGlobal**
- **International Road Federation (IRF)**
- **International Transport Forum (ITF)**
- **International Union of Railways (UIC)**
- **United Nation Economic Commission for Europe (UNECE)**

The publication consists of three parts:

- (1) a general part with general economic and other relevant data.
- (2) a transport part covering both passenger and freight transport as well as other transport-related data, and, finally,
- (3) an energy and environmental part with data on the impact which the transport sector has on energy use and the environment.

Most of the tables have data up to 2023; where available, more recent data have been provided.

The tables of this pocketbook may also be found on the Europa site at: https://transport.ec.europa.eu/facts-funding/studies-data/eu-transport-figures-statistical-pocketbook_en

Many tables on the website contain more data than could be presented in this pocketbook. The sources referencing is more detailed in the excel tables presented on the internet. Some tables can be updated on the web before the publication of the next paper version.

Eurostat, the main data provider, may be accessed directly on the internet at: <https://ec.europa.eu/eurostat/data/database>

EEA, the data provider for the environmental part, can be accessed directly on the internet at: <https://www.eea.europa.eu/>

Comments on this publication and suggestions for improving it are appreciated. They should be sent to move-transport-data@ec.europa.eu

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SYMBOLS AND ABBREVIATIONS

12	<i>estimates are printed in italic</i>
%	per cent
-	not applicable, does not exist
blank	data not available
0	zero or figure less than half of unit used
EUR	euro
DG	Directorate-General of the European Commission
dwt	deadweight tons (shipping)
GDP	gross domestic product
gt	gross tonnage (shipping)
mio	1 million
mtow	maximum take-off weight (aircraft)
pkm	passenger-kilometre: a unit of measure: 1 passenger transported a distance of 1 kilometre
PPS	purchasing power standards
TEU	twenty-foot equivalent unit
tkm	tonne-kilometre: a unit of measure: 1 tonne transported a distance of 1 kilometre
 	break in horizontal time series
—	break in vertical time series

COUNTRY ABBREVIATIONS

EUROPEAN UNION COUNTRIES (EU-27) (ALSO EEA MEMBERS)			
		EU MEMBER STATE SINCE:	
BE	Belgium	1958	
BG	Bulgaria	2007	
CZ	Czech Republic	2004	
DK	Denmark	1973	
DE	Germany	1958	
EE	Estonia	2004	
IE	Ireland	1973	
EL	Greece	1981	
ES	Spain	1986	
FR	France	1958	
HR	Croatia	2013	
IT	Italy	1958	
CY	Cyprus	2004	
LV	Latvia	2004	
LT	Lithuania	2004	
LU	Luxembourg	1958	
HU	Hungary	2004	
MT	Malta	2004	
NL	Netherlands	1958	
AT	Austria	1995	
PL	Poland	2004	
PT	Portugal	1986	
RO	Romania	2007	
SI	Slovenia	2004	
SK	Slovak Republic	2004	
FI	Finland	1995	
SE	Sweden	1995	
OTHER EUROPEAN ECONOMIC AREA (EEA) AND IN EUROPEAN FREE TRADE ASSOCIATION (EFTA)			
IS	Iceland	EEA: 1994	EFTA: 1960
LI	Liechtenstein	EEA: 1994	EFTA: 1991
NO	Norway	EEA: 1994	EFTA: 1960
OTHER EUROPEAN FREE TRADE ASSOCIATION (EFTA)			
CH	Switzerland		EFTA: 1960
EUROPEAN UNION CANDIDATE COUNTRIES			
BA	Bosnia and Herzegovina		
ME	Montenegro		
MD	Moldova		
MK	North Macedonia		
GE	Georgia		
AL	Albania		
RS	Serbia		
TR	Türkiye		
UA	Ukraine		
OTHER COUNTRIES			
CN	China		
CS	Czechoslovakia (until 1992)		
JP	Japan		
RU	Russia		
UK	United Kingdom (EU Member 01.01.1973-31.01.2020)		
US	United States		

NB: The countries which were members of the EU in 1994 became members of the EEA in 1994, those which joined the EU in 1995 had already been EEA members since 1994 and those which joined the EU in 2004 and 2007 became members of the EEA upon accession to the EU. Croatia joined EEA in 2014.
The former GDR is always included in **DE**; unification on 3.10.1990.

PART 1

GENERAL DATA



PART 1

SUMMARY

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General data

1.1

	AREA	POPULA- TION	GDP (NOMINAL)	GDP PER HEAD IN PPS	
	1 000 km ²	million	billion EUR	EU-27 = 100	
	2024	on 1/1/2024	2023	2022	2023
EU-27	4 225.1	449.3	17 203.7	100	100
BE	30.7	11.8	596.2	119	118
BG	111.0	6.4	94.7	62	64
CZ	78.9	10.9	317.4	89	90
DK	42.9	6.0	376.4	135	125
DE	357.6	83.5	4 185.6	118	116
EE	45.3	1.4	38.2	84	80
IE	69.9	5.4	510.0	238	213
EL	131.7	10.4	225.2	67	69
ES	506.0	48.6	1 498.3	88	90
FR	638.5	68.5	2 822.5	98	99
HR	56.6	3.9	78.1	72	76
IT	302.1	59.0	2 131.4	98	99
CY	9.3	1.0	31.3	95	94
LV	64.6	1.9	39.4	69	71
LT	65.3	2.9	73.8	88	87
LU	2.6	0.7	81.0	252	237
HU	93.0	9.6	197.9	77	77
MT	0.3	0.6	20.5	105	107
NL	37.4	17.9	1 067.6	134	133
AT	83.9	9.2	473.2	123	120
PL	311.9	36.6	751.9	78	77
PT	92.2	10.6	267.9	77	81
RO	238.4	19.1	324.4	74	78
SI	20.3	2.1	64.0	89	92
SK	49.0	5.4	123.8	71	74
FI	338.4	5.6	272.8	107	105
SE	447.4	10.6	541.2	115	114
IS	102.7	0.4	29.1	132	135
NO	384.5	5.6	446.5	215	171
CH	41.3	9.0	827.0	157	152
BA	51.2	3.2	25.5	34	36
ME	13.9	0.6	7.0	49	51
MD	33.9	2.4	15.3	28	30
MK	25.4	1.8	14.6	42	41
GE	69.7	3.7	28.5	39	42
AL	28.8	2.8	21.8	34	36
RS	85.0	6.6	75.2	46	49
TR	780.3	85.4	1 030.5	68	72
UA			167.6	26	30
UK	244.4	68.3	3 127.0	102	99

NB: CY: area refers to the whole island.

FR: area and population include the five French overseas departments Guadeloupe, French Guiana, Martinique, Mayotte and La Réunion.

BA: UK: situation at mid-2022 for population data.

UA: situation on 1 January 2022 for population data.

AL: population data: 1 January 2023.

1.2 Growth in GDP and industrial production

	GROWTH IN GDP Real growth				GROWTH IN INDUSTRIAL PRODUCTION (excl. construction)			
	% change compared to previous year							
	2020	2021	2022	2023	2020	2021	2022	2023
EU-27	-5.6	6.3	3.5	0.4	-7.4	9.2	2.6	-1.5
BE	-4.8	6.2	4.2	1.3	-4.1	25.5	-0.5	-7.3
BG	-3.2	7.8	4.0	1.9	-6.3	10.1	13.0	-8.4
CZ	-5.3	4.0	2.8	-0.1	-7.0	6.5	2.0	-0.8
DK	-1.8	7.4	1.5	2.5	-5.5	9.8	12.4	9.2
DE	-4.1	3.7	1.4	-0.3	-9.6	4.6	-0.3	-1.9
EE	-2.9	7.2	0.1	-3.0	-2.7	12.8	1.6	-9.6
IE	7.2	16.3	8.6	-5.5	14.5	30.4	12.3	-2.5
EL	-9.2	8.7	5.7	2.3	-2.2	10.4	2.5	2.3
ES	-10.9	6.7	6.2	2.7	-9.5	7.5	2.5	-1.6
FR	-7.4	6.9	2.6	0.9	-11.1	5.6	0.6	0.9
HR	-8.3	12.6	7.3	3.3	-3.3	6.3	1.7	-0.2
IT	-8.9	8.9	4.8	0.7	-11.4	12.2	0.3	-2.0
CY	-3.2	11.4	7.4	2.6	-7.3	6.4	3.2	1.6
LV	-3.5	6.9	1.8	2.9	-1.6	6.4	0.8	-4.8
LT	0.0	6.4	2.5	0.3	-0.5	20.9	5.5	-5.2
LU	-0.9	7.2	1.4	-1.1	-10.7	8.2	-3.6	-4.3
HU	-4.3	7.1	4.3	-0.9	-6.9	9.5	6.1	-4.8
MT	-3.4	13.3	4.3	6.8	1.2	-0.9	1.5	7.1
NL	-3.9	6.3	5.0	0.1	-3.3	3.9	3.9	-1.1
AT	-6.3	4.8	5.3	-1.0	-6.0	11.3	6.9	0.1
PL	-2.0	6.9	5.3	0.1	-1.9	14.8	10.5	-1.0
PT	-8.2	5.6	7.0	2.6	-8.1	3.8	0.6	-3.1
RO	-3.7	5.5	4.0	2.4	-9.2	6.4	1.0	-2.5
SI	-4.1	8.4	2.7	2.1	-6.4	10.0	2.0	-4.9
SK	-2.6	5.7	0.4	1.4	-8.9	11.1	-4.4	4.1
FI	-2.5	2.7	0.8	-0.9	-3.3	4.3	3.8	-2.1
SE	-2.0	5.9	1.5	-0.1	-4.6	6.5	2.2	0.1
IS	-6.9	5.0	9.0	5.6				
NO	-1.3	3.9	3.2	0.1	6.0	2.5	-0.4	0.2
CH	-2.1	5.6	3.0	0.7	-4.0	8.5	6.1	0.8
BA	-3.0	7.4	4.2	2.0	-6.5	9.6	1.0	-3.8
ME	-15.3	13.0	6.4	6.3	-1.2	4.7	-2.8	6.2
MD	-8.3	13.9	-5.0	0.8	-5.5	12.1	-5.1	-3.6
MK	-4.7	4.5	2.8	2.1	-9.5	1.4	-0.2	0.6
GE	-6.3	10.6	11.0	7.8	-3.2	22.3	17.9	-0.9
AL	-3.3	9.0	4.8	3.9	-10.0	22.4	7.3	-11.6
RS	-1.0	7.9	2.6	3.8	-0.7	6.7	2.1	2.8
TR	1.9	11.4	5.5	5.1	1.6	17.5	4.4	1.6
UA	-3.8	3.4	-29.1	5.3	-4.5	1.9	-36.7	6.0
UK	-10.4	8.6	4.8	0.3	2.8	-0.7	-6.4	-1.2

NB: Industrial production: includes NACE Rev. 2 Sections B-D.

Data adjusted by working days.

Growth GDP section: data calculated according to the ESA 2010 methodology.

Employment and unemployment

1.3

	EMPLOYMENT RATE				UNEMPLOYMENT RATE			
	%							
	2021	2022	2023	2024	2021	2022	2023	2024
EU-27	68.3	69.8	70.4	70.8	7.2	6.3	6.1	6.0
BE	65.3	66.5	66.6	66.7	6.3	5.6	5.6	5.8
BG	68.5	70.6	70.7	70.9	5.2	4.2	4.4	4.2
CZ	74.4	75.5	75.1	75.4	2.9	2.3	2.6	2.7
DK	75.5	76.8	76.6	77.2	5.2	4.5	5.2	6.3
DE	75.6	76.8	77.2	77.4	3.7	3.2	3.2	3.5
EE	74.0	76.4	76.2	75.7	6.5	5.9	6.6	7.9
IE	69.8	73.3	74.0	74.5	6.3	4.6	4.4	4.4
EL	57.2	60.7	61.8	63.3	14.9	12.6	11.2	10.2
ES	62.6	64.3	65.3	66.1	15.0	13.1	12.3	11.4
FR	67.2	68.1	68.4	69.0	7.9	7.4	7.4	7.5
HR	63.8	65.3	65.8	68.3	7.5	6.9	6.2	5.1
IT	58.2	60.1	61.5	62.2	9.7	8.2	7.8	6.6
CY	72.0	74.1	75.2	75.5	7.4	6.4	6.0	5.0
LV	69.9	71.3	71.4	71.2	7.9	7.1	6.8	7.3
LT	72.4	73.8	73.2	73.6	7.4	6.2	7.1	7.4
LU	69.4	70.1	70.3	69.7	5.3	4.6	5.2	6.4
HU	73.3	74.5	74.9	75.1	4.0	3.6	4.1	4.5
MT	74.2	76.5	77.8	79.5	3.8	3.5	3.5	3.2
NL	80.1	81.8	82.4	82.3	4.2	3.5	3.5	3.7
AT	72.4	74.0	74.1	74.1	6.3	4.8	5.2	5.2
PL	70.4	71.5	72.4	72.5	3.4	2.9	2.9	2.9
PT	69.6	71.4	72.4	72.8	6.9	6.3	6.7	6.6
RO	61.9	63.1	63.0	63.8	5.6	5.6	5.6	5.4
SI	71.4	73.1	72.5	73.1	4.8	4.0	3.6	3.6
SK	69.4	71.3	72.0	72.4	6.9	6.2	5.9	5.4
FI	72.7	74.3	74.0	72.6	7.8	6.9	7.3	8.6
SE	75.1	77.0	77.4	76.7	9.1	7.6	7.8	8.5
IS	79.8	83.3	83.7	85.4	6.3	3.9	3.7	3.7
NO	76.3	77.7	77.4	77.1	4.5	3.3	3.7	4.1
CH	79.3	79.5	80.7	80.4	5.2	4.2	4.1	4.5
BA	48.8	50.0	51.8	53.6	17.5	15.5	13.3	13.1
ME	49.4	50.3	55.6	56.6	16.6	14.7	13.1	11.4
MD	47.5	48.4	51.8	52.3	3.3	3.2	4.7	4.1
MK	55.1	47.3	45.4	45.8	15.8	14.4	13.1	12.4
GE	46.8	49.9	52.4	55.5	11.6	11.4	11.2	9.8
AL	60.9	65.0	67.7		12.0	11.3	10.1	
RS	61.7	63.9	64.7	66.3	11.5	9.8	9.7	8.9
TR	50.3	52.8	53.8	55.2	12.2	10.7	9.6	8.9
UA	49.3				9.8			
UK	74.7	75.1	75.1	74.8	4.7	3.9	4.1	4.4

NB: Employment rate: persons in employment as a percentage of the population of working age (15- 64 years). Unemployment rate: persons unemployed as a percentage of the active population (15-64 years). BA, ME, GE: share of active population.

Sources: Eurostat [lfsa_ergan, lfsa_urgan], national sources (GE, ME, MD, MK, AL; TR and RS until column break), UNECE (UA), OECD (TR for 2021, UK since 2020). World Bank (BA until 2021)

1.4

Share of gross value added and employment – BY SECTOR

	SHARE OF GROSS VALUE ADDED (%)			SHARE OF EMPLOYMENT (%)		
	AGRI-CULTURE	INDUSTRY	SERVICES	AGRI-CULTURE	INDUSTRY	SERVICES
	2023			2023		
EU-27	1.8	25.8	72.3	4.1	22.1	73.8
BE	0.9	20.5	78.6	1.1	16.8	82.1
BG	2.9	25.8	71.3	14.9	24.6	60.5
CZ	1.9	33.1	65.0	2.9	35.1	62.0
DK	0.9	26.5	72.7	2.0	17.3	80.7
DE	0.9	29.9	69.2	1.2	23.5	75.3
EE	2.2	24.6	73.2	2.6	26.8	70.6
IE	0.9	35.0	64.1	4.0	18.4	77.6
EL	3.8	17.5	78.7	10.3	13.3	76.4
ES	2.7	22.0	75.2	3.6	18.2	78.2
FR	1.9	20.6	77.5	2.3	16.8	80.9
HR	4.0	25.2	70.8	3.9	28.1	68.0
IT	2.1	25.7	72.2	3.6	23.2	73.3
CY	1.3	11.9	86.8	3.3	17.8	78.9
LV	4.5	24.7	70.9	7.9	21.5	70.7
LT	3.0	26.9	70.1	5.0	25.9	69.1
LU	0.2	11.1	88.6	0.8	17.6	81.6
HU	3.4	29.5	67.2	3.4	28.7	67.9
MT	0.0	12.7	87.3	1.3	14.8	84.0
NL	1.9	20.8	77.3	1.9	14.0	84.0
AT	1.4	28.1	70.4	2.9	23.0	74.1
PL	3.1	32.5	64.4	8.1	28.8	63.1
PT	2.4	20.9	76.7	4.9	23.0	72.0
RO	4.2	29.2	66.5	20.9	29.7	49.4
SI	1.7	33.4	64.9	6.2	30.4	63.3
SK	2.3	31.9	65.8	2.8	30.9	66.4
FI	2.6	26.8	70.6	2.9	20.9	76.2
SE	1.1	26.0	72.9	2.5	19.1	78.4
IS	4.8	22.5	72.7	3.1	19.7	77.2
NO	2.3	42.9	54.8	2.3	19.8	77.9
CH	0.6	25.3	74.0	2.3	20.1	77.6
BA	5.5	28.1	66.3	17.6	30.6	51.8
ME	6.8	15.6	77.6	4.5	18.4	77.1
MD	8.2	20.5	71.3	20.9	21.5	57.6
MK	7.6	26.7	65.7	16.7	28.7	54.6
AL	18.6	26.4	55.0	34.9	21.2	43.9
GE	6.9	21.7	71.4	16.5	21.0	62.5
RS	4.4	28.1	67.5	26.2	24.2	49.6
TR	6.9	32.0	61.0	14.8	27.5	57.7
UA	8.6	21.7	69.7	14.1	25.2	60.7
UK	0.8	18.7	80.5	0.9	15.8	83.3

NB: Agriculture covers agriculture, hunting, forestry and fishing.
 Industry includes mining and quarrying, manufacturing, energy, gas and water supply as well as construction.
 All other sectors are included in services.

Population

1.5

AT 1 JANUARY									
	million								%
	1995	2000	2005	2010	2015	2020	2023	2024	change '23/'24
EU-27	425.52	428.47	434.59	441.16	442.91	447.02	447.70	449.31	0.4
BE	10.13	10.24	10.45	10.84	11.24	11.52	11.74	11.82	0.6
BG	8.43	8.19	7.69	7.42	7.03	6.57	6.45	6.45	0.0
CZ	10.33	10.28	10.20	10.46	10.54	10.69	10.83	10.90	0.7
DK	5.22	5.33	5.41	5.53	5.66	5.82	5.93	5.96	0.5
DE	81.54	82.16	82.50	81.80	81.20	83.17	83.12	83.46	0.4
EE	1.45	1.40	1.36	1.33	1.31	1.33	1.37	1.37	0.6
IE	3.60	3.78	4.11	4.55	4.68	5.01	5.27	5.35	1.5
EL	10.54	10.78	10.97	11.12	10.86	10.72	10.41	10.40	-0.1
ES	39.64	40.47	43.30	46.49	46.43	47.32	48.09	48.62	1.1
FR	59.32	60.55	62.77	64.66	66.46	67.47	68.28	68.47	0.3
HR	4.66	4.50	4.31	4.30	4.18	3.93	3.85	3.86	0.3
IT	56.84	56.92	58.04	59.69	60.30	59.64	59.00	58.97	0.0
CY	0.65	0.69	0.73	0.82	0.85	0.89	0.95	0.97	1.8
LV	2.50	2.38	2.25	2.12	1.99	1.91	1.88	1.87	-0.6
LT	3.64	3.51	3.36	3.14	2.93	2.81	2.86	2.89	1.0
LU	0.41	0.43	0.46	0.50	0.56	0.63	0.66	0.67	1.7
HU	10.34	10.22	10.10	10.01	9.82	9.69	9.60	9.58	-0.2
MT	0.38	0.39	0.40	0.41	0.44	0.51	0.54	0.56	3.9
NL	15.42	15.86	16.31	16.57	16.90	17.41	17.81	17.94	0.7
AT	7.94	8.00	8.20	8.35	8.58	8.90	9.10	9.16	0.6
PL	38.58	38.26	38.17	38.02	38.01	37.96	36.75	36.62	-0.4
PT	10.01	10.25	10.49	10.57	10.40	10.38	10.52	10.64	1.2
RO	22.71	22.46	21.38	20.29	19.87	19.33	19.05	19.07	0.1
SI	1.99	1.99	2.00	2.05	2.06	2.10	2.12	2.12	0.3
SK	5.36	5.40	5.37	5.39	5.42	5.46	5.43	5.42	-0.1
FI	5.10	5.17	5.24	5.35	5.47	5.53	5.56	5.60	0.7
SE	8.82	8.86	9.01	9.34	9.75	10.33	10.52	10.55	0.3
IS	0.27	0.28	0.29	0.32	0.33	0.36	0.39	0.38	-1.1
LI	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.9
NO	4.35	4.48	4.61	4.86	5.17	5.37	5.49	5.55	1.1
CH	7.02	7.16	7.42	7.79	8.24	8.61	8.82	8.96	1.7
BA	3.75	4.18	4.09	3.81	3.52	3.32	3.20	3.19	-0.6
ME	0.63	0.60	0.61	0.62	0.62	0.62	0.62	0.62	1.1
MD	4.35	3.64	3.60	3.56	3.56	2.68	2.51	2.42	-3.6
MK	1.96	2.02	2.04	2.05	2.07	2.08	1.83	1.83	-0.2
GE		4.44	4.32	4.44	3.73	3.72	3.74	3.69	-1.1
AL	3.25	3.06	3.02	2.92	2.89	2.85	2.76		
RS	7.63	7.53	7.46	7.31	7.11	6.93	6.64	6.61	-0.5
TR	61.20	66.89	68.01	72.56	77.70	83.15	85.28	85.37	0.1
UA	51.51	49.11	47.10	45.78	42.76	41.73			
UK	57.94	58.79	60.18	62.51	64.85	67.08	67.60	68.27	1.0

NB: CY: from 1975 onwards: government-controlled area only.

FR: as from 1991, it includes the four French overseas departments and as from 2015 it includes Mayotte.

UK: since 2020. situation in June.

1.6a Member States external trade of goods

IMPORTS

YEAR 2023 (VALUE = billion EUR)

EU-27	IMPORTS FROM:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 9	EFTA	CHINA	UNITED STATES	RUSSIA	UNITED KINGDOM	JAPAN
EU-27	6 532.038	4 009.462	2 522.576	157.016	257.903	520.447	347.173	181.052	71.321	50.791
BE	514.327	315.244	199.082	6.410	20.348	33.332	36.128	20.510	11.011	3.845
BG	49.606	29.700	19.906	7.285	0.561	2.688	0.551	0.401	0.196	3.342
CZ	214.529	156.254	58.275	4.444	1.424	25.408	3.665	2.625	2.330	2.747
DK	111.676	76.208	35.468	1.483	6.977	7.392	5.271	2.519	0.508	0.318
DE	1 357.359	884.142	473.217	30.896	73.025	94.761	72.038	30.445	17.114	2.354
EE	21.136	17.995	3.141	0.274	0.310	0.948	0.282	0.192	0.067	0.161
IE	139.723	54.637	85.086	0.974	8.494	8.656	21.906	26.961	2.058	0.029
EL	83.088	42.210	40.878	4.326	1.195	6.901	1.507	0.921	0.373	2.446
ES	434.603	241.154	193.449	12.327	5.931	36.713	24.538	10.294	3.686	3.093
FR	729.004	471.465	257.539	11.322	20.771	42.037	43.827	23.942	5.631	3.399
HR	40.181	30.440	9.741	3.592	0.238	1.304	1.068	0.138	0.072	0.059
IT	591.939	335.717	256.222	17.979	22.183	48.652	25.236	8.755	5.439	4.061
CY	13.069	7.508	5.561	0.353	0.148	0.758	0.135	1.316	0.291	0.016
LV	25.318	20.521	4.797	0.521	0.252	0.869	0.231	0.243	0.024	0.751
LT	44.847	31.575	13.272	0.944	2.381	1.709	2.824	0.828	0.090	0.330
LU	24.322	22.061	2.261	0.229	0.164	0.213	0.606	0.172	0.376	0.003
HU	144.700	100.461	44.240	5.946	0.733	11.095	2.063	1.036	1.690	5.772
MT	7.760	4.866	2.894	0.210	0.085	0.350	0.250	0.412	0.118	0.001
NL	779.236	320.035	459.201	8.073	35.641	118.257	75.807	31.943	13.049	6.279
AT	209.278	158.194	51.084	5.003	10.943	7.107	5.080	2.225	1.577	3.667
PL	342.302	231.048	111.254	10.468	7.728	31.684	10.410	4.240	2.881	2.289
PT	105.148	78.396	26.752	1.618	0.803	5.220	2.252	1.140	0.504	0.334
RO	122.032	89.497	32.535	10.511	1.349	6.758	1.374	1.119	0.408	0.324
SI	66.281	32.311	33.970	6.065	9.363	9.867	0.294	0.234	0.176	0.165
SK	105.034	83.443	21.591	2.627	0.489	4.311	0.658	1.290	0.154	3.765
FI	76.849	54.131	22.718	0.915	6.111	3.691	2.872	1.408	0.329	1.208
SE	178.691	120.248	58.443	2.222	20.256	9.764	6.301	5.742	1.170	0.035

NB: Candidate 9: Bosnia and Herzegovina, Montenegro, Moldova, North Macedonia, Georgia, Albania, Serbia, Türkiye and Ukraine.

EFTA: Iceland, Liechtenstein, Norway, Switzerland.

Member States external trade of goods 1.6b

EXPORTS

YEAR 2023 (VALUE = billion EUR)

	EXPORTS TO:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 9	EFTA	UNITED STATES	UNITED KINGDOM	CHINA	JAPAN	RUSSIA
EU-27	6 670.6	4 113.6	2 557.0	203.8	256.3	503.8	336.2	223.4	64.0	38.1
BE	525.3	351.1	174.2	8.9	11.0	33.3	29.4	8.2	4.8	2.5
BG	44.4	28.1	16.2	6.0	0.4	1.1	0.8	1.0	0.1	0.5
CZ	236.4	192.6	43.8	7.1	4.5	5.6	8.9	2.4	0.9	0.7
DK	120.4	66.5	53.8	2.1	8.7	9.9	6.0	5.3	2.0	0.2
DE	1574.5	859.9	714.6	46.7	77.2	157.7	78.3	97.3	20.2	8.9
EE	18.2	13.4	4.7	0.5	0.8	0.5	0.4	0.3	0.1	0.6
IE	192.7	81.1	111.6	1.0	4.3	51.3	22.3	8.9	3.8	0.5
EL	51.0	29.1	21.9	5.7	0.4	2.1	1.9	0.4	0.3	0.1
ES	390.8	246.5	144.3	10.6	8.2	18.9	22.7	7.5	3.0	0.8
FR	602.2	333.7	268.6	14.7	22.6	43.9	35.9	25.0	6.7	2.0
HR	23.1	15.6	7.5	4.7	0.4	0.6	0.2	0.1	0.1	0.2
IT	625.9	324.1	301.8	22.3	32.8	67.2	26.1	19.2	8.0	4.6
CY	4.6	1.0	3.6	0.0	0.1	0.1	0.2	0.0	0.0	0.0
LV	21.0	13.3	7.6	0.9	0.5	0.5	0.9	0.2	0.1	2.1
LT	39.8	24.2	15.5	2.0	1.3	1.9	1.5	0.1	0.1	2.1
LU	15.9	12.6	3.3	0.3	0.4	0.5	0.4	0.2	0.1	0.0
HU	149.2	117.7	31.5	9.4	1.5	4.4	4.4	1.5	0.8	1.1
MT	3.2	1.7	1.5	0.0	0.1	0.1	0.1	0.0	0.2	0.0
NL	866.0	604.4	261.6	12.8	20.7	40.5	48.3	22.3	5.3	2.9
AT	207.3	143.8	63.5	4.9	11.1	14.7	5.5	5.1	1.8	1.3
PL	352.9	263.4	89.5	18.7	7.3	11.0	17.7	3.1	0.8	3.7
PT	77.3	54.2	23.1	1.1	1.0	5.2	3.6	0.8	0.4	0.1
RO	93.1	67.6	25.5	9.5	1.1	2.1	2.7	0.9	0.8	0.2
SI	67.6	39.7	27.8	5.2	15.2	0.9	0.8	0.4	0.2	1.1
SK	108.7	84.1	24.6	4.0	1.6	4.9	4.7	2.9	0.4	0.4
FI	76.4	43.2	33.1	1.6	3.8	8.5	2.6	3.6	1.2	0.7
SE	182.7	100.5	82.2	2.9	19.3	16.3	9.9	6.7	1.9	0.8

NB: Candidate 9: Bosnia and Herzegovina, Montenegro, Moldova, North Macedonia, Georgia, Albania, Serbia, Türkiye and Ukraine.
EFTA: Iceland, Liechtenstein, Norway, Switzerland.

1.7 Comparison EU-27 – World

DATA FOR 2023

	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
Population million	448.5	334.9	124.5	1410.7	143.8
Population growth % change since previous year	0.4 %	0.5 %	-0.5 %	-0.1 %	-0.3 %
Urban population % of total	75.7	83.3	92.0	64.6	75.3
Area 1 000 km ²	4 225	9 832	378	9 563	17 098
Population density Persons/km ²	106	34	329	148	8
GDP (nominal) billion EUR	17 204	25 637	3 888	16 457	1 869
Real GDP growth %	0.4 %	2.9 %	1.7 %	5.2 %	3.6 %
Relative GDP per capita in PPS (EU-27 = 100)	100	140	84	42	75
Exports of goods billion EUR	2 557	2 045	714	3 179	424
Imports of goods billion EUR	2 523	3 109	762	2 585	303

NB: EU-27: area, population: including French overseas departments.
EU-27: trade: only extra-EU trade.

PART 2

TRANSPORT



PART 2

SUMMARY

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Statistical overview – EU transport 2.1.1

Gross Value Added:

With around EUR 750 billion in Gross Value Added (GVA) at current prices, the transport and storage services sector (including postal and courier activities) accounted for about 4.8 % of total GVA in the EU-27 in 2023 ⁽¹⁾. It should be noted, however, that this figure only includes the GVA of companies whose main activity is the provision of transport (and transport-related) services and that own account transport operations are not included.

Employment:

In 2023, the transport and storage services sector (including postal and courier activities) in the EU-27 employed around 10.7 million persons ⁽²⁾, some 5.4 % of the total workforce ⁽³⁾. Around 52 % of them worked in land transport (road, rail and pipelines), 2.8 % in water transport (sea and inland waterways), 3.5 % in air transport and 28.5 % in warehousing and supporting activities (such as cargo handling, storage and warehousing) and the remaining 13.3 % in postal and courier activities, 22.7 % of the employed persons in the transport sector were women.

Household expenditure:

In 2023, private households in the EU-27 spent EUR 1 147 billion or roughly 12.8 % of their total consumption on transport-related items.

Around 27 % of this sum (around EUR 313 billion) was used to purchase vehicles, 56 % (EUR 646 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 188 billion) was spent for transport services (e.g. bus, train, plane tickets, transport services for goods).

Goods transport:

In 2023, the total goods transport activities in the EU-27 are estimated to amount to 3 433 billion tkm. This figure includes intra-EU air and sea transport but not transport activities between the EU and the rest of the world. Road transport accounted for 52.6 % of this total, rail for 11.5 %, inland waterways for 3.4 % and oil pipelines for 2.6 %. Intra-EU maritime transport was the second most important mode with a share of 29.7 % while intra-EU air transport only accounted for 0.1 % of the total.

Passenger transport:

In 2023, total passenger transport activities in the EU-27 by any motorized means of transport are estimated to amount to 5 932 billion pkm or on average around 13 226 km per person. This figure includes intra-EU air and sea transport but not transport activities between the EU and the rest of the world. Passenger cars accounted for 72 % of this total, powered two-wheelers for 2 %, buses & coaches for 7.2 %, railways for 7.4 % and tram and metro for 1.2 %. Intra-EU air and intra-EU maritime transport accounted for 9.8 % and 0.3 % respectively.

- NB:** ⁽¹⁾ The transport share amounts of 4.4 % of total GVA if postal and courier activities are not included. Estimations based on Eurostat National Account (2023 data).
⁽²⁾ Figures on number of persons employed in transport, total workforce and shares per mode based on Eurostat Labour Force Survey (age 15-64 years).
⁽³⁾ 4.6 % of total employment if postal and courier activities are not included.

2.1.1 Statistical overview – EU transport

Safety:

Road: 20 389 persons were killed in road accidents (fatalities within 30 days) in 2023, 1.3 % less than in 2022 (when 20 654 people lost their lives). In comparison with 2001, the number of road fatalities was lower by about two thirds (-60.3 %).

Rail: 54 passengers lost their lives in 2023; this figure does not include casualties among railway employees or other people run over by trains.

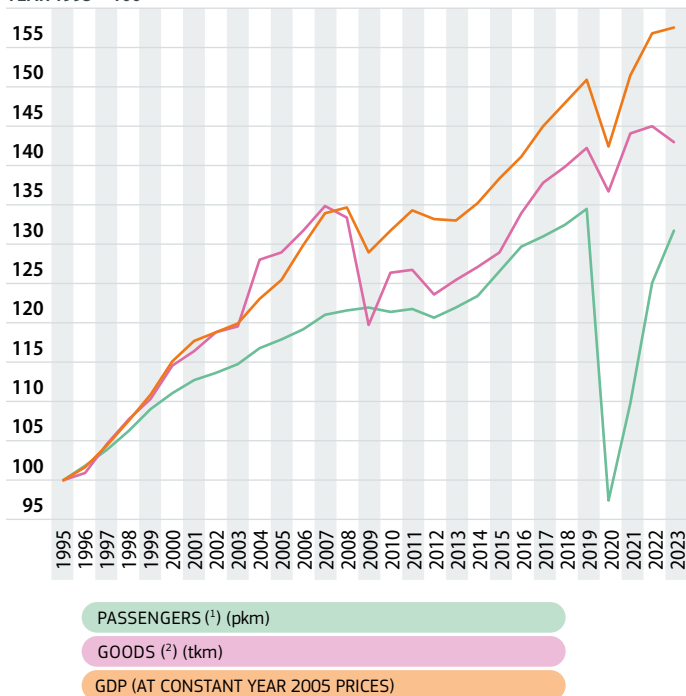
Air: Three people lost their lives in 2024.

Transport growth – EU-27

2.1.2

PASSENGERS, GOODS, GDP 1995–2023

YEAR 1995 = 100



- NB:** ⁽¹⁾ Passenger cars, powered two-wheelers, buses & coaches, tram & metro, railways, intra-EU air, intra-EU sea.
⁽²⁾ Road, rail, inland waterways, oil pipelines, intra-EU air, intra-EU sea.

GDP: at constant year 2005 prices and exchange rates.

ANNUAL GROWTH RATES EU-27

	1995–2023 p.a.	2000–2023 p.a.	2022–2023
GDP at year 2005 prices and exchange rates	1.6 %	1.4 %	0.5 %
Passenger transport (pkm)	1.0 %	0.7 %	5.4 %
Freight transport (tkm)	1.3 %	1.0 %	-1.4 %

2.1.3

Road transport

SPEED LIMITS, BLOOD ALCOHOL LIMITS

	SPEED LIMIT, CARS (IN GENERAL), km/h			Blood alcohol limit (grams of alcohol in 1 litre of blood)
	Built-up areas	Outside built-up areas	Motorways	
BE	50	70 / 90 / 120	120	0.5
BG	50	90	120/140	0.5
CZ	50	90 / 110	130	0.0
DK	50	80	130	0.5
DE	50	100	(130)	0.5
EE	50	90	90	0.2
IE	50	80 / 100	120	0.5
EL	50	90	110 / 130	0.5
ES	50	80 / 90	90 / 120	0.5
FR	50	80 / 90	110 / 130	0.5
HR	50	90	130	0.5
IT	50	90	130	0.5
CY	30 / 50	80	100	0.5
LV	50	90	-	0.5
LT	50	70 / 90	110 / 130	0.4
LU	50	90	130	0.5
HU	50	90	110 / 130	0.0
MT	40 / 50	60 / 80	80	0.5
NL	50	80	100 / 120 / 130	0.5
AT	50	100	130	0.5
PL	50	90 / 100	120 / 140	0.2
PT	50	90	100 / 120	0.5
RO	50	90 / 100	130	0.0
SI	50	90	110 / 130	0.5
SK	50	90	130	0.0
FI	50	80	80 / 120	0.5
SE	50	70	110	0.2
IS	50	80 / 90	-	0.5
NO	50	80	100	0.2
CH	50	80 / 100	100 / 120	0.5
BA	60	100	130	0.3
ME	50	80 / 100	130	0.3
MD	50	90/110		0.3
MK	50	80 / 100	120	0.5
AL	40	80 / 90	110	0.1
RS	60	80 / 100	120	0.5
TR	50	90 / 110	120	0.5
UA	50	90	130	0.0
UK	48	96	112	0.8

NB: Situation as of 18 August 2025, the date of accessing the source: https://europa.eu/your-europe/citizens/travel/driving-abroad/road-rules-and-safety/index_en.htm
IE, CY and MT drive on the left hand side of the road, the other Member States drive on the right hand side (Sweden since 3 September 1967).

The reported speed limits refer to general circumstances. Different speed limits might apply in residential or pedestrian areas, on the basis of weather conditions, the time of the day, the vehicle driven, the season, the visibility or unless otherwise stated by traffic signs. The higher figure shown in the 'outside built-up areas' column generally refers to the speed limit on dual carriageways that are not motorways.

Speed limits: DE: Motorways: no general speed limit, recommended speed limit is 130 km/h (more than half the network has a speed limit of 120 km/h or less).

ES: different speed limits apply on non-urban roads according to the presence of hard shoulders, or if the vehicle is equipped with a trailer or dangerous goods.

Blood alcohol limits: in many countries, special (more restrictive) rules apply to novice (i.e. new, inexperienced) and professional drivers.

Road transport

MAXIMUM GROSS VEHICLE WEIGHT

2.1.4

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		ARTICULATED VEHICLES
			2 axles	3 axles	4 axles	5 axles and more	5 axles and more
BE ⁽¹⁾	10	12	19	26	39	44	44
BG	10	11.5	18	26 ⁽²⁾	36	40	40
CZ	10	11.5	18	26 ⁽²⁾	32	48	48
DK ⁽³⁾	10	11.5	18	24 / 26	38	44 / 50 / 56	44 / 50 / 56
DE	10	11.5	18 / 19	26 / 27	36	40 / 44	40 / 44
EE	10	11.5	18	26 ⁽²⁾	35 / 36	40 / 44	40 / 44
IE	10	10.5 / 11.5	18	26	36	42 ⁽²⁾	40 / 44 / 46
EL	7 / 10	13	19	26	33 / 38 / 40	40 / 42	40 / 42 / 44
ES	10	11.5	18	25 / 26	36 / 38	40	40 / 42 / 44
FR	12 / 13	12 / 13	19	26	32 / 38	40 / 44	40 / 44
HR	10	11.5	18	25 / 26	36	40	40 / 44
IT	12	12	18	26 ⁽²⁾	40	44	44
CY	10	11.5	18	25	36	40	40 / 44
LV	10	11.5	18	25 / 26	36	40	40 / 42 / 44
LT	10	11.5	18	25 / 26 / 27	36	40 / 42	40 / 44
LU	10	11.5 / 12	19	26	44	44	44
HU	10 ⁽⁴⁾	11.5 ⁽⁴⁾	18 / 20	25 / 26	36 / 38	40	40 / 42 / 44
MT	10	11.5	18	25	36	40	40 / 44
NL ⁽³⁾	10	11.5	21.5	21.5 - 30.5	40	50	50
AT	10	11.5	18	26	36	40 / 44	40 / 44
PL	10	11.5	18	26 ⁽²⁾	36	40	40
PT ⁽³⁾	10 ⁽⁴⁾	12.0	19	26	37 / 38	44 ⁽⁴⁾	44 / 60
RO	10	11.5	18	25 / 26	36	40	40 / 42 / 44
SI	10	11.5	18	25 / 26	36	40	40 / 44
SK	10	11.5	18	26 ⁽²⁾	40	40	40
FI ⁽⁵⁾	10	11.5	18	28 ⁽²⁾	36	44 ⁽⁶⁾	44 ⁽⁶⁾
SE	10	11.5	18	25 / 28	38	40 ⁽⁷⁾	44
IS	10	11.5	18	26 ⁽²⁾	36	40	44
LI	10	11.5	18	26 ⁽²⁾	36	40	40
NO ⁽³⁾	10	11.5	19	26 ⁽⁴⁾	39	46 - 50	46 - 50
CH	10	11.5	18	26 ⁽²⁾	36	40	40
BA	10	11.5	18	25 / 26	36 / 38	40 / 42	42 / 44
ME	10	11.5	18	26 ⁽²⁾	36	40	40 / 44
MD	10	11.5	18	25	36	40	40
MK	10	11.5	18	25	35 / 36	40	40
AL	10	10 / 11.5	18	24 / 26 ⁽²⁾	36	40	44
RS	10	11.5	18 ⁽⁴⁾	25 / 26 ⁽⁴⁾	36 / 38	40	40 / 42 / 44
TR	10	11.5	18	25 / 26	32 / 36 / 38	40	40 / 44
UA	11	11.0	16	22	38	40	40
UK	10	11.5	18	26	36	40 / 44	40 / 44

NB: An articulated vehicle consists of a road tractor coupled to a semi-trailer. A road train is a goods road motor vehicle coupled to one or more trailers.

The permissible maximum weight varies according to different conditions: distance between the axles, number of driven axles, type of suspension, single or double mounted tyres, the vehicle is performing national or international traffic, performing combined transport operations, type of road, type of fuel or type of goods. For a more complete country overview please consult the International Transport Forum website.

- (1) Differences between regions. For a complete overview please consult the International Transport Forum website.
- (2) Only for air suspension or similar, twin tyres or ABS (Anti-lock Braking System).
- (3) Under specific conditions EMS (European Modular System) combinations may have a maximum length of 25.25 m and maximum mass of 60 t.
- (4) Increased values are applicable for certain type of transport.
- (5) For vehicles registered in an EEA member country.
- (6) Five-axle: 44 t; six-axle: 56 t; seven-axle: 60 t; eight-axle: 64-68 t (restrictions for ADR), 69-76 t (not for ADR).
- (7) 74 t on some roads.

2.1.5

Employment by mode of transport (*) 2022 – in 1000

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	10 378.1	3 443.7	1 778.0	533.4	31.3	42.0	150.0	281.0	2 518.3	1 600.4
BE	232.4	65.1	20.1	30.6	1.0	0.8	1.3	6.9	67.8	38.9
BG	153.3	74.1	26.5	4.6	0.3	0.7	0.6	2.2	23.0	21.1
CZ	291.4	130.3	43.4	26.2	0.1	0.5	0.1	2.0	58.1	30.7
DK	148.0	33.6	25.2	6.1	0.0	0.3	16.5	4.3	33.7	28.3
DE	2 289.7	462.7	440.9	59.0	4.3	10.3	17.8	63.2	718.4	513.1
EE	39.6	16.8	3.5	0.7	0.0	0.4	2.2	0.4	11.7	4.0
IE	108.2	25.3	30.1	2.2	0.1	0.0	0.9	7.9	20.8	20.9
EL	174.9	43.0	49.5	1.25	0.1	0.1	7.6	3.9	46.9	22.6
ES	944.0	349.0	185.5	12.0	1.0	0.5	8.5	34.6	240.1	112.8
FR	1 494.0	437.7	261.1	207.7	8.7	5.1	17.1	63.0	255.8	237.7
HR	76.7	28.8	12.3	1.8	0.7	0.1	5.2	1.2	14.8	11.9
IT	1 167.7	386.3	161.9	37.2	2.2	3.2	39.3	14.3	384.3	138.9
CY	21.0	2.2	3.6	0.0	0.0	0.0	0.3	0.2	11.4	3.3
LV	65.8	26.0	5.6	6.5	0.2	0.2	0.4	2.4	18.1	6.3
LT	174.9	111.0	19.2	6.5	0.1	0.2	1.1	0.8	23.8	12.2
LU	23.9	7.9	2.7	3.0	0.0	0.5	0.2	3.5	3.8	2.3
HU	202.7	84.3	29.0	3.2	0.0	0.8	0.0	1.6	37.8	45.8
MT	16.3	1.3	4.9	0.0	0.0	0.0	0.7	2.5	5.1	1.6
NL	441.1	135.4	57.8	15.7	0.1	12.3	7.8	24.2	119.2	68.6
AT	221.0	66.0	54.1	20.5	0.4	0.7	0.0	7.1	43.7	28.5
PL	912.3	513.3	84.0	45.2	6.0	0.9	2.6	8.1	157.5	94.9
PT	199.5	78.6	47.4	0.7	0.1	0.2	2.3	11.9	35.2	23.2
RO	426.2	169.3	96.3	22.7	5.5	2.5	0.5	3.7	72.9	52.9
SI	55.2	29.2	5.2	1.1	0.3	0.1	0.1	0.3	10.8	8.0
SK	117.2	49.9	14.4	6.1	0.0	0.4	0.0	0.5	28.0	17.8
FI	126.7	40.4	25.4	4.5	0.1	0.2	7.3	5.4	24.1	19.3
SE	254.6	76.0	68.6	8.5	0.0	1.2	9.7	4.7	51.4	34.6

NB: (*) Data refer to transportation and storage activities (including postal and courier services, removal services). Data are based on Structural Business Statistics and therefore total transport employment differs from value on Overview 2.1.1. The values above in italics are not from ESTAT or other official source, but are merely indicative estimates made by DG MOVE.

(**) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

Number of enterprises by mode of transport (*) 2022

2.1.6

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1420 297	586 850	448 813	1 014	200	9 912	10 896	6 275	158 914	197 424
BE	22 856	10 453	4 357	41	37	326	176	331	4 093	3 042
BG	22 579	13 603	4 907	12	2	36	55	76	2 812	1 076
CZ	46 779	32 274	8 481	55	2	96	1	45	5 457	368
DK	12 278	4 541	4 267	13	7	21	298	95	1 618	1 418
DE	100 877	38 007	26 608	196	29	858	529	628	19 879	14 144
EE	6 968	3 568	1 119	3	0	5	54	29	1 760	430
IE	25 121	4 864	14 755	4	2	40	202	107	2 048	3 099
EL	64 258	16 610	33 856	10	10	50	2 696	71	6 399	4 556
ES	221 402	106 386	63 682	77	23	100	885	245	17 248	32 756
FR	187 755	38 663	77 152	31	33	926	1 158	819	8 384	60 589
HR	13 545	6 273	4 079	18	2	35	1 266	21	1 624	227
IT	116 864	58 443	30 842	29	11	1 198	891	178	21 659	3 613
CY	3 904	878	1 235	0	0	0	85	3	867	836
LV	9 029	3 121	1 609	10	1	21	51	29	2 130	2 057
LT	32 900	7 116	12 517	4	1	51	13	251	2 975	9 972
LU	1 087	426	248	1	0	23	2	23	240	124
HU	46 932	16 551	9 473	41	4	153	12	127	5 379	15 192
MT	3 369	407	1 819	3	0	12	155	49	755	169
NL	65 359	21 695	13 226	75	12	4 442	780	427	13 081	11 621
AT	15 843	7 265	5 849	31	3	98	0	215	1 552	830
PL	170 122	103 149	39 421	162	9	405	210	1 542	18 380	6 844
PT	42 968	8 254	23 327	7	1	54	328	103	2 938	7 956
RO	97 646	42 959	40 964	103	3	344	70	103	4 609	8 491
SI	9 372	5 668	976	10	2	46	40	167	1 253	1 210
SK	26 694	11 757	4 919	22	3	65	1	166	5 957	3 804
FI	23 695	9 784	8 781	13	3	124	363	135	2 701	1 791
SE	30 095	14 135	10 344	43	0	383	575	290	3 116	1 209

NB: (*) Data refer to transportation and storage activities (including postal and courier services, removal services). The values above in italics are not from ESTAT or other official source, but are merely indicative estimates made by DG MOVE.

(**) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

2.1.7 Turnover by mode of transport (*)

2022 – MILLION EUR

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1893090	460939	133215	79753	17518	11309	239811	141225	660000	149319
BE	66 453	15 532	1 622	4 520	1 347	306	2 266	5 168	29 166	6 525
BG	12 243	5 902	534	434	241	67	90	578	3 692	705
CZ	33 050	12 077	1 447	2 165	8	57	4	1 058	14 170	2 064
DK	116 129	7 918	3 977	1 544	2	783	77 539	2 322	19 532	2 512
DE	461 382	59 772	38 161	14 774	6 344	2 894	65 329	33 475	173 210	67 425
EE	6 575	1 794	187	30	0	10	100	647	3 526	281
IE	26 509	5 341	5 235	136	260	70	1 618	3 797	5 879	4 173
EL	19 141	3 862	1 558	120	300	92	2 971	1 563	7 564	1 112
ES	141 327	42 922	10 693	2 365	1 328	38	2 858	13 771	60 584	6 769
FR	285 921	62 335	23 557	28 239	1 105	812	56 134	23 514	74 479	15 746
HR	6 424	2 523	419	218	81	4	637	304	1 882	356
IT	200 711	62 181	12 894	7 961	2 698	498	11 835	9 834	83 122	9 687
CY	4 784	261	181	0	0	0	96	81	4 058	107
LV	6 812	2 062	313	79	2	10	75	444	3 188	639
LT	18 683	11 225	426	277	208	8	166	353	5 672	349
LU	10 161	1 753	171	302	0	99	19	3 353	3 572	892
HU	21 846	7 633	1 029	378	231	100	9	3 685	7 434	1 347
MT	5 316	157	216	0	0	2	343	3 609	902	86
NL	133 646	33 763	4 956	2 861	195	4 563	9 700	12 516	55 332	9 758
AT	55 058	11 427	5 169	5 135	487	146	0	4 112	24 592	3 990
PL	97 505	56 123	3 647	2 976	1 237	68	1 325	4 120	23 355	4 653
PT	29 026	7 900	1 925	170	25	92	629	6 316	10 623	1 346
RO	28 653	15 154	1 949	1 226	590	258	121	571	7 092	1 692
SI	8 527	4 124	277	264	74	2	52	76	3 171	484
SK	13 613	5 428	363	1 315	349	61	1	231	4 946	919
FI	25 119	7 224	2 204	514	405	26	2 263	2 567	8 166	1 750
SE	58 476	14 546	10 103	1 748	0	244	3 629	3 160	21 093	3 953

NB: (*) Data refer to transportation and storage activities (including postal and courier services, removal services). The values above in italics are not from ESTAT or other official source, but are merely indicative estimates made by DG MOVE.

(**) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

Final consumption of households for transport

2.1.8

BY TYPE OF EXPENDITURE – 2023

	FINAL CONSUMPTION OF HOUSEHOLDS FOR TRANSPORT	of which:			TRANSPORT AS A % OF TOTAL FINAL CONSUMPTION OF HOUSEHOLDS	EXPENDITURE PER HEAD ON TRANSPORT
		purchase of personal transport equipment	operation of personal transport equipment	purchased transport services		
		million EUR			%	EUR
EU-27	1 146 612	313 043	645 626	187 943	12.8	2 540
BE	29 982	6 750	19 409	3 823	10.4	2 550
BG	7 156	949	4 187	2 019	12.7	1 110
CZ	12 896	4 669	6 509	1 718	8.5	1 190
DK	19 308	7 363	10 126	1 819	11.8	3 250
DE	304 786	96 235	163 115	45 436	14.6	3 610
EE	2 027	393	1 213	421	10.1	1 480
IE	13 245	4 438	5 740	3 067	9.7	2 500
EL	22 729	6 090	7 375	9 265	13.4	2 150
ES	100 072	26 854	56 899	16 319	11.6	2 070
FR	191 041	40 880	113 359	36 802	12.8	2 790
HR	4 652	953	2 759	940	8.2	1 180
IT	161 546	39 792	99 741	22 014	12.9	2 740
CY	2 511	597	1 368	546	12.5	2 620
LV	2 744	572	1 633	539	12.0	1 460
LT	6 483	1 663	4 049	771	15.6	2 260
LU	3 917	931	2 679	308	14.6	5 870
HU	11 534	2 495	7 849	1 190	11.9	1 200
MT	1 095	270	482	343	10.2	1 980
NL	58 822	15 746	31 406	11 670	12.7	3 290
AT	28 241	5 615	17 096	5 530	11.6	3 090
PL	55 094	18 404	30 714	5 976	12.9	1 460
PT	20 182	6 987	10 672	2 523	12.1	1 930
RO	19 526	5 421	9 044	5 060	11.1	1 020
SI	5 542	1 790	3 469	283	16.4	2 610
SK	3 742	932	2 126	685	5.5	690
FI	15 011	3 906	8 585	2 520	11.1	2 690
SE	30 096	8 440	16 556	5 100	12.8	2 840

NB: BE, DE, EL, FR, HR, CY, HU provisional data.

'Transport services' includes both passenger and goods transport services.

Source: Eurostat [nama_10_cp_18]. Because of the derogation in submitting data according to the new COICOP 2018 classification, the data set nama_10_co3_p3 was used for EL, HR, LU, PL, SK, FI (2023 data) and PT, RO (2022 data)

2.1.9 EU-27 Evolution of consumer prices for passenger transport

HARMONISED INDEX OF CONSUMER PRICES

YEAR 2015 = 100	ALL ITEMS	TRANSPORT	of which:		
			PURCHASE OF VEHICLES	Motor cars	Motorcycles, bicycles and animal drawn vehicles
2024	129.7	128.5	123.2	123.7	119.3
2023	126.4	127.4	122.4	122.7	119.7
2022	118.8	124.3	116.3	116.3	116.1
2021	108.8	110.9	107.8	107.7	109.1
2020	105.8	103.8	104.6	104.5	105.0
2015	100.0	100.0	100.0	100.0	100.0
2010	93.0	93.6	97.2	97.3	95.7
2005	83.5	83.1	95.9	96.2	92.4

YEAR 2015 = 100	OPERATION OF PERSONAL TRANSPORT EQUIPMENT	of which:			
		Spare parts and accessories for personal transport equipment	Fuels and lubricants for personal transport equipment	Maintenance and repair of personal transport equipment	Other services in respect of personal transport equipment
2024	133.4	122.4	133.8	139.2	125.1
2023	132.5	119.6	137.6	132.2	121.5
2022	131.1	111.0	142.8	122.5	117.2
2021	113.6	104.1	114.9	115.2	110.8
2020	103.3	101.9	98.0	111.8	107.0
2015	100.0	100.0	100.0	100.0	100.0
2010	93.7	95.0	96.7	89.2	92.8
2005	79.8	87.5	81.8	74.6	82.6

YEAR 2015 = 100	TRANSPORT SERVICES	of which:					
		Passenger transport by railway	Passenger transport by road	Passenger transport by air	Passenger transport by sea and inland waterway	Combined passenger transport	Other purchased transport services
2024	118.8	111.1	121.1	148.3	129.1	94.3	127.9
2023	116.9	108.3	118.0	144.6	124.4	98.0	123.3
2022	111.3	103.8	113.7	131.9	119.6	98.8	115.4
2021	105.9	103.3	107.3	106.0	108.9	108.4	108.6
2020	104.3	101.6	105.9	102.5	106.0	107.2	106.8
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	87.2	88.8	87.8	88.0	81.8	84.3	96.1
2005	74.3	73.1	72.5	81.0	68.8	70.5	88.3

EU-27 External trade by mode of transport – 2024

PARTNER: EXTRA-EU-27

VALUE (BILLION EUR)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	1 125.3	43.5 %	1 249.9	51.4 %	2 375.2	47.3 %
Road	620.2	24.0 %	497.6	20.4 %	1 117.8	22.3 %
Rail	34.4	1.3 %	35.7	1.5 %	70.0	1.4 %
Inland waterway	6.2	0.2 %	3.0	0.1 %	9.2	0.2 %
Pipeline	12.3	0.5 %	108.8	4.5 %	121.2	2.4 %
Air	699.5	27.1 %	444.8	18.3 %	1 144.2	22.8 %
Self propulsion	68.0	2.6 %	26.5	1.1 %	94.5	1.9 %
Post	1.4	0.1 %	2.3	0.1 %	3.7	0.1 %
Unknown	16.8	0.7 %	65.4	2.7 %	82.2	1.6 %
TOTAL	2 584.1	100.0 %	2 434.0	100.0 %	5 018.1	100.0 %

WEIGHT (MILLION TONNES)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	487.8	73.8 %	1 119.1	75.5 %	1 606.9	75.0 %
Road	107.9	16.3 %	84.8	5.7 %	192.7	9.0 %
Rail	18.9	2.9 %	45.5	3.1 %	64.4	3.0 %
Inland waterway	11.5	1.7 %	6.2	0.4 %	17.7	0.8 %
Pipeline	7.2	1.1 %	185.3	12.5 %	192.5	9.0 %
Air	18.4	2.8 %	3.3	0.2 %	21.7	1.0 %
Self propulsion	1.1	0.2 %	0.6	0.0 %	1.7	0.1 %
Post	0.0	0.0 %	3.1	0.2 %	3.1	0.1 %
Unknown	8.3	1.3 %	33.7	2.3 %	42.0	2.0 %
TOTAL	661.1	100.0 %	1 481.7	100.0 %	2 142.9	100.0 %

2.1.11 Environmental taxes & transport

ENERGY TAXES AS % OF GDP

(TRANSPORT FUEL TAXES) (*)

	%											RANK- ING IN 2023 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	2020	2021	2022	2023	
EU-27	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	0.9	0.9	
BE	1.3	1.2	1.1	1.2	1.2	1.2	1.2	1.0	1.1	0.8	0.9	17
BG		2.4	2.4	2.1	2.1	1.9	1.9	1.8	1.7	1.3	1.3	5
CZ	2.2	1.9	1.7	1.7	1.6	1.6	1.5	1.3	1.3	1.1	1.1	11
DK	1.2	1.0	0.8	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.5	24
DE	1.5	1.4	1.2	1.1	1.1	1.1	1.0	1.0	0.9	0.7	0.8	22
EE	1.8	2.1	2.0	2.2	2.1	2.0	2.2	1.4	1.5	1.3	1.2	7
IE	1.2	1.3	0.8	0.9	0.7	0.7	0.6	0.5	0.5	0.4	0.4	27
EL	1.1	1.7	1.8	1.8	1.8	1.9	1.8	1.6	1.6	1.5	1.5	2
ES	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	0.9	0.9	19
FR	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.2	1.2	1.2	1.1	12
HR	2.2	1.8	2.2	2.2	2.2	2.1	2.1	2.0	1.4	1.3	1.2	9
IT	1.5	1.4	1.6	1.6	1.6	1.5	1.5	1.4	1.4	0.9	1.2	6
CY	1.5	1.6	2.0	2.0	1.9	1.8	1.5	1.4	1.3	1.0	0.9	18
LV	2.1	2.0	1.8	1.9	1.9	1.9	1.8	1.9	1.8	1.6	1.5	3
LT	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.3	1.2	8
LU	2.8	2.1	1.6	1.5	1.5	1.5	1.6	1.2	1.0	0.8	0.8	21
HU	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.4	1.3	1.0	0.9	15
MT	1.2	1.2	1.1	1.1	1.1	1.0	1.0	0.8	0.7	0.5	0.5	25
NL	1.2	1.2	1.1	1.1	1.1	1.1	1.0	0.9	0.9	0.7	0.7	23
AT	1.3	1.2	1.2	1.2	1.2	1.1	1.1	0.9	1.0	0.9	0.8	20
PL	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.7	1.7	1.4	1.4	4
PT	1.9	1.7	1.6	1.7	1.7	1.6	1.6	1.5	1.5	1.0	1.1	10
RO		1.5	1.8	1.8	1.5	1.4	1.4	1.2	1.2	1.1	0.9	16
SI	2.1	2.5	2.6	2.6	2.5	2.3	2.2	1.8	1.8	1.6	1.6	1
SK	2.1	1.5	1.4	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.0	13
FI	1.4	1.3	1.2	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	14
SE	1.3	1.1	1.0	1.0	0.9	0.9	0.7	0.7	0.7	0.5	0.5	26
IS												
NO	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4	
CH												

NB: (*) Transport fuel taxes include those taxes which are levied on the transport use of fuels/energy products.
EU totals are weighted averages.

Environmental taxes & transport 2.1.12

ENVIRONMENTAL TAXES AS % OF GDP

(TRANSPORT EXCL. FUEL) (*)

	%											RANK- ING IN 2023 (EU-27)
	1995	2000	2005	2010	2015	2018	2019	2020	2021	2022	2023	
EU-27			0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	
BE	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	7
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	18
CZ	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	27
DK	2.1	1.8	2.1	1.4	1.5	1.5	1.4	1.3	1.1	0.9	0.8	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	17
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	26
IE	1.3	1.4	1.2	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.4	13
EL	0.7	0.8	0.9	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	4
ES	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	20
FR	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	19
HR			1.1	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	6
IT	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	9
CY	2.3	2.0	1.4	0.9	0.6	0.6	0.5	0.5	0.4	0.4	0.4	12
LV	0.0	0.3	0.3	0.3	0.5	0.4	0.4	0.4	0.4	0.3	0.3	15
LT	0.7	0.7	0.5	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24
LU	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	25
HU	0.2	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	16
MT	2.3	2.2	1.7	1.3	1.1	1.0	0.9	0.9	0.7	0.6	0.6	5
NL	1.3	1.4	1.2	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	2
AT	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	3
PL	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	22
PT	0.9	1.1	0.9	0.6	0.6	0.7	0.7	0.6	0.5	0.5	0.5	10
RO	0.0	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.1	23
SI	1.0	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.3	14
SK	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	21
FI	0.8	1.1	1.1	0.9	0.9	1.0	0.9	0.8	0.7	0.6	0.5	8
SE	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	11
IS	1.1	1.7	1.6	0.6	0.6	0.7	0.5	0.5	0.4	0.5	0.6	
NO	1.4	1.2	1.4	1.2	1.0	0.8	0.7	0.6	0.5	0.3	0.4	
CH												

NB: (*) Transport taxes (excl. Fuel) mainly include taxes related to the ownership and use of motor vehicles.
EU totals are weighted averages.

2.1.13 Environmental taxes & transport

AS % OF TOTAL TAXATION

(FUEL & OTHER TAXES) (*)

	%											RANK- ING IN 2023 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	2020	2021	2022	2023	
EU-27	4.7	4.4	4.4	4.3	4.3	4.2	3.8	3.7	3.2	3.3		
BE	4.8	4.4	4.0	4.2	4.1	4.2	4.2	3.8	3.9	3.2	3.5	17
BG	10.3	9.3	8.4	8.1	7.4	7.2	6.9	6.4	5.0	5.1		4
CZ	6.8	6.1	5.3	5.3	4.9	4.7	4.5	4.1	3.9	3.3	3.2	21
DK	6.9	5.5	5.1	5.2	5.1	5.1	4.7	4.4	3.9	3.4	3.1	22
DE	5.2	4.6	3.8	3.7	3.6	3.4	3.3	3.2	2.9	2.5	2.7	25
EE	6.3	6.4	6.2	6.8	6.7	6.2	6.9	4.5	4.6	4.1	3.8	13
IE	7.8	8.0	6.9	6.7	6.2	5.8	5.6	5.0	4.4	3.6	3.5	19
EL	6.1	7.3	7.0	6.7	6.7	6.7	6.7	6.3	6.2	5.6	5.7	1
ES	4.8	4.4	4.0	4.1	4.0	3.8	3.8	3.3	3.3	3.2	3.0	23
FR	3.8	3.4	3.1	3.2	3.3	3.4	3.4	3.1	3.1	3.0	2.9	24
HR	8.9	7.1	8.1	8.2	8.1	7.7	7.6	7.2	5.7	5.1	4.7	5
IT	5.4	4.6	5.1	5.2	5.2	5.1	5.0	4.6	4.6	3.5	4.2	8
CY	9.2	7.9	8.0	8.0	7.6	7.1	5.9	5.7	5.2	4.0	3.5	18
LV	8.6	8.2	7.3	7.4	7.1	7.3	6.8	7.1	6.8	5.8	5.5	2
LT	7.4	6.2	5.9	6.1	6.1	6.1	5.8	5.8	5.3	4.4	4.1	10
LU	7.7	6.2	4.9	4.5	4.3	4.1	4.2	3.4	2.9	2.3	2.2	26
HU	6.3	6.1	5.3	5.3	5.2	5.1	4.9	4.8	4.7	3.5	3.6	16
MT	9.0	8.1	7.3	6.7	6.6	6.5	6.5	5.8	4.8	4.1	4.2	9
NL	6.8	6.6	5.7	5.4	5.4	5.4	5.2	4.6	4.4	3.8	3.8	12
AT	5.2	4.9	4.7	4.8	4.9	4.6	4.6	4.1	4.1	3.8	3.7	14
PL	6.7	6.8	6.7	6.9	6.6	6.4	6.1	5.4	5.3	4.7	4.4	7
PT	9.0	7.5	6.4	7.0	6.9	6.7	6.5	5.9	5.8	4.3	4.5	6
RO	7.2	7.2	7.6	6.4	6.1	6.1	5.3	5.3	4.5	4.1		11
SI	6.8	7.6	7.9	7.9	7.6	7.1	6.9	5.8	5.5	5.3	5.3	3
SK	7.2	6.1	5.0	5.1	5.0	4.8	4.6	4.2	4.0	3.8	3.5	20
FI	5.9	5.4	4.8	5.0	5.0	5.0	4.6	4.6	4.1	3.7	3.6	15
SE	3.6	3.7	3.3	3.2	3.1	3.0	2.8	2.7	2.5	2.2	2.1	27
IS												
NO	5.2	4.6	4.2	4.2	3.9	3.6	3.3	3.1	2.3	1.7	2.0	
CH												

NB: (*) Including taxes on fuel and other transport taxes.
EU totals are weighted averages.

Comparison EU-27 – World

INFRASTRUCTURE AND VEHICLES

2.1.14

TRANSPORT INFRASTRUCTURE					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
1 000 km	2023	2023	2022	2023	2023
Road network (paved)	4340	6 758 ⁽¹⁾	1 066	5 270	1 234
Motorway network	77	108.5	9.3 ⁽²⁾	183.6	65 ⁽³⁾
Railway network	201	147.8 ⁽⁴⁾	18.9	158.7	87
Electrified rail lines	115		11.2	119.4	45
Navigable inland waterways	50	40.2		128.2	102
Oil pipelines	32	368.1		147.6 ⁽⁵⁾	258 ⁽⁵⁾

VEHICLE STOCK						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2023	2023	2022	2023	2023
Passenger cars stock	million	256.1	259 ⁽⁶⁾	62 ⁽⁷⁾	186.7	51.5
Motorisation	cars / 1 000 persons	570	773	498	132	358
Commercial freight vehicles	million	35	14.9	14.3 ⁽⁸⁾	33.6	6.8

TRANSPORT SAFETY						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2023	2023	2023	2020	2023
Road fatalities	number	20 389	40 990	3 263	61 703	14 500
	per million inhabitants	45	122	26	44	101

- NB:** ⁽¹⁾ United States: public roads.
⁽²⁾ Japan: national expressways.
⁽³⁾ Russia: roads of federal importance.
⁽⁴⁾ United States: 2022 value.
⁽⁵⁾ China. Russia: both oil and gas pipelines.
⁽⁶⁾ United States: light duty vehicles, short wheel and long wheel base.
⁽⁷⁾ Japan: ordinary, small and light four-wheeled vehicles.
⁽⁸⁾ Japan: including 8.4 million light motor vehicles.

2.1.15 Comparison EU-27 – World

PASSENGER AND FREIGHT TRANSPORT

PASSENGER TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion pkm	2023	2023	2022	2023	2023
Passenger car	4 272.4	7 045.7 ⁽¹⁾		474.0 ⁽²⁾	
Bus + trolley bus + coach	427.0	603.9	44.2		115.9
Railway	437.3	27.6	352.9	1 472.9	138.0
Tram + metro	73.2	14.1	⁽³⁾		44.7
Waterborne	20.7	0.7	1.8 ⁽⁴⁾	5.4	0.7
Air (domestic/intra-EU-27)	582.0	1 244.8	86.4	1 030.9	264.7

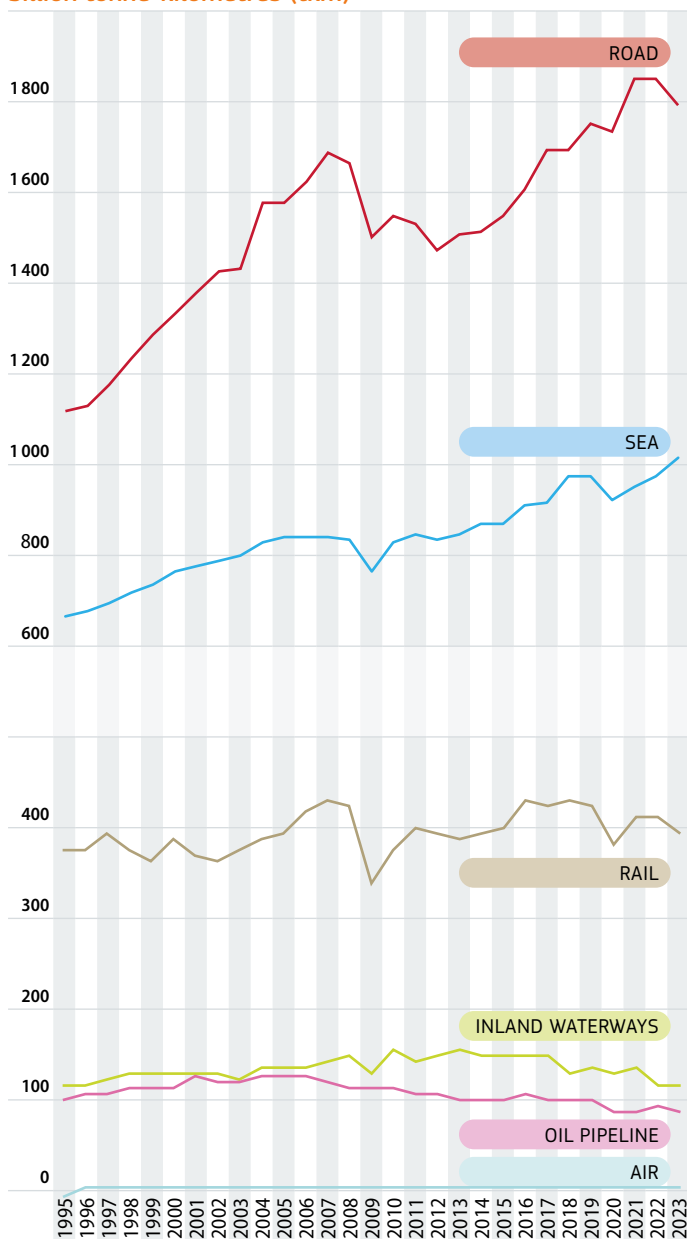
FREIGHT TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion tkm	2023	2023	2022	2023	2023
Road	1 807.4	3 412.2	226.9	7 395.0	362.0
Rail	395.8	2 180.2 ⁽⁵⁾	18.0	3 646.0	2 638.0
Inland waterways	116.4	384.7			57.0
Oil pipeline	90.5	1 579.6		709.9 ⁽⁶⁾	2 423.0
Sea (domestic/intra-EU-27)	1 020.8	240.7 ⁽⁷⁾	162.7	12 995.1 ⁽⁸⁾	69.0 ⁽⁹⁾

- NB:** ⁽¹⁾ United States: including light trucks / vans.
⁽²⁾ China: passenger-kilometers of highways including buses and coaches.
⁽³⁾ Japan: included in railway pkm.
⁽⁴⁾ Japan: 2021 value.
⁽⁵⁾ United States: class I rail.
⁽⁶⁾ China: both oil and gas pipelines.
⁽⁷⁾ United States: refers to coastal shipping.
⁽⁸⁾ China: both coastwise and inland waterway transport.
⁽⁹⁾ Russia: coastal shipping.

EU-27 Performance for freight transport 1995–2023 – BY MODE

2.2.1

billion tonne-kilometres (tkm)



2.2.2

EU-27 Performance

BY MODE

FREIGHT TRANSPORT

	billion tkm						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR	TOTAL
1995	1 127.2	374.8	121.9	103.8	671.4	1.4	2 400
2000	1 343.9	387.9	133.7	115.7	769.8	1.7	2 753
2005	1 588.2	394.6	138.6	126.8	844.5	1.8	3 094
2010	1 558.3	375.0	155.4	111.0	831.8	1.8	3 033
2011	1 541.6	401.0	141.8	108.3	850.1	1.8	3 045
2012	1 481.7	392.5	149.8	105.0	838.4	1.8	2 969
2013	1 516.4	388.7	152.6	102.1	851.0	1.8	3 013
2014	1 527.4	395.5	150.7	101.1	875.1	2.1	3 052
2015	1 562.0	402.8	147.4	104.1	875.8	2.1	3 094
2016	1 619.7	427.2	146.6	104.7	913.3	2.1	3 214
2017	1 707.3	426.1	147.2	104.0	922.0	2.1	3 309
2018	1 707.5	432.1	131.3	104.1	978.7	2.2	3 356
2019	1 764.8	424.5	139.7	101.0	980.1	2.3	3 412
2020	1 745.3	383.7	131.7	91.7	928.7	2.0	3 283
2021	1 862.2	414.9	136.1	88.7	956.0	2.4	3 460
2022	1 866.3	413.4	122.1	93.7	982.6	2.3	3 480
2023	1 807.4	395.8	116.4	90.5	1 020.8	2.2	3 433
1995–2023 per year	60.4%	5.6%	-4.5%	-12.8%	52.1%	54.1%	43.0%
2000–2022 per year	1.7%	0.2%	-0.2%	-0.5%	1.5%	1.6%	1.3%
2000–2022 per year	34.5%	2.0%	-12.9%	-21.8%	32.6%	25.8%	24.7%
2022–2023	1.3%	0.1%	-0.6%	-1.1%	1.2%	1.0%	1.0%
2022–2023	-3.2%	-4.3%	-4.6%	-3.4%	3.9%	-5.0%	-1.4%

MODAL SPLIT

	(%)						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR	
1995	47.0	15.6	5.1	4.3	28.0	0.1	
2000	48.8	14.1	4.9	4.2	28.0	0.1	
2005	51.3	12.8	4.5	4.1	27.3	0.1	
2010	51.4	12.4	5.1	3.7	27.4	0.1	
2011	50.6	13.2	4.7	3.6	27.9	0.1	
2012	49.9	13.2	5.0	3.5	28.2	0.1	
2013	50.3	12.9	5.1	3.4	28.2	0.1	
2014	50.0	13.0	4.9	3.3	28.7	0.1	
2015	50.5	13.0	4.8	3.4	28.3	0.1	
2016	50.4	13.3	4.6	3.3	28.4	0.1	
2017	51.6	12.9	4.4	3.1	27.9	0.1	
2018	50.9	12.9	3.9	3.1	29.2	0.1	
2019	51.7	12.4	4.1	3.0	28.7	0.1	
2020	53.2	11.7	4.0	2.8	28.3	0.1	
2021	53.8	12.0	3.9	2.6	27.6	0.1	
2022	53.6	11.9	3.5	2.7	28.2	0.1	
2023	52.6	11.5	3.4	2.6	29.7	0.1	

NB: Air and Sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG MOVE in line with the new EU-27 figures to avoid break in series. Following methodological changes, the times series (2005–2020) for maritime activity were backwards revised. Road: national and international haulage by vehicles registered in the EU-27 until 2004, from 2005 onwards the activity performed by European drivers within the EU territory.

Modal split of freight transport 2.2.3 on land 2023 – BY COUNTRY

tkm in %				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-27	75.0	16.4	4.8	3.8
BE	71.2	16.8	9.8	2.2
BG	60.9	18.5	17.3	3.2
CZ	76.0	21.0	0.0	3.0
DK	88.7	7.9	-	3.5
DE	70.9	20.0	6.4	2.7
EE	79.6	20.4	-	-
IE	99.3	0.7	-	-
EL	98.7	1.1	-	0.2
ES	92.1	4.1	-	3.8
FR	86.2	8.9	1.8	3.1
HR	65.5	20.2	3.1	11.2
IT	83.9	11.5	0.0	4.7
CY	100.0	-	-	-
LV	56.0	44.0	-	0.0
LT	60.5	38.9	0.1	0.5
LU	85.7	7.3	6.9	-
HU	67.0	23.6	3.0	6.4
MT	100.0	-	-	-
NL	48.7	5.9	37.7	7.8
AT	62.1	26.4	1.6	9.9
PL	72.3	23.0	0.0	4.7
PT	83.5	13.7	-	2.8
RO	52.7	23.6	21.9	1.9
SI	69.8	30.2	-	-
SK	56.9	25.8	2.2	15.0
FI	77.4	22.0	0.6	-
SE	70.1	29.7	0.2	-
IS	100.0	-	-	-
NO	61.0	9.5	-	29.6
CH	65.4	34.2	0.1	0.3

NB: Territorialised tkm is not available for the candidate countries.

2.2.4a

Road

NATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							% OF TOTAL HAULAGE 2023	% CHANGE '22/'23
	1995	2000	2005	2010	2015	2020	2023		
EU-27		936.1	1 074.6	1 035.4	1 002.6	1 110.0	1 138.1	61.3	-3.3
BE	18.6	19.8	19.3	17.8	21.3	21.5	21.5	66.8	-2.4
BG		3.1	5.0	6.1	7.2	7.4	9.9	29.9	12.3
CZ		14.2	15.5	14.8	21.2	28.3	28.6	44.2	-6.9
DK	9.3	11.0	11.1	10.6	12.5	12.4	13.9	84.9	9.1
DE	201.3	226.5	237.6	252.5	269.7	269.9	253.6	88.5	-5.6
EE	0.4	0.7	1.8	1.4	1.5	1.3	1.5	36.6	-14.5
IE	4.7	8.3	14.0	8.2	7.8	9.1	10.4	83.0	2.6
EL	20.0	23.0	19.6	25.3	15.0	14.4	14.8	74.0	-8.4
ES	78.7	106.9	166.4	146.2	137.2	163.7	178.2	67.7	0.1
FR	135.3	163.2	177.3	164.3	141.2	158.2	157.3	93.0	-2.0
HR		1.9	4.4	4.5	4.1	4.5	5.2	36.1	6.5
IT	150.3	158.3	171.6	149.2	104.1	118.2	128.8	88.7	-2.6
CY		1.3	1.4	1.1	0.5	0.7	1.0	96.4	6.8
LV		1.5	2.7	2.6	2.8	3.7	4.1	30.7	1.7
LT		1.5	2.1	2.3	2.9	4.0	4.2	6.6	31.3
LU	0.5	0.4	0.5	0.6	1.0	0.5	0.5	7.1	-16.2
HU		12.1	11.4	11.3	10.4	12.9	14.1	42.1	0.9
MT		0.2	0.2	0.2	0.2	0.2	0.2	80.0	0.0
NL	26.7	31.5	31.8	30.1	32.2	35.0	33.1	52.9	-6.5
AT	11.1	12.4	12.5	13.9	15.5	17.1	16.6	65.2	-5.7
PL		48.0	60.9	82.2	104.7	123.8	134.8	35.7	-3.7
PT	16.5	14.2	17.4	12.9	10.8	8.7	7.6	28.5	-15.6
RO		9.9	19.4	12.1	12.1	17.3	22.3	34.2	1.5
SI		1.9	2.4	2.3	2.1	2.3	3.1	13.7	20.6
SK		5.1	5.6	5.2	5.2	6.5	5.9	22.5	-4.3
FI	21.8	27.7	27.8	25.2	21.4	27.9	26.5	93.7	-8.7
SE	28.4	31.5	34.7	32.7	38.1	40.7	40.3	95.0	-12.0
IS	0.5	0.6	0.7	0.8	0.9	0.9	1.1		-10.6
NO		12.1	15.4	16.3	20.5	19.2	22.6	92.6	1.3
CH	8.4	8.9	9.2	9.6	10.4	10.6	10.3	86.7	-5.2
BA									
ME						0.1	0.1	71.3	18.7
MD				0.9	4.2	1.8	2.0	29.0	3.9
MK			1.4	1.2	1.1	1.5	2.1	17.2	11.9
AL									
RS									
TR	112.5	161.6	166.8	190.4	244.3	272.9	335.1		3.6
UA									
UK	146.7	150.3	151.2	137.8	142.9	140.5	171.6	97.4	-4.8

NB: (*) Only haulage of heavy goods vehicles (usually > 3.5 tonnes load capacity).

Road

2.2.4b

INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm								% OF TOTAL HAULAGE 2023	% CHANGE '22/'23
	1995	2000	2005	2010	2015	2020	2023		
EU-27		406.3	558.7	574.3	612.6	689.9	719.1	38.7	-3.0
BE	27.0	31.3	24.6	17.2	14.8	12.8	10.7	33.2	-6.3
BG		3.3	9.3	13.3	25.1	25.2	23.2	70.1	-11.8
CZ		23.1	27.9	37.1	37.5	27.8	36.2	55.8	3.3
DK	13.1	13.0	12.2	4.4	3.0	2.3	2.5	15.1	3.3
DE	36.5	54.2	72.5	60.6	45.2	34.7	32.8	11.5	-7.3
EE	1.1	3.2	4.0	4.2	4.7	3.0	2.7	63.4	-3.1
IE	0.8	3.9	3.9	2.7	2.1	2.4	2.1	17.0	-1.8
EL	4.0	4.5	4.2	4.6	4.7	6.8	5.2	26.0	3.9
ES	22.9	41.8	66.8	63.9	72.2	78.6	85.2	32.3	-4.0
FR	42.9	40.8	28.0	17.9	12.3	11.5	11.9	7.0	-7.0
HR		1.0	4.9	4.2	6.4	7.8	9.2	63.9	4.0
IT	24.1	26.4	40.2	26.5	12.7	15.1	16.4	11.3	-13.1
CY		0.0	0.0	0.0	0.0	0.0	0.0	3.6	42.3
LV		3.3	5.7	8.0	11.9	10.0	9.1	69.3	-13.7
LT		6.2	13.8	17.1	23.6	51.3	58.9	93.4	16.5
LU	5.0	7.2	8.3	8.1	6.9	5.7	6.5	92.9	-4.3
HU		7.0	13.8	22.4	28.0	19.4	19.3	57.9	-17.9
MT		0.1	0.1	0.1	0.1	0.1	0.1	20.0	0.0
NL	40.4	48.0	52.3	46.8	36.7	32.6	29.4	47.1	-2.0
AT	15.4	22.7	24.5	14.7	10.0	8.8	8.9	34.8	-4.4
PL		27.0	50.9	120.1	156.0	231.1	243.1	64.3	-0.8
PT	15.5	12.6	25.2	22.5	21.0	15.5	19.1	71.5	-16.7
RO		4.4	32.1	13.8	27.0	37.7	42.9	65.8	1.4
SI		3.4	8.7	13.6	15.8	20.4	19.4	86.3	-10.6
SK		9.3	16.9	22.4	28.3	25.2	20.4	77.5	-19.2
FI	2.7	4.3	4.0	4.4	3.1	1.8	1.8	6.3	12.4
SE	3.2	4.2	3.9	3.5	3.4	2.5	2.1	5.0	-0.1
IS									
NO		3.0	2.9	3.4	2.7	2.2	1.8	7.4	-14.3
CH ⁽¹⁾	0.7	0.9	1.0	3.7	2.1	1.8	1.6	13.3	-25.4
BA									
ME						0.0	0.0	28.7	-8.1
MD									
MK					9.1	9.1	9.9	82.8	-22.3
AL									
RS									
TR									
UA									
UK	14.8	15.3	10.1	8.9	7.2	5.2	4.6	2.6	-12.0

NB: (*) Including cross-trade and cabotage.
Only haulage of heavy goods vehicles (usually >3.5 tonnes load capacity).
(1) CH: in contrast to the data for other countries, until 2007 the Swiss data do not include that part of international journeys by Swiss hauliers that takes place outside Switzerland.

2.2.4c Road – NATIONAL & INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							%
	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	1127.2	1343.9	1633.3	1609.7	1615.1	1799.9	1857.2	-3.2
BE	45.6	51.0	43.8	35.0	36.1	34.4	32.2	-3.7
BG	5.2	6.4	14.4	19.4	32.3	32.6	33.1	-5.7
CZ	31.3	37.3	43.4	51.8	58.7	56.1	64.8	-1.5
DK	22.4	24.0	23.3	15.0	15.5	14.7	16.4	8.2
DE	237.8	280.7	310.1	313.1	314.8	304.6	286.4	-5.8
EE	1.5	3.9	5.8	5.6	6.3	4.3	4.2	-7.6
IE	5.5	12.3	17.9	10.9	9.9	11.4	12.6	1.8
EL	24.0	29.0	23.8	29.8	19.8	21.2	20.0	-5.5
ES	101.6	148.7	233.2	210.1	209.4	242.3	263.4	-1.3
FR	178.2	204.0	205.3	182.2	153.6	169.7	169.2	-2.4
HR		2.9	9.3	8.8	10.4	12.3	14.3	4.9
IT	174.4	184.7	211.8	175.8	116.8	133.2	145.2	-3.9
CY	1.2	1.3	1.4	1.1	0.6	0.7	1.0	7.8
LV	1.8	4.8	8.4	10.6	14.7	13.7	13.2	-9.5
LT	5.2	7.8	15.9	19.4	26.5	55.3	63.1	17.3
LU	5.5	7.6	8.8	8.7	7.8	6.2	7.0	-5.3
HU	13.8	19.1	25.2	33.7	38.4	32.2	33.4	-10.9
MT	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
NL	67.1	79.6	84.2	76.8	68.9	67.6	62.6	-4.4
AT	26.5	35.1	37.0	28.7	25.5	25.9	25.4	-5.2
PL	51.2	75.0	111.8	202.3	260.7	354.9	377.9	-1.9
PT	32.0	26.8	42.6	35.4	31.8	24.2	26.8	-16.4
RO	19.7	14.3	51.5	25.9	39.0	55.0	65.2	1.4
SI	3.3	5.3	11.0	15.9	17.9	22.7	22.5	-7.3
SK	15.9	14.3	22.6	27.6	33.5	31.6	26.4	-16.2
FI	24.5	32.0	31.9	29.5	24.5	29.7	28.3	-7.6
SE	31.6	35.6	38.6	36.3	41.5	43.2	42.4	-11.5
IS ⁽¹⁾	0.5	0.6	0.7	0.8	0.9	0.9	1.1	-10.6
NO	9.7	15.1	18.2	19.8	23.1	21.4	24.4	-0.1
CH ⁽²⁾	9.1	9.8	10.2	13.2	12.4	12.5	11.9	-8.5
BA					3.4	3.8	4.6	-0.5
ME			0.1	0.2	0.1	0.1	0.1	9.4
MD		1.0	2.4	3.2	4.2	5.6	6.9	3.9
MK			5.6	4.2	10.2	10.6	12.0	-17.9
AL	2.1	2.2	3.2	4.6	3.4	3.5	3.5	0.0
RS		0.6	0.7	1.7	3.0	7.7	9.2	-4.2
TR ⁽¹⁾	112.5	161.6	166.8	190.4	244.3	272.9	335.1	3.6
UA		2.5	9.2	53.9	53.3	65.2		
UK	161.5	165.6	161.3	146.7	150.1	145.8	176.2	-5.0

NB: (*) Including cross-trade and cabotage.
Only haulage of heavy goods vehicles (usually >3.5 tonnes load capacity).

(¹) TR, IS: national transport only.

(²) CH: in contrast to the data for other countries, until 2007 the Swiss data do not include that part of international journeys by Swiss hauliers that takes place outside Switzerland.

Road – TRANSPORT PERFORMANCE 2.2.4d

ADJUSTED FOR TERRITORIALITY (*)

HAULAGE PERFORMED WITHIN THE TERRITORY OF EACH COUNTRY BY ANY VEHICLE

billion tkm						%
	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	1 588.2	1 558.3	1 562.0	1 745.3	1 807.4	-3.2
BE	46.8	45.6	50.5	51.9	50.5	-2.6
BG	11.0	8.9	11.2	11.0	15.0	8.3
CZ	32.3	32.0	42.7	51.7	54.4	-5.6
DK	16.8	17.2	19.1	20.2	21.4	2.8
DE	370.8	404.9	433.1	466.4	457.3	-4.0
EE	2.7	2.2	2.8	2.8	3.0	-12.2
IE	15.6	9.7	9.2	9.6	11.1	2.8
EL	21.9	27.6	17.7	16.8	18.1	-7.3
ES	210.7	184.4	178.0	207.5	225.3	-1.3
FR	294.5	275.1	251.2	280.1	283.7	-2.6
HR	10.5	7.9	8.2	9.3	10.2	6.8
IT	204.0	183.6	134.0	152.9	166.2	-3.6
CY	1.4	1.1	0.5	0.7	1.0	6.8
LV	3.7	3.7	4.8	6.1	6.6	1.2
LT	4.4	5.0	7.3	8.7	9.8	15.2
LU	1.9	2.1	2.5	2.1	2.0	-12.0
HU	22.2	21.3	22.1	26.2	29.7	-0.3
MT						
NL	49.7	49.2	51.7	56.9	53.7	-5.7
AT	32.4	37.9	41.4	47.0	47.5	-5.0
PL	86.8	116.2	147.4	175.1	191.9	-2.5
PT	23.9	18.9	16.3	13.9	13.8	-12.0
RO	32.5	15.6	16.5	21.7	28.8	1.7
SI	7.3	7.3	7.8	9.0	10.7	5.5
SK	10.5	11.8	13.9	16.5	16.5	-4.4
FI	28.8	26.5	22.8	28.9	27.7	-8.6
SE	45.1	42.4	49.4	52.3	51.7	-9.9
IS						
NO	17.1	19.1	23.7	22.8	25.3	1.2
CH	23.0	21.6	20.8	23.0	22.1	-7.9
UK	167.3	151.5	157.2			

NB: (*) Including cross-trade and cabotage.

Only haulage of heavy goods vehicles (usually >3.5 tonnes load capacity).

EU aggregates do not include road freight transport for **Malta** (negligible, exempted from reporting), BG and RO data for 2005 are based on their reporting for 2006.

Data for HR and CH for 2005-2007 are based on their reporting for 2008. Road transport for CY includes only national transport (international transport is negligible). Territorialised tkm is not available for the candidate countries.

2.2.5

Railways

billion tkm								%
	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	374.8	387.9	394.6	375.0	402.8	383.7	395.8	-4.3
BE	7.3	7.7	8.1	7.5	13.9	13.4	11.9	17.2
BG	8.6	5.5	5.2	3.1	3.7	4.5	4.6	-13.1
CZ	22.6	17.5	14.9	13.8	15.3	15.3	15.0	-8.1
DK	2.0	2.0	2.0	2.2	2.6	2.5	1.9	-13.8
DE	70.5	82.7	95.4	107.3	114.3	109.2	129.1	0.4
EE	3.8	8.1	10.6	6.6	3.1	1.7	0.8	-40.0
IE	0.6	0.5	0.3	0.1	0.1	0.1	0.1	-6.2
EL	0.3	0.4	0.6	0.6	0.3	0.6	0.2	-53.9
ES	11.0	12.2	11.6	8.9	11.0	8.9	10.0	-5.6
FR	48.3	57.7	40.7	30.0	36.3	31.3	29.4	-16.7
HR	2.0	1.8	2.8	2.6	2.2	3.3	3.1	-10.9
IT	21.7	22.8	22.8	18.6	20.8	20.8	22.7	-6.7
CY	-	-	-	-	-	-	-	-
LV	9.8	13.3	19.8	17.2	18.9	8.0	5.2	-29.9
LT	7.2	8.9	12.5	13.4	14.0	15.9	6.3	-14.5
LU	0.5	0.6	0.4	0.3	0.2	0.2	0.2	4.2
HU	8.4	8.8	9.1	8.8	10.0	11.6	10.5	-7.8
MT	-	-	-	-	-	-	-	-
NL	3.1	4.5	5.9	5.9	6.5	6.7	6.5	-9.5
AT	13.2	16.6	19.0	19.8	20.8	20.5	20.2	-8.9
PL	68.2	54.0	50.0	48.7	50.6	51.1	61.1	3.0
PT	2.0	2.2	2.4	2.3	2.7	2.3	2.3	3.3
RO	17.9	16.4	16.6	12.4	13.7	12.3	12.9	-3.3
SI	3.1	2.9	3.2	3.4	4.2	4.7	4.6	-6.1
SK	13.8	11.2	9.5	8.1	8.4	6.9	7.5	-4.5
FI	9.6	10.1	9.7	9.8	8.5	10.1	7.9	-11.0
SE	19.4	19.5	21.7	23.5	20.7	22.1	22.0	-5.2
IS	-	-	-	-	-	-	-	-
NO	2.7	3.0	3.2	3.5	3.5	4.1	3.9	-7.5
CH	8.9	11.1	11.7	11.1	12.4	11.1	11.5	-4.9
BA		0.1	0.4	0.9	1.3	1.0	1.3	1.0
ME				0.2	0.1	0.1	0.2	-13.3
MD		1.5	3.0	1.0	1.0	0.6	0.8	-34.5
MK		0.5	0.5	0.5	0.3	0.3	0.1	-49.0
AL	0.1	0.0	0.0	0.1	0.0	0.0	0.0	-5.0
RS				3.5	3.2	2.7	2.1	-23.9
TR	8.5	9.8	9.1	11.3	10.2	15.3	13.0	-19.2
UA		172.8	224.0	218.1	195.1	175.6		
UK	13.3	18.1	21.4	18.6	19.3	15.2	15.9	0.5

Inland waterways

2.2.6

billion tkm								%
	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	121.9	133.7	138.6	155.4	147.4	131.7	116.4	-4.6
BE	5.7	7.2	8.6	9.1	10.4	7.4	7.0	-8.0
BG	0.5	0.3	0.8	6.0	5.6	6.3	4.3	12.3
CZ	0.3	0.1	0.1	0.0	0.0	0.0	0.0	-10.0
DK	-	-	-	-	-	-	-	-
DE	64.0	66.5	64.1	62.3	55.3	46.3	41.5	-5.9
EE	0.0	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6.6	9.1	8.9	9.5	8.5	7.0	5.9	-10.2
HR	0.0	0.1	0.1	0.9	0.9	0.9	0.5	-18.3
IT	0.1	0.2	0.1	0.1	0.1	0.1	0.0	-94.0
CY	-	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-	-
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3
LU	0.3	0.4	0.3	0.4	0.2	0.2	0.2	-17.5
HU	1.2	0.9	2.1	2.4	1.8	2.0	1.3	-12.7
MT	-	-	-	-	-	-	-	-
NL	35.5	41.3	42.2	46.6	48.5	45.2	41.6	-6.6
AT	2.0	2.4	1.8	2.4	1.8	1.6	1.2	-3.7
PL	0.9	1.2	0.3	0.1	0.1	0.1	0.0	-27.5
PT	-	-	-	-	-	-	-	-
RO	3.1	2.6	8.4	14.3	13.2	13.6	11.9	11.1
SI	-	-	-	-	-	-	-	-
SK	1.5	1.4	0.7	1.2	0.7	0.8	0.6	-5.9
FI	0.1	0.1	0.1	0.1	0.1	0.1	0.2	13.9
SE	-	-	-	-	-	0.1	0.1	0.0
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2
BA								
ME	-	-	-	-	-	-	-	
MD		0.0	0.0	0.4	0.4	0.5	0.3	0.0
MK	-	-	-	-	-	-	-	
AL	-	-	-	-	-	-	-	
RS	0.3	1.0	1.6	0.9	0.9	0.6	1.5	-4.1
TR	-	-	-	-	-	-	-	
UA		5.9	6.3	3.8	1.6	1.4		
UK	0.2	0.2	0.2	0.2	0.1	0.1	0.1	-6.6

NB: FI: only shipborne transport (i.e. no floating).

IT, LT, FI and UK: data include only national traffic.

BG and RO: data include transit traffic from 2009 (and partially in 2008).

HR: data include transit traffic from 2008 onward.

2.2.7

Oil pipelines

billion tkm								%
	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	103.8	115.7	126.8	111.0	104.1	91.7	90.5	-3.4
BE	1.4	1.6	1.5	1.5	1.6	1.6	1.6	-3.4
BG	0.4	0.4	0.4	0.4	0.7	0.6	0.8	-8.3
CZ	2.3	1.6	2.3	2.2	2.0	1.7	2.1	1.7
DK	3.1	4.7	5.1	3.5	2.3	1.0	0.8	-20.9
DE	14.8	15.0	16.7	16.3	17.7	16.7	17.3	-2.3
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	0.2	0.2	0.0	0.0	0.0	-3.4
ES	5.9	7.5	9.2	8.2	10.1	7.8	9.3	7.3
FR	22.3	21.7	20.9	17.6	11.4	9.5	10.2	1.6
HR		0.4	1.5	1.3	1.4	1.6	1.7	6.5
IT	9.7	10.3	11.4	10.4	9.2	9.1	9.3	-0.6
CY	-	-	-	-	-	-	-	-
LV	5.3	6.5	3.4	2.4	2.0	0.5	0.0	-100.0
LT	2.0	3.5	4.4	0.6	0.5	0.2	0.1	-18.0
LU	-	-	-	-	-	-	-	-
HU	2.2	2.3	2.7	3.2	2.5	2.4	2.8	18.1
MT	-	-	-	-	-	-	-	-
NL	5.3	5.9	5.9	5.6	6.0	5.2	8.6	50.6
AT	6.8	7.6	7.8	7.0	8.5	7.7	7.6	9.6
PL	13.5	20.4	25.4	24.2	21.8	20.4	12.3	-35.5
PT	-	0.5	0.5	0.4	0.4	0.3	0.5	8.1
RO	2.9	1.4	2.2	1.0	1.0	1.1	1.0	-18.1
SI	-	-	-	-	-	-	-	-
SK	6.1	4.6	5.3	5.0	5.0	4.4	4.3	-3.4
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	5.3	3.5	4.6	3.5	3.4	9.4	12.3	25.6
CH	1.2	0.2	0.2	0.2	0.1	0.1	0.1	-4.8
BA								
ME	-	-	-	-	-	-	-	-
MD				0.4				
MK	-	-	0.1	0.1	0.0	0.0	0.0	32.0
AL	-	-	-	-	-	-	-	-
RS	-	-	-	0.4	0.4	0.5	0.6	-6.3
TR	3.2	53.1	5.7	39.6	52.5	54.0	14.1	-71.7
UA	37.6	36.6	32.1	18.7	10.8	10.3		
UK	11.1	11.4	10.8	10.2	10.0	10.0	10.0	

NB: Data are not harmonised and therefore not fully comparable; in most countries, only pipelines longer than 40km are included. Data refer to oil pipelines.
DE: from 1995 onwards: only crude oil (i.e. no refined petroleum products).
DK: crude oil including water.

United States

2.2.8

PERFORMANCE BY MODE OF TRANSPORT: FREIGHT

					billion tkm
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
1990	2 432.2	1 509.6	515.8	1 519.9	5 977.5
1995	2 239.7	1 906.3	534.4	1 564.1	6 244.5
2000	2 929.1	2 140.3	526.2	1 413.0	7 008.6
2005	3 275.6	2 476.7	476.5	1 263.9	7 492.7
2010	2 672.9	2 468.8	450.6	1 395.7	6 988.0
2015	2 899.4	2 537.8	457.9	1 288.6	7 183.8
2016	3 008.8	2 314.7	445.0	1 269.8	7 038.3
2017	3 293.1	2 445.1	455.0	1 299.2	7 492.4
2018	3 229.3	2 525.2	462.9	1 432.4	7 649.8
2019	3 270.4	2 357.1	425.2	1 513.9	7 566.7
2020	3 199.6	2 102.1	409.7	1 428.0	7 139.4
2021	3 183.4	2 239.4	426.7	1 473.9	7 323.4
2022	3 178.1	2 238.7	405.6	1 560.1	7 382.5
2023	3 412.2	2 180.2	384.7	1 579.6	7 556.7

AVERAGE ANNUAL CHANGE

					% per year
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
2001	2.5	2.0	-4.1	-4.5	0.5
2002	7.8	0.8	0.3	-4.7	2.7
2003	1.8	2.9	-6.0	-0.6	1.2
2004	1.1	7.2	4.3	-0.6	2.9
2005	-1.6	2.0	-4.0	-0.6	-0.4
2006	-2.4	4.4	2.5	-0.6	0.5
2007	2.1	-0.1	-3.3	-0.6	0.6
2008	-16.1	0.4	-3.8	14.7	-4.6
2009	9.5	-13.8	-10.4	-3.5	-2.7
2010	-10.9	10.4	10.7	0.9	-0.5
2011	-9.8	2.3	3.0	6.5	-1.5
2012	11.4	-1.0	-0.5	-15.8	0.2
2013	9.0	1.6	-5.2	-4.4	3.0
2014	-2.4	6.4	10.2	4.4	2.7
2015	1.5	-6.1	-5.1	3.3	-1.5
2016	3.8	-8.8	-2.8	-1.5	-2.0
2017	9.4	5.6	2.2	2.3	6.5
2018	-1.9	3.3	1.7	10.2	2.1
2019	1.3	-6.7	-8.1	5.7	-1.1
2020	-2.2	-10.8	-3.7	-5.7	-5.6
2021	-0.5	6.5	4.1	3.2	2.6
2022	-0.2	0.0	-4.9	5.9	0.8
2023	7.4	-2.6	-5.1	1.3	2.4
1990 - 1995	-1.6	4.8	0.7	0.6	0.9
1995 - 2000	5.5	2.3	-0.3	-2.0	2.3
2000 - 2010	-0.9	1.4	-1.5	-0.1	0.0
2011 - 2023	2.9	-1.2	-1.6	0.5	0.8

NB: Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, the source is the Bureau of Transportation Statistics.

2.2.8

United States

MODAL SPLIT – FREIGHT TRANSPORT

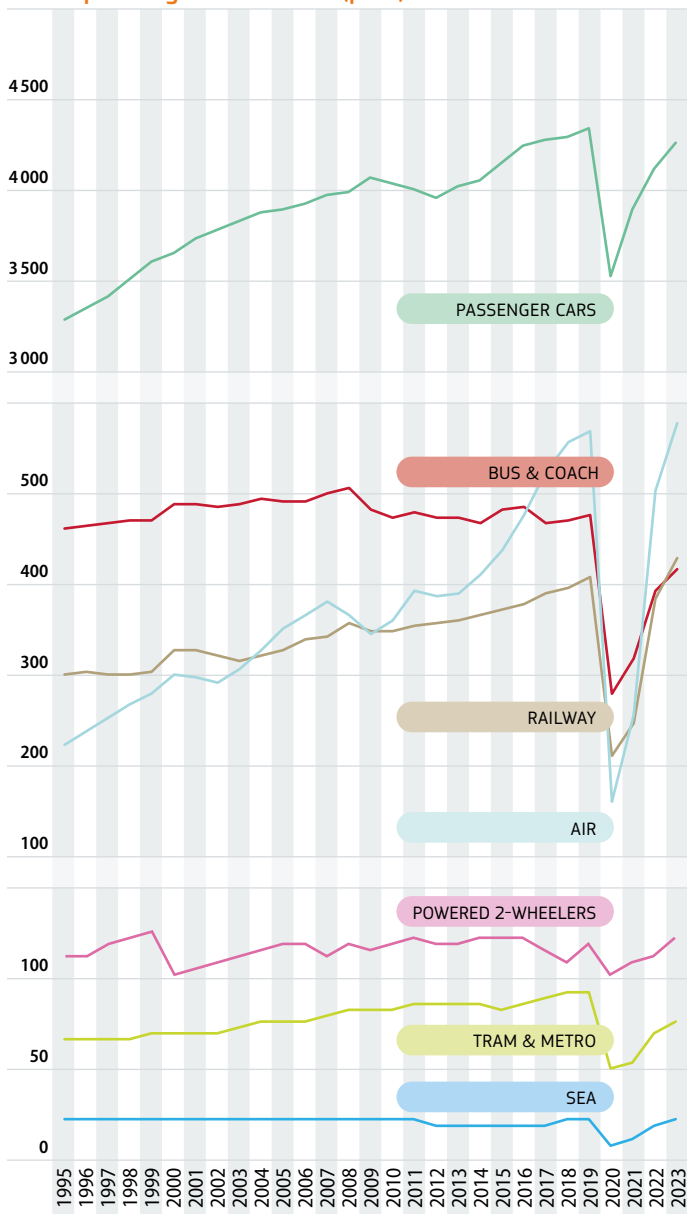
	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1990	40.7	25.3	8.6	25.4
1991	39.5	26.0	8.7	25.8
1992	40.0	25.9	8.6	25.5
1993	38.9	27.1	8.3	25.8
1994	39.4	27.9	8.3	24.5
1995	35.9	30.5	8.6	25.0
1996	36.4	30.6	8.0	24.9
1997	39.6	29.1	7.7	23.7
1998	41.0	29.1	7.5	22.3
1999	41.2	30.0	7.6	21.2
2000	41.8	30.5	7.5	20.2
2001	42.7	31.0	7.2	19.2
2002	44.8	30.4	7.0	17.8
2003	45.0	31.0	6.5	17.5
2004	44.3	32.3	6.6	16.9
2005	43.7	33.1	6.4	16.9
2006	42.5	34.4	6.5	16.7
2007	43.1	34.1	6.2	16.5
2008	37.9	35.9	6.3	19.8
2009	42.7	31.8	5.8	19.7
2010	38.2	35.3	6.4	20.0
2011	35.0	36.7	6.7	21.6
2012	38.9	36.2	6.7	18.1
2013	41.2	35.8	6.2	16.8
2014	39.2	37.1	6.6	17.1
2015	40.4	35.3	6.4	17.9
2016	42.7	32.9	6.3	18.0
2017	44.0	32.6	6.1	17.3
2018	42.2	33.0	6.1	18.7
2019	43.2	31.2	5.6	20.0
2020	44.8	29.4	5.7	20.0
2021	43.5	30.6	5.8	20.1
2022	43.0	30.3	5.5	21.1
2023	45.2	28.9	5.1	20.9

NB: Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, the source is the Bureau of Transportation Statistics.

EU-27 Performance for passenger transport 1995-2023 – BY MODE

2.3.1

billion passenger-kilometres (pkm)



2.3.2

EU-27 Performance BY MODE

PASSENGER TRANSPORT

	billion pkm							
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA	TOTAL
1995	3286.5	108.2	468.4	312.7	63.8	237.2	22.8	4 500
2000	3662.3	99.2	496.9	338.5	67.8	313.3	21.4	5 000
2005	3896.0	114.6	498.2	339.9	73.2	361.3	21.3	5 304
2010	4034.6	113.8	482.6	358.2	80.8	370.8	22.5	5 463
2011	4006.5	117.7	486.1	364.0	81.2	401.8	20.0	5 477
2012	3966.2	115.1	482.4	367.3	82.3	396.3	18.5	5 428
2013	4022.6	114.7	480.9	371.8	82.5	400.3	19.3	5 492
2014	4062.8	117.4	476.2	376.3	82.8	419.7	19.4	5 555
2015	4160.1	117.4	490.9	381.1	80.8	445.4	19.4	5 695
2016	4250.4	118.7	493.9	387.8	83.3	485.5	18.4	5 838
2017	4275.2	112.2	474.8	400.8	85.1	529.9	19.7	5 898
2018	4298.7	106.7	479.0	405.7	87.0	562.2	20.8	5 960
2019	4350.8	115.0	484.5	418.9	87.1	575.4	21.1	6 053
2020	3531.5	100.6	291.7	225.1	51.4	175.8	10.6	4 387
2021	3903.1	107.2	330.8	260.8	54.5	270.1	13.8	4 940
2022	4118.3	108.5	404.0	394.5	69.2	511.1	19.5	5 625
2023	4272.4	117.2	428.1	437.3	73.9	582.0	20.7	5 932
'95/'23	30.0%	8.4%	-8.6%	39.9%	15.8%	145.3%	-9.0%	31.8%
/year	0.9%	0.3%	-0.3%	1.2%	0.5%	3.3%	-0.3%	1.0%
'00/'23	16.7%	18.1%	-13.8%	29.2%	8.9%	85.7%	-3.1%	18.6%
/year	0.7%	0.7%	-0.6%	1.1%	0.4%	2.7%	-0.1%	0.7%
'22/'23	3.7%	8.1%	6.0%	10.8%	6.7%	13.9%	6.2%	5.4%

MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA
1995	73.0	2.4	10.4	6.9	1.4	5.3	0.5
2000	73.3	2.0	9.9	6.8	1.4	6.3	0.4
2005	73.4	2.2	9.4	6.4	1.4	6.8	0.4
2010	73.8	2.1	8.8	6.6	1.5	6.8	0.4
2011	73.1	2.1	8.9	6.6	1.5	7.3	0.4
2012	73.1	2.1	8.9	6.8	1.5	7.3	0.3
2013	73.2	2.1	8.8	6.8	1.5	7.3	0.4
2014	73.1	2.1	8.6	6.8	1.5	7.6	0.4
2015	73.0	2.1	8.6	6.7	1.4	7.8	0.3
2016	72.8	2.0	8.5	6.6	1.4	8.3	0.3
2017	72.5	1.9	8.1	6.8	1.4	9.0	0.3
2018	72.1	1.8	8.0	6.8	1.5	9.4	0.3
2019	71.9	1.9	8.0	6.9	1.4	9.5	0.3
2020	80.5	2.3	6.7	5.1	1.2	4.0	0.2
2021	79.0	2.2	6.7	5.3	1.1	5.5	0.3
2022	73.2	1.9	7.2	7.0	1.2	9.1	0.3
2023	72.0	2.0	7.2	7.4	1.2	9.8	0.3

NB: Air and Sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG MOVE in line with the new EU-27 figures to avoid break in series.
P2W: Powered two-wheelers.

Modal split of passenger transport 2.3.3 on land 2023 – BY COUNTRY

pkm as %				
	PASSENGER CARS	BUSES & COACHES	RAILWAYS	TRAM & METRO
EU-27	82.0	8.2	8.4	1.4
BE	79.5	10.2	9.3	1.0
BG	86.0	10.1	2.3	1.6
CZ	76.9	10.0	8.6	4.5
DK	81.2	10.2	7.9	0.7
DE	83.8	4.9	9.8	1.5
EE	83.1	14.0	2.3	0.6
IE	79.2	17.5	3.0	0.3
EL	83.8	14.5	0.5	1.2
ES	82.4	8.8	7.2	1.7
FR	81.7	5.7	11.5	1.1
HR	82.9	12.0	3.9	1.1
IT	82.7	9.9	6.7	0.7
CY	83.5	16.5	-	-
LV	83.8	11.8	3.8	0.5
LT	92.1	6.8	1.0	-
LU	81.8	12.2	5.0	1.1
HU	73.5	14.1	9.8	2.6
MT	82.1	17.9	-	-
NL	84.9	2.7	12.0	0.5
AT	72.2	8.9	12.8	6.1
PL	80.9	9.3	8.4	1.4
PT	87.2	7.4	4.2	1.2
RO	77.9	15.4	3.9	2.8
SI	85.5	11.9	2.6	-
SK	77.5	12.5	9.1	1.0
FI	82.3	9.9	7.0	0.8
SE	80.3	7.5	10.4	1.8
IS	87.1	12.9	-	-
NO	87.9	5.6	5.2	1.2
CH	74.8	5.6	18.7	0.9
BA				
ME	97.8	0.9	1.2	-
MD	4.9	93.5	1.5	-
MK	92.3	7.5	0.2	-
GE				
AL	91.6	8.4	0.0	-
RS	84.6	11.7	1.3	2.4
TR				
UA				
UK	86.9	3.9	7.7	1.6

NB: If powered two-wheelers are included, they account for 2.2 % of the total in EU-27, while the share of the other modes becomes:

EU-27	82.0	8.2	8.4	1.4
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2.3.4

Passenger cars

billion pkm										%
	1990	1995	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27	3 286.5	3 662.3	3 896.0	4 034.6	4 160.1	3 531.5	4 118.3	4 272.4		3.7
BE	89.5	96.4	102.5	102.8	109.4	107.0	91.4	100.8	105.3	4.4
BG		25.0	26.9	35.1	46.9	56.8	50.1	55.3	59.0	6.7
CZ		54.5	63.9	68.6	63.6	69.7	68.9	91.2	89.5	-1.9
DK	47.2	48.4	50.6	49.8	51.7	56.8	57.8	60.7	62.3	2.6
DE	683.1	815.3	831.3	856.9	887.0	927.0	785.4	851.5	863.6	1.4
EE		5.1	6.7	9.9	10.1	12.3	12.2	14.0	14.7	4.8
IE	28.5	31.6	34.6	44.4	48.1	51.9	50.8	56.5	59.8	5.9
EL	35.0	44.0	63.0	85.0	99.6	98.3	91.0	103.6	109.4	5.6
ES	174.4	250.4	302.6	392.6	395.3	366.1	287.9	386.1	396.2	2.6
FR	592.5	641.2	687.7	704.6	695.9	777.9	649.7	773.1	760.8	-1.6
HR		12.5	20.0	24.0	25.7	26.4	20.2	23.8	24.0	0.9
IT	522.6	614.7	713.9	677.0	698.4	676.4	460.5	602.9	674.2	11.8
CY		3.4	3.9	4.8	5.9	6.2	6.0	6.9	7.3	7.0
LV		7.5	11.5	12.1	12.3	13.5	14.8	12.7	13.4	5.6
LT		16.0	26.0	34.8	32.6	24.9	28.5	32.8	34.8	6.0
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.1	7.9	8.3	4.9
HU	47.0	45.4	46.2	49.4	52.6	54.6	63.9	72.6	78.3	7.9
MT		1.7	1.8	2.0	2.2	2.5	2.4	2.7	2.8	5.0
NL	137.3	131.4	141.1	148.8	144.2	139.5	105.2	125.6	136.1	8.4
AT	55.7	62.2	66.7	70.6	73.4	78.3	69.0	79.5	81.4	2.5
PL		110.7	130.1	152.3	188.8	200.6	224.1	237.3	247.9	4.5
PT	40.0	52.5	71.0	85.0	83.7	84.5	85.2	96.6	100.5	4.1
RO		40.0	51.0	61.0	75.5	89.9	99.1	117.0	124.0	6.0
SI	13.3	16.3	20.3	22.5	25.6	26.0	21.0	23.4	24.7	5.6
SK		18.0	23.9	25.8	26.9	27.5	24.8	28.4	30.2	6.4
FI	51.2	50.0	55.7	61.9	64.7	66.3	64.1	60.6	61.0	0.7
SE	85.9	87.6	103.7	108.0	108.0	111.9	90.1	94.8	102.7	8.3
IS		3.0	3.8	4.6	5.0	5.6	5.6	7.3	6.7	-8.4
NO	43.5	44.7	51.2	54.0	58.8	64.7	54.1	58.7	59.4	1.1
CH	73.3	69.6	75.0	77.8	85.9	92.0	75.4	86.0	88.5	2.9
BA										
ME					4.1	4.1	4.2	5.0	5.5	9.6
MD			0.0	0.0	0.1	0.1	0.2	0.2	0.2	-8.1
MK	3.7	4.6	4.8	4.0	4.7	7.0	9.7	10.9	12.5	14.3
GE										
AL		4.8	5.1	6.6	5.5	9.1	10.9	14.0	15.8	12.5
RS					30.6	28.6	27.7	32.6	34.3	5.1
TR	34.3	52.7	79.0	100.0	137.9	199.9	215.3	254.8	286.3	12.4
UA										
UK	588.0	617.9	638.6	664.6	644.3	661.9	505.3	636.8	679.8	6.8

NB: Data is not harmonised and therefore not fully comparable. 2023 data may be provisional. Data sometimes includes activity of foreign vehicles performed within the country, therefore EU aggregates might be affected by double-counting.

Generally vans are not considered in this table, but there may be exceptions.

FR: passenger-km include transport activity on the territory of vehicles not registered in France. Includes foreign vans.

UK: data refer to Great Britain only; include pkm by vans.

DE: includes DE-E: 1990=90.3. In 2021, revision of 2017 and 2018 data. Provisional data: 2020, 2021, 2022.

CH: includes activity of foreign vehicles in the country.

TR: excludes urban traffic.

DK: figures exclude activity of vans with a mass higher than 2000kg.

MD: includes activity of taxis only.

AT: data revision in 2024 due to change in the methodology.

ES: Source as of 2005: the Spanish Transport and Logistics Observatory; the data does not include activity on urban roads managed by municipalities, nor on access roads and service roads.

Buses & coaches

2.3.5

billion pkm										%
	1990	1995	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27		468.4	496.9	498.2	482.6	490.9	291.7	404.0	428.1	6.0
BE	11.4	13.1	13.3	17.5	17.4	14.4	8.9	11.9	13.5	13.5
BG	26.0	11.6	14.6	13.7	10.6	12.5	5.0	6.7	7.0	3.3
CZ		18.6	16.2	15.6	17.0	15.1	8.8	11.8	11.7	-1.1
DK	6.4	7.3	7.4	7.2	6.8	6.9	4.5	8.2	7.8	-4.5
DE	73.1	68.5	69.0	67.1	61.8	65.1	34.0	46.0	50.2	9.1
EE	4.5	2.0	2.6	2.7	2.1	2.4	1.4	2.0	2.5	25.4
IE	3.9	5.2	7.0	7.9	8.5	8.5	7.4	11.0	13.2	20.0
EL	17.7	20.2	21.7	21.7	21.1	21.1	13.3	17.7	18.9	6.9
ES	33.4	39.6	50.3	53.2	50.9	46.4	18.9	37.9	42.2	11.3
FR	52.3	53.2	49.6	50.1	54.0	57.6	37.2	47.2	52.9	12.1
HR	7.0	4.1	3.3	3.4	3.2	3.4	2.1	3.2	3.5	7.9
IT	84.0	87.1	93.4	101.0	102.2	102.5	59.0	85.6	80.8	-5.5
CY		1.0	1.1	1.3	1.3	1.4	0.9	1.3	1.5	13.9
LV	5.9	1.8	2.3	2.9	2.3	2.6	1.7	1.8	1.9	7.7
LT	7.9	4.2	2.8	3.7	2.7	2.7	1.5	2.1	2.6	21.6
LU	0.5	0.5	0.6	0.8	0.9	1.1	0.8	1.2	1.2	1.0
HU	19.3	16.6	18.7	17.8	16.5	17.8	12.4	14.9	15.1	1.2
MT		0.4	0.5	0.5	0.5	0.5	0.4	0.6	0.6	11.1
NL	13.0	12.0	4.6	4.8	4.8	4.9	2.4	4.2	4.3	2.2
AT	6.1	7.4	9.4	9.7	9.1	9.6	7.8	9.7	10.1	4.1
PL	46.3	34.0	59.2	49.2	41.7	37.6	19.3	26.0	28.5	9.6
PT	10.3	11.3	11.8	6.4	6.1	5.5	3.8	8.3	8.6	3.5
RO	24.0	12.3	7.7	11.8	15.8	24.9	18.7	21.3	24.5	15.1
SI	6.5	4.1	3.5	3.1	3.2	3.6	2.0	3.1	3.4	9.5
SK		14.4	9.3	8.5	5.3	5.4	3.7	4.3	4.9	11.8
FI	8.5	8.0	7.7	7.5	7.5	7.5	6.8	6.8	7.3	7.4
SE	9.7	9.7	9.2	9.3	9.4	9.8	9.0	9.4	9.6	2.5
IS		0.4	0.5	0.6	0.6	0.7	0.7	0.9	1.0	5.9
NO	3.9	3.8	4.1	4.3	4.5	4.1	2.8	3.3	3.8	15.8
CH	3.3	5.5	4.8	5.3	5.5	6.0	5.4	6.3	6.6	5.7
BA	2.7	0.1			1.9	1.7	0.7	1.3	1.4	5.4
ME					0.1	0.1	0.0	0.1	0.1	2.0
MD		2.3	1.8	2.7	2.8	3.2	2.1	3.3	3.6	8.8
MK		0.9	1.7	1.7	2.0	2.3	0.7	1.0	1.0	-2.0
GE										
AL	2.2	0.2	0.2	0.3	2.4	1.2	0.9	1.3	1.4	11.1
RS	7.2	3.7	3.1	4.8	4.7	4.6	3.1	4.7	4.7	1.9
TR		85.7	87.4	95.0	89.1	90.8	73.7	96.4	93.9	-2.6
UA			28.8	52.5	58.4	40.7	22.5			
UK	47.1	44.8	48.0	44.0	46.2	40.9	14.4	25.2	30.6	21.4

NB: Data is not harmonised and therefore not fully comparable. 2023 data may be provisional.
Data sometimes includes activity of foreign vehicles performed within the country, therefore EU aggregates might be affected by double-counting.
CZ: 1990: 43.4
FR: includes tram transport activity at province level, and tram transport in the Île de France until 2000. It also includes occasional bus transport in the territory of France performed by foreign buses.
AT: the times series includes an estimate for trolleybuses; revision of the timeseries.
UK: GB data + 1.5 bln pkm throughout to account for Northern Ireland.
CH: includes activity of foreign vehicles in the country.
PL: includes long-distance transport and estimated data for urban transport.
NL: the time series from 2010 estimates the share of bus transport over the aggregate 'bus/tram/metro' published in the OVIN Travel Survey. Previous years' estimates have been retrofitted until 2010.
NO: includes scheduled bus transport.
RO: includes interurban and international road transport, local public transport by buses and minibuses, and trolleybuses (since 2015).

2.3.6

Tram & metro

billion pkm										%
	1990	1995	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27		63.8	67.8	73.2	80.8	80.8	51.4	69.3	73.9	6.7
BE	0.7	0.8	0.9	0.9	1.1	1.2	0.9	1.2	1.3	10.2
BG	0.6	0.3	0.4	0.4	0.9	0.7	0.7	1.0	1.1	11.5
CZ		7.7	8.1	7.9	9.0	9.4	3.8	4.8	5.2	8.9
DK	-	-	-	0.2	0.2	0.3	0.3	0.5	0.5	11.8
DE	15.1	14.4	14.6	15.5	16.3	16.7	11.7	14.5	15.6	7.6
EE		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	22.3
IE	-	-	-	0.1	0.1	0.2	0.1	0.2	0.2	25.0
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.1	1.4	1.5	5.9
ES	4.4	4.3	5.2	6.0	7.6	7.2	4.2	7.1	8.0	14.0
FR	6.8	6.2	7.7	9.4	9.8	11.0	6.2	10.1	10.4	2.9
HR		0.5	0.5	0.5	0.5	0.6	0.4	0.4	0.3	-8.0
IT	4.2	5.2	5.6	6.0	7.1	6.8	4.4	6.3	5.7	-9.4
CY	-	-	-	-	-	-	-	-	-	-
LV	0.7	0.3	0.3	0.3	0.4	0.4	0.2	0.1	0.1	12.3
LT	-	-	-	-	-	-	-	-	-	-
LU	-	-	-	-	-	-	0.0	0.1	0.1	11.1
HU		2.5	2.6	2.4	2.5	2.9	1.8	2.3	2.8	20.8
MT	-	-	-	-	-	-	-	-	-	-
NL	1.3	1.4	0.7	0.7	0.9	0.9	0.5	0.8	0.8	2.2
AT	4.2	5.1	6.0	6.4	6.9	7.2	5.9	6.6	6.8	4.2
PL		5.0	4.7	4.4	4.3	4.2	2.6	3.9	4.2	6.9
PT	0.7	0.5	0.5	0.8	1.1	1.0	0.7	1.1	1.3	22.2
RO		6.0	6.0	6.6	7.1	4.9	3.4	4.1	4.5	11.3
SI	-	-	-	-	-	-	-	-	-	-
SK		0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.4	22.2
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6	5.9
SE	2.0	1.9	2.0	2.0	2.3	2.5	1.7	2.1	2.3	7.1
IS	-	-	-	-	-	-	-	-	-	-
NO	0.4	0.4	0.5	0.5	0.6	0.8	0.5	0.7	0.8	14.3
CH		1.5	1.4	0.8	1.0	1.2	0.8	1.0	1.1	9.7
BA							0.1	0.2	0.2	5.9
ME	-	-	-	-	-	-	-	-	-	-
MD	-	-	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-	-	-
GE										
AL	-	-	-	-	-	-	-	-	-	-
RS					0.4	0.4	0.6	0.9	1.0	5.9
TR										
UA					9.8	9.6	9.2			
UK	6.5	6.8	8.3	8.7	10.2	13.3	3.2	11.1	12.2	10.1

NB: Data are not harmonised and therefore not fully comparable across countries.

Data for 2023 are mostly provisional.

FR: include metro and tramways in Île-de-France (as of 2000) and metro in other French cities.

PT: data refer to Lisbon. Porto and Sul do Tejo Metro systems (the latter as from 2014).

ES: including metro of Malaga since 2014.

AT: it includes regional rail transport activity.

NL: the time series from 2010 estimates the share of tram & metro over the aggregate 'bus/tram/metro' published in the OVIN Travel Survey. Previous years' estimates have been retrofitted until 2010.

Railways

2.3.7

	billion pkm									% UNDER PSO (*) 2023	% CHANGE '22/'23
	1990	1995	2000	2005	2010	2015	2020	2022	2023		
EU-27	362.1	312.7	338.5	339.9	358.2	381.1	225.1	394.5	437.3	58.7	10.8
BE	6.5	6.8	7.7	8.5	10.5	10.5	7.9	11.4	12.3	84.6	7.8
BG	7.8	4.7	3.5	2.4	2.1	1.5	1.1	1.6	1.6	97.2	-0.5
CZ	13.3	8.0	7.3	6.7	6.6	8.1	6.6	9.4	10.0	92.1	6.4
DK	5.1	4.9	5.5	6.0	6.3	6.5	3.9	5.8	6.0	100.0	3.6
DE	61.0	71.0	75.4	76.8	83.9	91.1	57.8	92.3	101.4	55.2	9.9
EE	1.5	0.4	0.3	0.2	0.2	0.3	0.3	0.4	0.4	100.0	6.8
IE	1.2	1.3	1.4	1.8	1.7	1.9	0.8	1.7	2.2	100.0	27.9
EL	2.0	1.6	1.9	1.9	1.4	1.3	0.6	1.1	0.7	95.5	-39.7
ES	16.7	16.6	20.1	21.6	22.5	26.1	12.1	27.5	34.6	39.2	26.0
FR	53.8	46.8	74.9	82.3	92.4	94.7	56.7	101.5	107.0	39.2	5.4
HR	3.4	1.1	1.3	1.2	1.7	0.9	0.4	0.8	1.1	92.4	40.6
IT	44.7	46.7	49.6	50.1	47.2	52.2	22.3	46.5	54.8	50.2	17.8
CY	-	-	-	-	-	-	-	-	-	-	-
LV	5.4	1.4	0.7	0.9	0.7	0.6	0.4	0.5	0.6	100.0	13.1
LT	3.6	1.1	0.6	0.3	0.2	0.3	0.2	0.4	0.4	88.2	2.6
LU	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.5	100.0	29.8
HU	11.4	8.4	9.7	9.9	7.7	7.6	4.9	7.8	10.4	99.3	33.1
MT	-	-	-	-	-	-	-	-	-	-	-
NL	11.1	16.4	14.7	15.2	16.9	17.5	9.2	17.1	19.2	99.9	12.2
AT	8.9	10.1	8.7	8.7	10.3	12.1	7.4	12.9	14.4	66.4	12.3
PL	50.4	26.6	24.1	18.2	17.9	17.4	12.6	23.8	25.8	92.2	8.2
PT	5.7	4.8	4.0	3.8	4.1	4.0	2.6	4.4	4.8	85.3	9.3
RO	30.6	18.9	11.6	8.0	5.4	5.1	3.7	5.8	6.2	100.0	6.1
SI	1.4	0.6	0.7	0.7	0.7	0.6	0.3	0.6	0.7	98.7	15.0
SK	6.4	4.2	2.9	2.2	2.3	3.4	2.1	3.2	3.5	95.1	11.8
FI	3.3	3.2	3.4	3.5	4.0	4.1	2.8	4.6	5.2	36.1	13.7
SE	6.6	6.8	8.2	8.9	11.2	12.7	8.1	12.9	13.3	57.3	3.3
IS	-	-	-	-	-	-	-	-	-	-	-
NO	2.1	2.4	2.6	2.7	3.2	3.6	1.8	3.1	3.5	99.8	14.1
CH	12.7	11.7	12.6	16.1	19.2	20.2	13.3	19.2	22.1	-	15.1
BA						0.0	0.0	0.0	0.0	-	6.3
ME					0.1	0.1	0.0	0.1	0.1	-	30.8
MD			0.3	0.4	0.4	0.2	0.0	0.0	0.1	-	84.1
MK		0.1	0.1	0.1	0.2	0.2	0.0	0.0	0.0	-	-30.4
GE				0.7	0.7	0.5	0.2	0.5	0.7	-	42.3
AL	0.8	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-	-13.0
RS	4.5	2.3	1.2	0.7	0.5	0.5	0.2	0.4	0.5	-	23.9
TR	6.4	5.8	5.8	5.0	5.5	3.7	1.5	5.9	6.2	-	5.5
UA			51.8	52.7	50.2	35.4	10.7			-	
UK	33.4	30.3	38.4	44.6	55.8	66.6	24.8	51.9	60.0	-	15.5

NB: (*) Public Service Obligation (PSO) means a requirement defined or determined by a competent authority in order to ensure public passenger transport services in the general interest that an operator, if it were considering its own commercial interests, would not assume or would not assume to the same extent or under the same conditions without reward.

UK: share of PSO excludes Northern Ireland.

FR: includes RER trains exploited by RATP and Tramline 4.

Sources: Eurostat, International Transport Forum (PL, MD, AL, RS, UA), UNECE (UK, data refers to GB only), Union internationale des chemins de fer, DG MOVE Rail Market Monitoring (BE since 2012) national statistics (FR, ME), estimates (*in italics*). Shares under PSO from Rail Market Monitoring (DG MOVE) and DG MOVE estimates, based on different volumes than Eurostat

2.3.8

Rail

HIGH-SPEED RAIL TRANSPORT

	billion pkm													EU-27
	BE	CZ	DE	ES	FR	IT	NL	AT	PL	PT	SI	FI	SE	
1990	-	-	-	-	14.92	0.30	-	-	-	-	-	-	0.01	15.2
1995	-	-	8.70	1.29	20.94	1.10	-	-	-	-	-	-	0.42	32.5
2000	0.87	-	13.93	1.94	35.19	5.09	0.11	-	-	-	-	0.07	2.05	59.2
2005	0.98	0.01	20.85	2.32	43.42	8.55	0.69	-	-	0.49	-	0.31	2.33	80.0
2010	1.06	0.27	23.90	11.72	53.91	11.34	0.29	0.21	-	0.52	0.02	0.65	2.94	106.8
2011	0.91	0.29	23.31	11.23	55.19	12.28	0.31	0.46	-	0.47	0.01	0.71	2.83	108.0
2012	0.91	0.27	24.75	11.18	55.19	12.79	0.32	0.48	-	0.46	0.01	0.71	2.95	110.0
2013	0.91	0.25	25.18	12.74	54.91	13.34	0.36	0.51	-	0.47	0.01	0.76	3.06	112.5
2014	0.91	0.25	24.32	12.79	54.87	13.67	0.24	0.51	-	0.54	0.01	0.65	3.23	112.0
2015	1.20	0.57	25.28	14.13	55.20	14.28	1.00	0.52	0.47	0.57	0.01	0.57	3.37	117.2
2016	1.50	0.70	27.21	15.06	54.76	14.28	0.37	0.58	1.44	0.61	0.00	0.61	3.48	120.6
2017	1.56	0.77	28.50	15.54	59.65	14.56	0.41	0.58	1.44	0.65	0.00	0.68	3.60	128.0
2018	1.56	0.79	31.07	16.13	56.06	15.18	0.40	0.60	1.55	0.66	0.00	0.80	3.52	128.3
2019	1.56	0.88	33.20	16.07	58.93	15.48	0.45	0.60	1.68	0.70	0.00	0.81	3.90	134.3
2020	1.00	0.54	18.15	5.61	33.06	6.09	0.14	0.33	0.76	0.22	0.00	0.33	1.80	68.0
2021	1.35	0.55	19.57	6.37	43.52	7.58	0.14	0.38	1.12	0.27	0.03	0.34	1.94	83.2
2022	1.45	0.58	33.99	9.75	61.38	12.72	0.20	0.59	1.40	0.55	0.04	0.39	3.03	126.1
2023	1.57	0.62	37.96	9.93	64.57	14.99	0.45	0.66	1.62	0.60	0.10	0.44	3.19	136.7

NB: In this table, high-speed rail transport covers all traffic with high-speed rolling stock (incl. tilting trains able to run 200 km/h). This does not necessarily require high-speed infrastructure as defined in table 2.5.4.

SHARE OF HIGH-SPEED RAIL TRANSPORT IN TOTAL PASSENGER-KILOMETRES IN RAIL TRANSPORT

														%
	BE	CZ	DE	ES	FR	IT	NL	AT	PL	PT	SI	FI	SE	EU-27
2000	11.2	-	18.5	9.6	47.0	10.3	0.8	-	-	-	-	2.1	24.8	17.4
2005	11.5	0.1	27.2	10.7	52.7	17.1	4.5	-	-	12.9	-	8.9	26.2	23.4
2010	10.1	4.1	28.5	52.2	58.4	24.0	1.7	2.1	-	12.6	2.1	16.4	26.3	29.4
2011	8.5	4.3	27.3	49.3	57.7	26.2	1.7	4.3	-	11.0	1.9	18.3	24.8	28.5
2012	8.3	3.8	27.9	49.7	57.6	27.4	1.8	4.3	-	12.1	1.8	17.5	25.0	28.8
2013	8.3	3.3	28.1	53.6	57.7	27.4	1.9	4.3	-	12.7	1.6	18.7	25.8	28.9
2014	8.3	3.2	26.7	51.0	58.1	27.4	1.2	4.3	-	14.0	1.2	16.8	26.6	28.4
2015	11.4	7.0	27.8	54.0	58.3	27.4	5.7	4.3	2.7	14.4	0.9	13.9	26.4	28.8
2016	15.0	8.0	28.5	56.5	58.3	27.4	2.0	4.6	7.5	14.4	0.6	15.8	27.2	29.6
2017	15.1	8.2	29.8	56.5	59.5	27.4	2.2	4.6	7.1	14.5	0.3	15.9	27.0	31.0
2018	13.3	7.8	31.6	56.7	59.3	27.4	2.1	4.6	7.4	14.5	0.3	17.5	26.0	31.0
2019	13.0	8.1	33.1	55.7	59.6	27.4	2.3	4.5	7.6	13.8	0.3	16.5	26.7	31.4
2020	12.7	8.1	31.4	46.5	58.3	27.4	1.5	4.5	6.0	8.7	0.1	11.5	22.1	30.5
2021	17.1	8.1	34.0	37.5	58.7	27.4	1.3	4.5	7.1	9.3	5.4	11.7	24.2	32.1
2022	12.7	6.2	36.8	35.5	60.5	27.4	1.2	4.6	5.9	12.5	6.0	8.5	23.5	32.0
2023	12.7	6.2	37.4	28.7	60.4	27.4	2.4	4.6	6.3	12.4	12.8	8.5	24.0	31.3

United States

2.3.9

PERFORMANCE BY MODE OF TRANSPORT: PASSENGERS

	billion pkm						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	TOTAL
1990	5 280.5	20.0	28.2	195.4	12.3	563.6	6 100.0
1995	5 702.0	17.3	25.9	219.0	14.7	647.6	6 626.5
2000	6 372.2	24.9	31.1	259.0	17.3	829.8	7 534.3
2005	6 952.4	28.2	31.9	238.2	18.0	921.9	8 190.5
2010	7 131.7	34.6	36.7	469.8	20.8	892.7	8 586.4
2015	7 495.0	36.6	40.1	553.7	23.1	1 017.4	9 165.9
2016	7 684.7	38.2	40.0	557.8	23.4	1 064.5	9 408.6
2017	7 751.0	37.6	38.9	587.8	24.2	1 103.2	9 542.6
2018	7 804.1	37.5	37.5	624.5	30.5	1 162.6	9 696.7
2019	7 876.7	36.8	38.3	613.4	24.8	1 214.2	9 804.2
2020	6 936.7	34.8	20.0	513.0	12.6	492.6	8 009.6
2021	7 466.3	38.1	16.5	571.3	7.6	922.8	9 022.6
2022	6 907.2	39.2	23.6	630.8	11.9	1 141.0	8 753.7
2023	7 045.7	33.3	27.6	603.9	14.1	1 244.8	8 969.4

AVERAGE ANNUAL CHANGE

	% per year						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	TOTAL
2005	1.0	-8.0	-0.3	2.6	-1.1	4.6	1.4
2010	0.6	-11.1	0.5	-4.3	-2.8	2.6	0.5
2015	2.6	-1.8	-0.3	1.4	0.6	5.9	2.8
2016	2.5	4.3	-0.2	0.7	1.1	4.6	2.6
2017	0.9	-1.4	-2.9	5.4	3.5	3.6	1.4
2018	0.7	-0.4	-3.6	6.2	26.2	5.4	1.6
2019	0.9	-1.9	2.2	-1.8	-18.8	4.4	1.1
2020	-11.9	-5.4	-47.9	-16.4	-49.0	-59.4	-18.3
2021	7.6	9.4	-17.2	11.4	-39.6	87.4	12.6
2022	-7.5	3.0	43.1	10.4	55.8	23.6	-3.0
2023	2.0	-15.1	16.6	-4.3	18.7	9.1	2.5
'90/'95	1.5	-2.8	-1.7	2.3	3.5	2.8	1.7
'95/'00	2.2	7.5	3.7	3.4	3.4	5.1	2.6
'00/'10	1.1	3.3	1.7	6.1	1.9	0.7	1.3
'11/'23	-0.1	-0.3	-2.7	2.1	-3.6	2.6	0.3

MODAL SPLIT

	%						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	
1990	86.6	0.3	0.5	3.2	0.2	9.2	
1995	86.0	0.3	0.4	3.3	0.2	9.8	
2000	84.6	0.3	0.4	3.4	0.2	11.0	
2005	84.9	0.3	0.4	2.9	0.2	11.3	
2010	83.1	0.4	0.4	5.5	0.2	10.4	
2015	81.8	0.4	0.4	6.0	0.3	11.1	
2016	81.7	0.4	0.4	5.9	0.2	11.3	
2017	81.2	0.4	0.4	6.2	0.3	11.6	
2018	80.5	0.4	0.4	6.4	0.3	12.0	
2019	80.3	0.4	0.4	6.3	0.3	12.4	
2020	86.6	0.4	0.2	6.4	0.2	6.1	
2021	82.8	0.4	0.2	6.3	0.1	10.2	
2022	78.9	0.4	0.3	7.2	0.1	13.0	
2023	78.6	0.4	0.3	6.7	0.2	13.9	

NB: Revision of bus data.

(*) Passenger cars include light duty vehicles, short wheel base and long wheel base.

(**) Bus includes highway busses and transit busses (motor bus, commuter bus, demand response; and trolleybus).

2.4

2.4.1

Air – PASSENGER TRAFFIC BETWEEN MEMBER STATES

REPORTER	TOTAL PASSENGERS CARRIED (*)												
	PARTNER												
	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY
BE	5.8	250.6	323.9	477.1	1529.3	41.9	509.6	1266.6	6120.4	1905.2	248.4	3455.5	53.9
BG	242.3	250.6	334.4	118.5	1927.8	13.6	110.2	200.1	572.4	300.7	35.1	919.2	163.5
CZ	323.4	335.9	18.2	239.2	762.4	0.1	192.5	1010.6	1252.2	922.0	101.2	1584.3	118.9
DK	476.9	116.6	239.0	1543.3	2063.3	65.9	315.6	1149.0	3275.1	1681.7	229.9	1688.8	184.4
DE	1516.9	1946.6	754.3	2330.8	11542.6	407.7	2015.5	8787.7	26250.7	6348.2	2261.7	11432.5	572.1
EE	41.7	13.8	0.0	65.9	410.5	57.5	14.0	66.6	83.7	73.8	25.4	182.0	14.6
IE	508.6	119.7	192.3	315.5	2022.3	13.9	148.6	358.1	5508.5	2493.5	280.0	2009.2	34.0
EL	1320.2	200.0	1007.5	1137.9	8869.1	65.9	356.3	9666.4	1055.6	3466.9	139.6	4381.5	1891.1
ES	6092.5	572.9	1250.0	3310.9	26565.8	83.9	5482.1	1058.9	46312.4	16071.9	292.8	17947.2	4.7
FR	1832.8	254.9	861.0	1599.1	6419.5	73.2	2404.5	3242.3	14614.2	26198.8	706.8	12708.1	236.7
HR	247.1	35.1	98.9	229.9	2271.6	25.5	279.1	145.0	292.6	862.9	425.7	570.2	43.1
IT	3437.9	909.5	1548.4	1653.4	11343.0	179.4	1992.6	4319.8	17875.9	13018.0	572.4	34222.2	231.5
CY	53.7	161.5	119.0	185.3	580.2	14.6	34.1	1906.5	5.1	269.0	43.3	238.1	0.0
LV	125.6	17.2	103.2	246.7	837.1	288.8	108.8	127.6	331.0	187.6	29.8	334.9	70.0
LT	66.3	56.3	0.3	335.3	521.7	48.3	195.9	184.7	305.6	161.7	28.1	408.2	79.6
LU	1.4	20.0	18.4	50.5	474.1		103.6	126.4	764.6	371.3	6.3	517.1	0.2
HU	425.5	97.0	106.6	290.4	1537.2	0.0	244.4	598.7	1198.0	608.9	16.5	1601.4	255.5
MT	186.1	52.7	31.9	82.4	694.2	8.3	103.1	196.8	371.6	645.9	63.1	1907.5	21.3
NL	192.9	372.1	613.8	1701.1	3519.4	85.4	1452.3	2230.9	9307.2	2923.5	609.6	4526.7	104.0
AT	606.5	543.6	164.9	648.2	5188.0	60.5	229.9	1647.4	2905.4	1408.8	467.6	2512.4	394.7
PL	697.2	766.7	304.8	996.0	3883.2	199.4	1035.0	2453.4	3617.1	1686.8	531.2	3953.8	717.1
PT	1490.1	45.1	254.3	496.2	4871.2	2.9	1599.6	185.2	6981.3	8756.0	1.3	3151.3	0.1
RO	780.1	45.8	105.0	292.3	2622.4	0.0	315.0	935.8	1918.7	1493.9	14.9	4166.6	273.4
SI	61.5	0.2		0.9	167.5		0.4	56.8	7.9	105.4	0.3	0.1	0.0
SK	41.5	117.5	70.3	7.4	1.6	0.0	88.9	261.7	69.5	3.2	23.9	234.4	108.1
FI	263.7	21.9	162.5	635.5	1569.1	275.9	116.6	604.8	1367.6	679.1	174.7	712.2	75.3
SE	511.2	70.0	173.7	1396.3	2426.1	235.7	190.2	1061.7	3026.7	1045.3	337.3	915.0	235.6

NB: (*) Passengers carried are fewer than passengers on board, due to transit passengers staying on board the aircraft not being counted.

Air – PASSENGER TRAFFIC BETWEEN MEMBER STATES

2.4.1

2023

INCLUDING DOMESTIC FLIGHTS (1 000)

LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE
125.9	66.7	2.2	426.3	187.6	198.8	654.9	698.3	1 489.8	779.2	61.6	42.1	264.2	511.7
16.6	55.9	19.4	96.4	53.2	369.9	541.3	758.9	45.1	45.8	0.4	123.9	22.2	68.9
103.1	0.3	18.4	107.3	32.0	614.3	166.7	305.7	254.0	105.0	0.1	72.4	162.2	174.2
246.7	337.5	51.0	290.9	83.7	1 702.9	666.7	994.6	493.8	285.8	1.0	7.3	634.0	1 391.4
831.8	520.1	468.0	1 533.4	694.0	3 503.1	5 165.8	3 865.6	4 838.1	2 703.6	167.4	1.1	1 560.2	2 436.5
288.4	48.2		0.2	8.4	85.9	60.5	199.2	3.0	0.0		0.1	274.9	235.2
108.8	198.6	104.5	244.2	103.7	1 452.6	230.3	1 036.7	1 601.3	315.3		90.1	116.8	189.5
126.4	184.4	127.4	595.0	196.6	2 307.0	1 634.6	2 438.7	184.9	976.7	64.1	267.5	598.5	1 087.6
330.4	309.0	776.8	1 171.8	371.5	9 331.0	2 905.5	3 594.2	6 952.2	1 882.1	8.5	70.4	1 371.6	3 125.2
186.6	161.5	371.2	606.7	641.5	2 906.3	1 305.8	1 618.3	8 156.3	1 295.6	104.9	2.5	673.4	1 038.6
29.7	28.3	6.2	16.6	63.4	614.2	462.1	532.8	1.3	14.7	0.1	18.8	175.1	346.5
326.6	398.9	521.3	1 593.7	1 917.1	4 540.8	2 501.6	3 880.2	3 125.8	4 193.6	0.3	212.8	728.5	888.8
70.3	80.6	0.3	255.7	59.1	103.8	394.8	722.7	0.6	272.6	0.0	113.0	75.5	250.8
0.0	290.7		26.8	54.1	200.5	202.1	276.5	56.9	25.9	0.7	0.6	445.3	327.4
289.3	0.1	0.0	0.4	42.5	196.5	89.0	286.3	31.1	0.4	0.1	34.1	129.9	167.4
0.1	0.0		20.6	41.6	160.1	99.8	54.1	917.2	48.2	2.7	0.3	2.4	20.6
26.8	0.3	20.6	0.3	137.1	668.2	154.3	382.6	275.3	169.5	0.0	0.0	128.0	276.9
53.6	42.5	42.0	136.3		131.1	185.0	378.4	104.2	115.6	5.4	59.3	0.4	38.8
189.5	197.8	160.8	670.3	131.6	6.2	1 165.6	1 755.2	2 512.1	692.4	29.8	35.9	679.1	1 204.1
202.0	89.5	100.4	153.8	186.0	1 193.5	254.9	689.1	477.1	656.8	0.1	94.4	228.7	521.0
276.2	287.2	54.6	383.3	381.4	1 756.0	689.3	1 899.7	652.6	250.1	60.3	22.9	409.4	1 434.7
56.9	30.6	929.5	275.4	104.6	2 512.4	476.9	651.2	6 237.3	69.9	2.3	0.4	160.7	245.1
25.8	0.0	47.0	73.1	116.8	691.5	656.0	250.7	70.0	910.0	0.4	0.1	2.9	179.4
0.6	0.1	2.7	0.0	5.3	44.3	0.1	60.3	2.2	0.2		0.1	21.7	0.0
0.7	34.2	0.5	0.1	59.3	35.6	93.7	22.5	0.4	0.1	0.2	0.9	0.0	0.7
445.8	130.6	2.5	128.2	0.4	678.5	229.1	409.5	162.1	5.1	21.8	0.0	1 802.3	1 296.6
327.4	168.2	20.8	278.1	38.8	1 084.0	521.1	1 432.9	245.6	178.4	0.1	0.4	1 294.9	4 658.0

2.4.2

Air

MAJOR EUROPEAN AIRLINES

DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES										%
	AIRLINE		2000	2005	2010	2015	2020	2021	2022	2023	CHANGE '22/'23
1	Ryanair ⁽¹⁾	IE	4.99	30.30	85.69	130.56	34.98	120.56	213.62	232.70	9%
2	Turkish Airlines	TR	17.39	21.32	47.95	119.37	53.25	86.71	162.68	193.93	19%
3	British Airways	UK	123.20	111.86	106.08	142.02	39.12	30.70	104.50	140.14	34%
4	Lufthansa	DE	88.61	108.19	129.67	146.32	40.06	50.07	119.36	139.76	17%
5	Air France	FR	93.35	115.16	125.17	142.49	47.34	60.18	123.38	139.68	13%
6	Wizz Air	HU			12.28	30.79	16.69	43.68	86.81	109.96	27%
7	EasyJet ⁽²⁾	UK	4.73	27.45	56.13	77.62	58.91	23.59	84.87	102.98	21%
8	KLM	NL	60.05	68.32	76.06	93.23	33.87	40.91	82.29	92.65	13%
9	Iberia	ES	40.48	49.06	51.24	48.57	17.76	27.98	53.83	66.02	23%
10	Pegasus	TR	3.55	5.12	10.66	21.22	15.30	22.62	36.21	49.37	36%
11	Swiss	CH	3.48	21.16	29.52	40.05	13.07	15.01	35.47	46.72	32%
12	TAP Air Portugal	PT	10.39	14.54	23.65	29.55	11.88	14.92	36.78	42.67	16%
13	Jet2	UK		3.11	6.22	12.22	7.06	7.69	38.31	40.90	7%
14	Vueling	ES		1.66	9.93	24.78	9.18	15.55	32.92	38.12	16%
15	Transavia	NL	8.27	8.95	10.64	20.25	9.83	15.01	31.83	37.80	19%
16	TUI Airways	UK	20.30	23.34	32.71	33.40	7.38	6.26	37.12	36.67	-1%
17	Virgin Atlantic	UK	29.47	32.12	38.16	37.16	7.79	6.93	28.26	34.75	23%
18	SAS	SE	22.65	27.72	23.50	33.78	14.13	8.26	24.32	32.55	34%
19	Air Europa	ES	8.59	13.44	17.18	22.50	9.07	11.93	26.96	31.68	17%
20	Condor	DE	24.00	22.24	19.89	27.90	7.64	9.61	21.12	28.49	35%
21	Finnair	FI	12.70	16.74	19.22	25.59	8.15	5.18	21.16	27.63	31%
22	Norwegian	NO		2.70	13.77	42.28	13.68	6.87	22.76	27.38	20%
23	Eurowings ⁽³⁾	DE	2.33	1.02	1.30	15.87	7.50	10.24	22.28	27.00	21%
24	Aer Lingus	IE	8.89	12.56	13.90	17.53	4.06	3.54	20.19	25.45	26%
25	ITA Airways ⁽⁴⁾	IT						0.99	13.74	23.76	73%
26	SunExpress	TR		3.94	10.84	12.21	6.25	11.89	23.17	23.59	2%
27	AJet	TR			3.66	7.20	5.70	12.40	18.05	22.54	25%
28	LOT Polish Airlines	PL	5.71	6.28	7.55	7.23	5.58	8.36	17.33	21.75	25%
29	Austrian	AT	8.80	22.89	17.49	18.19	4.41	7.01	17.24	20.84	21%
30	Transavia France	FR			2.76	6.06	4.07	6.99	16.03	19.72	23%

NB: Scheduled and non-scheduled flights.

⁽¹⁾ Figures refer to the **Ryanair Group** (Ryanair, Ryanair UK, Malta Air, Buzz); Year up to 30 March of the following year.

⁽²⁾ Easyjet: financial year up to 30 September of the year indicated.

⁽³⁾ Germanwings merged with Eurowings in 2015.

Data up to 2014 are revenue passenger-kilometres for Germanwings.

⁽⁴⁾ ITA Airways was founded in November 2020 and started its operations on 15 October 2021.

Air – PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

2.4.3

PASSENGERS CARRIED (*)

RANKING	(arriving + departing)		MILLION PASSENGERS								% CHANGE '22/'23
	AIRPORT		2000	2005	2010	2015	2020	2021	2022	2023	
1	Paris / Charles de Gaulles	FR	64.29	53.38	57.93	65.67	22.24	26.19	57.46	67.39	17.3
2	Amsterdam / Schiphol	NL	39.27	44.08	45.15	58.17	20.88	25.49	52.47	61.89	17.9
3	Madrid / Barajas	ES	24.38	41.72	49.80	46.30	16.49	23.19	49.94	60.14	20.4
4	Frankfurt / Main	DE	48.96	51.79	52.65	60.89	18.74	24.77	48.79	59.26	21.5
5	Barcelona / El Prat	ES	14.39	27.02	29.18	39.42	12.44	18.48	41.31	49.81	20.6
6	Roma / Fiumicino	IT		27.78	35.95	40.23	9.77	11.59	29.17	40.31	38.2
7	München	DE	22.87	28.45	34.52	40.86	11.09	12.47	31.61	37.01	17.1
8	Lisboa	PT	9.21	11.24	14.05	20.11	9.27	12.15	28.25	33.64	19.1
9	Dublin	IE	13.66	18.33	18.41	24.92	7.26	8.26	27.79	33.25	19.7
10	Paris / Orly	FR	23.83	24.85	25.16	29.66	10.78	15.72	29.18	32.29	10.6
11	Palma de Mallorca	ES	16.87	21.22	21.08	23.72	6.10	14.47	28.55	31.09	8.9
12	Wien / Schwechat	AT	11.92	15.80	19.62	22.74	7.85	10.47	23.79	29.66	24.7
13	Athina / Eleftherios Venizelos	EL	13.35	14.34	15.39	18.09	8.77	13.36	24.36	28.26	16.0
14	Kopenhagen / Kastrup	DK	18.11	19.82	21.39	26.51	7.49	9.15	22.06	26.70	21.0
15	Milano / Malpensa	IT		19.49	18.71	18.44	7.21	9.58	21.22	25.90	22.1
16	Berlin / Brandenburg	DE	2.09	5.00	7.25	8.51	3.22	9.93	19.83	23.05	16.2
17	Malaga / Costa del Sol	ES	8.26	12.61	12.02	14.36	5.07	8.75	18.33	22.29	21.6
18	Brussel-Bruxelles / Brussels	BE	21.60	15.95	16.98	23.27	6.71	9.33	18.88	22.18	17.5
19	Stockholm / Arlanda	SE	18.61	17.16	16.96	23.15	6.53	7.49	18.37	21.84	18.9
20	Düsseldorf	DE	15.91	15.39	18.91	22.45	6.56	7.94	16.05	19.09	19.0
21	Warszawa / Chopina	PL	4.33	7.08	8.73	11.21	5.47	7.44	14.38	18.46	28.4
22	Bergamo / Orio al Serio	IT	1.24	4.29	7.66	10.40	3.83	6.47	13.15	15.97	21.4
23	Alicante	ES	5.29	8.93	9.37	10.56	3.72	5.81	13.17	15.72	19.4
24	Helsinki / Vantaa	FI	10.00	11.13	12.86	16.42	5.08	4.30	12.98	15.41	18.8
25	Porto	PT	2.73	3.11	5.28	8.09	4.45	5.79	12.57	15.18	20.8
26	Bucuresti / Henri Coanda	RO		2.98	4.92	9.27	4.45	6.89	12.59	14.62	16.1
27	Budapest / Liszt Ferenc	HU	4.68	7.92	8.17	10.23	3.84	4.59	12.15	14.61	20.3
28	Nice / Côte d'Azur	FR	9.33	9.74	9.59	12.01	4.57	6.53	12.10	14.18	17.2
29	Gran Canaria	ES	7.66	9.69	9.28	10.44	5.08	6.79	12.29	13.83	12.6
30	Praha / Ruzyně	CZ	5.55	10.72	11.51	11.87	3.65	4.37	10.71	13.79	28.7

NB: (*) 'Passengers carried' do not include direct transit passengers, i.e. transit passengers who stay on board the aircraft and continue their flight with the same flight number. Where the number of passengers carried was not available, the number of 'passengers on board' (i.e. incl. direct transit passengers) is given *in italics*.

2.4.4a Air – MAIN INTRA-EU AIRPORT PAIRS IN PASSENGER TRANSPORT

PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000								%
	AIRPORT PAIRS	2005	2010	2015	2020	2021	2022	2023	CHANGE '22/'23
1	Palma de Mallorca - Barcelona	1 689.3	1 532.5	1 576.1	820.7	1 220.5	2 033.2	2 280.9	12.2 %
2	Palma de Mallorca - Madrid / Barajas	1 641.5	1 698.9	1 411.2	793.8	1 140.8	1 877.9	2 037.8	8.5 %
3	Madrid / Barajas - Barcelona	4 358.3	3 083.8	2 251.7	754.1	1 013.0	1 715.6	1 931.7	12.6 %
4	Lisboa - Madrid / Barajas	742.3	1 172.0	1 175.2	415.5	572.9	1 538.3	1 858.0	20.8 %
5	Madrid / Barajas - Roma / Fiumicino	929.7	1 268.5	1 004.7	288.5	457.1	1 291.2	1 755.3	35.9 %
6	Paris / Orly - Nice / Côte d'Azur	2 262.6	2 100.3	2 112.9	833.9	1 392.1	1 835.3	1 660.5	-9.5 %
7	Las Palmas / Gran Canaria - Madrid / Barajas	1 388.1	1 553.7	1 305.7	638.1	937.1	1 431.0	1 604.9	12.2 %
8	Madrid / Barajas - Paris / Orly	964.3	1 105.9	1 169.1	460.8	707.7	1 371.5	1 595.4	16.3 %
9	Catania / Fontanarossa - Roma / Fiumicino	1 368.7	1 717.8	1 987.7	649.4	1 059.8	1 541.9	1 557.4	1.0 %
10	Lisboa - Paris / Orly	556.2	604.7	1 045.1	471.4	567.2	1 279.1	1 554.7	21.5 %
11	Athina / Eleftherios Venizelos - Thessaloniki	1 054.3	1 176.3	1 639.5	551.9	826.6	1 348.4	1 488.2	10.4 %
12	Barcelona - Roma / Fiumicino	595.5	688.5	1 190.6	282.9	355.0	952.6	1 487.9	56.2 %
13	Barcelona - Amsterdam / Schiphol	1 108.0	1 066.1	1 204.8	379.4	610.4	1 207.5	1 464.4	21.3 %
14	Toulouse / Blagnac - Paris / Orly	2 327.1	2 193.7	2 318.1	736.9	1 048.0	1 661.5	1 439.2	-13.4 %
15	Tenerife Norte - Madrid / Barajas	1 359.4	1 319.7	1 149.5	617.7	875.4	1 291.1	1 427.8	10.6 %
16	Palermo / Punta Raisi - Roma / Fiumicino	1 106.7	1 406.8	1 476.9	551.4	742.9	1 177.0	1 392.8	18.3 %
17	Lisboa - Madeira	828.0	865.9	822.1	384.1	630.3	1 224.5	1 351.9	10.4 %
18	Palma de Mallorca - Düsseldorf	980.5	911.9	1 214.0	283.5	697.0	1 290.9	1 314.9	1.9 %
19	Athina / Eleftherios Venizelos - Iraklion	769.5	819.2	723.0	434.6	567.6	986.8	1 243.6	26.0 %
20	Ibiza - Barcelona	843.0	737.1	938.8	473.5	762.4	1 101.0	1 241.6	12.8 %
21	Athina / Eleftherios Venizelos - Santorini	255.3	336.7	728.0	294.9	569.2	1 091.3	1 218.0	11.6 %
22	Athina / Eleftherios Venizelos - Larnaka	786.9	828.1	685.1	379.8	561.9	1 027.9	1 214.2	18.1 %
23	Stockholm / Arlanda - København / Kastrup	1 230.0	1 170.4	1 456.2	364.1	389.8	970.4	1 191.1	22.7 %
24	Dublin - Amsterdam / Schiphol	474.2	439.5	611.5	365.4	397.0	1 004.5	1 188.9	18.4 %
25	Lisboa - Barcelona	369.7	509.3	590.9	250.7	332.4	919.6	1 185.0	28.9 %
26	Frankfurt / Main - Berlin / Brandenburg (¹)	1 545.6	1 609.4	1 906.1	572.4	569.3	1 014.5	1 180.3	16.3 %
27	München - Hamburg	1 450.5	1 653.0	1 811.0	537.0	519.6	1 040.1	1 179.7	13.4 %
28	Paris / Charles de Gaulle - Nice / Côte d'Azur	909.2	789.0	806.1	744.2	698.2	1 078.3	1 174.4	8.9 %
29	Porto - Paris / Orly	360.7	518.8	761.5	366.0	436.3	931.2	1 125.4	20.9 %
30	København / Kastrup - Amsterdam / Schiphol	617.3	706.7	914.1	353.6	399.1	974.9	1 123.8	15.3 %

NB: (¹) Berlin-Brandenburg was opened for commercial flights in October 2020. Tegel Airport closed down its civil air traffic in November 2020 and transferred the corresponding traffic to the Berlin-Brandenburg Airport. Data up to 2020 refer to Berlin-Tegel.

Air – MAIN CONNECTIONS BETWEEN EU & NON-EU AIRPORTS IN PASSENGER TRANSPORT

TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000							%
	AIRPORT PAIRS	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
1	Paris / Charles de Gaulle - New York / J.F. Kennedy Intl. NY. USA	1 729.6	1 189.9	1 503.0	351.5	1 474.4	1 770.1	20.1 %
2	Dublin - London / Heathrow. UK	2 086.3	1 491.3	1 683.1	445.0	1 319.8	1 693.6	28.3 %
3	Madrid / Barajas - London / Heathrow. UK	1 073.3	1 088.9	1 320.8	454.5	1 184.9	1 471.9	24.2 %
4	Paris / Charles de Gaulle - Montreal / Pierre Elliot Trudeau Intl. CA	928.7	1 147.9	1 147.1	364.1	1 191.7	1 426.0	19.7 %
5	Amsterdam / Schiphol - London / Heathrow. UK	1 894.1	1 333.1	1 549.2	525.4	1 140.2	1 385.7	21.5 %
6	København / Kastrup - Oslo / Gardermoen. Norway	1 246.8	1 132.4	1 423.1	410.1	1 226.5	1 351.9	10.2 %
7	Madrid / Barajas - Bogota / Cundinamarca. Colombia		577.8	534.8	246.5	1 089.8	1 332.5	22.3 %
8	Frankfurt / Main - London / Heathrow. UK	1 522.5	1 259.8	1 523.4	409.2	1 039.7	1 326.5	27.6 %
9	Dublin - London / Gatwick. UK	626.3	842.7	1 086.9	341.9	1 156.2	1 279.5	10.7 %
10	Barcelona - London / Gatwick. UK	556.1	376.7	1 354.2	284.6	1 008.8	1 277.0	26.6 %
11	Düsseldorf - Antalya. Türkiye	802.4	683.7	1 012.6	186.5	1 049.6	1 236.7	17.8 %
12	Paris / Charles de Gaulle - Dubai Intl. United Arab Emirates	439.4	716.4	1 076.9	417.2	1 063.8	1 233.9	16.0 %
13	München - London / Heathrow. UK	913.7	970.4	1 225.1	315.1	929.1	1 202.6	29.4 %
14	Malaga - London / Gatwick. UK	978.6	910.4	1 069.1	179.3	882.5	1 121.1	27.0 %
15	Stockholm / Arlanda - Oslo / Gardermoen. Norway	936.6	1 006.6	1 336.2	308.6	927.2	1 107.5	19.4 %
16	Madrid / Barajas - Mexico. Mexico	454.1	519.6	598.7	268.3	907.3	1 086.9	19.8 %
17	Paris / Charles de Gaulle - London / Heathrow. UK		1 312.8	1 282.1	372.8	911.6	1 052.5	15.5 %
18	Lisboa - London / Heathrow. UK	622.0	730.4	768.0	300.8	913.3	1 045.9	14.5 %
19	Roma / Fiumicino - New York / J.F. Kennedy Intl. NY. USA	387.7	597.3	635.0	134.1	640.8	981.1	53.1 %
20	Dublin - Manchester. UK	648.3	553.8	862.8	254.5	814.4	971.1	19.2 %
21	Tenerife Norte - Manchester. UK	910.1	605.2	734.0	238.2	827.3	962.4	16.3 %
22	Paris / Charles de Gaulle - Istanbul / Havalimani. Türkiye (¹)	415.1	687.5	920.8	318.2	848.5	953.9	12.4 %
23	Frankfurt / Main - Istanbul / Havalimani. Türkiye (¹)	661.5	637.7	858.7	282.2	774.4	835.2	7.8 %
24	Madrid / Barajas - Lima Callao Jorge Chavez. Perou	299.4	507.5	498.6		438.6	835.2	90.4 %
25	Amsterdam / Schiphol - Istanbul / Havalimani. Türkiye (¹)	504.4	469.9	777.6	321.5	798.1	792.7	-0.7 %
26	Palma de Mallorca - Manchester. UK	743.3	509.1	676.7	64.4	720.4	782.8	8.7 %
27	Porto - Geneva. Switzerland	76.5	323.5	545.4	294.0	656.5	776.6	18.3 %
28	Paris / Charles de Gaulle - Tel-Aviv / Ben Gurion. Israel	607.7	709.5	785.6	182.2	757.3	762.8	0.7 %
29	Athina / Eleftherios Venizelos - Tel-Aviv / Ben Gurion. Israel	116.2	119.6	196.8	149.6	630.4	762.0	20.9 %
30	Madrid / Barajas - Miami Intl. FL. USA	346.6	407.4	603.3	163.6	689.4	758.5	10.0 %

NB: (¹) Istanbul / Ataturk airport was closed in course of 2019 and has been replaced by Istanbul / Havalimani airport.
Values up to column break refer to Ataturk airport.

2.4.5

Air – FREIGHT TRAFFIC AT MAJOR EU AIRPORTS

CARGO AND MAIL LOADED AND UNLOADED

RANKING	1 000 TONNES									CHANGE '22/'23
	AIRPORT		2000	2005	2010	2015	2020	2022	2023	
1	Paris / Charles de Gaulles	FR	1 067.0	1 217.8	1 290.9	2 090.6	1 740.0	1 893.9	1 881.5	-0.7
2	Frankfurt / Main	DE	1 703.4	1 950.6	2 270.2	2 075.7	1 911.3	1 967.3	1 868.1	-5.0
3	Leipzig / Halle	DE	13.7	12.3	637.8	982.5	1 377.4	1 507.9	1 391.3	-7.7
4	Amsterdam / Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 455.4	1 445.3	1 383.9	-4.2
5	Liège	BE	270.3	325.7	508.5	625.3	1 026.4	1 051.5	900.8	-14.3
6	Köln / Bonn	DE	438.3	646.8	638.2	739.5	841.7	957.8	858.8	-10.3
7	Luxembourg	LU	499.9	624.8	705.8	736.9	905.3	969.1	794.3	-18.0
8	Milano / Malpensa	IT	295.7	383.8	432.7	511.2	516.5	721.4	671.9	-6.9
9	Madrid / Barajas	ES	280.4	360.3	400.5	382.6	371.1	546.1	654.2	19.8
10	Brussel-Bruxelles / Brussels	BE	687.4	694.5	385.0	483.1	511.9	621.1	580.8	-6.5
11	München	DE	148.4	218.2	291.1	336.0	150.3	266.7	284.3	6.6
12	København / Kastrup	DK	419.4	355.1	138.1	196.6	159.9	239.9	226.9	-5.4
13	Roma / Fiumicino	IT	153.3	131.9	164.4	145.0	76.0	140.5	187.8	33.7
14	Wien / Schwechat	AT	65.9	180.0	231.8	209.1	154.7	176.1	178.4	1.3
15	Helsinki / Vantaa	FI	96.1	114.8	157.5	177.4	142.7	159.8	172.6	8.0
16	Lisboa	PT	114.6	100.0	105.2	100.8	96.0	164.2	167.6	2.1
17	Barcelona / El Prat	ES	75.5	94.5	105.9	102.2	94.0	141.9	154.3	8.7
18	Dublin	IE	35.5	64.1	105.3	137.3	123.2	142.4	152.8	7.3
19	Budapest / Liszt Ferenc	HU	43.5	55.5	65.3	65.8	88.9	133.8	142.7	6.7
20	Frankfurt / Hahn	DE	75.0	100.9	164.5	73.2	203.4	193.8	131.3	-32.2
21	Zaragoza	ES	3.2	3.8	42.1	65.1	90.1	100.4	129.4	28.9
22	Warszawa / Chopina	PL	44.6	31.1	57.1	72.3	82.1	111.2	113.6	2.1
23	Athinai / Eleftherios Venizelos	EL	123.4	101.4	84.0	58.1	71.1	114.7	98.0	-14.6
24	Stockholm / Arlanda	SE	154.0	158.0	99.4	90.7	86.7	102.0	91.1	-10.6
25	Paris / Orly	FR	107.3	80.0	53.8	126.3	62.2	73.7	74.2	0.7
26	Marseille / Provence	FR	36.0	51.0	58.6	55.2	52.3	41.5	54.4	31.0
27	Rzeszow / Jasionka	PL				7.2	0.3	44.4	53.3	19.9
28	Lyon / Saint-Exupéry	FR	27.4	38.7	35.2	51.4	44.9	52.1	49.4	-5.2
29	Praha / Ruzyně	CZ		51.6	58.2	50.5	52.6	47.7	43.8	-8.2
30	Bologna / Borgo Panigale	IT		7.8	28.2	30.8	34.6	42.9	41.1	-4.2

NB: Significant underreporting of Paris airports. Data from airport websites (*in italics*) often include air cargo which in reality is transported by lorry. The figures from airport websites are therefore not always fully comparable with those collected by Eurostat. The extraordinary growth rate for the Leipzig airport in 2008 is mainly due to DHL moving its hub there during 2008.

Air – AIRCRAFT TRAFFIC AT MAJOR EU AIRPORTS

2.4.6

COMMERCIAL AIR FLIGHTS (PASSENGERS, FREIGHT & MAIL)

RANKING	(not including general aviation)									1 000	%
	AIRPORT		2005	2010	2015	2020	2021	2022	2023	CHANGE '22/'23	
1	Paris / Charles de Gaulle	FR	543.8	477.9	468.5	205.9	240.9	394.1	446.2	13.2	
2	Amsterdam / Schiphol	NL	408.2	390.4	455.2	222.8	262.2	392.8	437.0	11.2	
3	Frankfurt / Main	DE	475.6	456.0	460.5	206.2	255.4	372.6	422.3	13.3	
4	Madrid / Barajas	ES	406.3	426.9	357.7	154.0	202.9	338.0	377.5	11.7	
5	Barcelona / El Prat	ES	294.3	268.5	279.0	114.1	152.6	272.1	310.1	13.9	
6	München	DE	382.3	368.2	365.7	135.7	140.7	269.9	288.3	6.8	
8	Roma / Fiumicino	IT	299.6	327.3	311.8	102.5	113.8	212.0	262.7	23.9	
7	Dublin	IE	169.6	156.4	188.8	80.5	82.5	199.5	229.8	15.2	
9	København / Kastrup	DK	262.1	240.6	250.2	95.1	106.6	197.3	222.1	12.5	
10	Lisboa	PT	125.9	136.9	162.8	87.3	112.5	197.4	221.8	12.3	
11	Wien / Schwechat	AT	227.5	243.0	224.8	94.1	110.3	186.9	219.3	17.4	
12	Athinai / Eleftherios Venizelos	EL	170.4	181.6	167.9	110.0	153.9	204.8	218.5	6.7	
13	Palma de Mallorca	ES	170.5	165.2	170.0	69.5	130.8	209.1	217.7	4.1	
14	Paris / Orly	FR	231.0	215.5	231.3	82.9	118.6	195.9	205.7	5.0	
15	Milano / Malpensa	IT	222.2	187.8	154.6	90.6	115.7	184.3	195.2	5.9	
16	Stockholm / Arlanda	SE	222.2	185.4	216.9	80.7	85.6	148.4	181.0	22.0	
17	Brussel-Bruxelles / Brussels	BE	228.7	205.2	221.1	85.7	107.4	166.1	180.4	8.6	
18	Berlin / Brandenburg	DE	46.5	65.5	67.5	36.6	95.0	153.1	166.5	8.8	
19	Warszawa / Chopina	PL	131.1	133.0	136.4	71.5	84.5	132.8	154.0	16.0	
20	Malaga / Costa del Sol	ES	111.1	97.3	101.0	51.1	79.4	131.0	151.0	15.3	
21	Düsseldorf	DE	189.0	211.4	202.8	71.8	74.8	132.1	143.6	8.7	
22	Nice / Côte d'Azur	FR	158.1	132.1	139.8	58.7	82.8	124.8	138.4	10.9	
23	Helsinki / Vantaa	FI	163.1	169.9	165.3	67.0	64.9	125.1	135.8	8.5	
24	Gran Canaria	ES	98.4	93.2	89.9	59.5	76.5	112.9	122.8	8.8	
25	Köln / Bonn	DE	139.9	120.6	114.8	69.0	79.1	107.9	107.0	-0.8	
26	Hamburg	DE	134.2	138.4	142.1	51.5	53.0	91.7	103.9	13.4	
27	Bucuresti / Henri Coanda	RO	90.2	128.1	90.8	46.2	65.0	93.3	103.8	11.2	
28	Praha / Ruzyně	CZ	150.2	147.9	120.1	41.9	46.0	83.8	102.1	21.8	
29	Porto	PT	45.3	54.6	68.6	42.3	52.1	89.2	100.8	13.0	
30	Bergamo / Orio al Serio	IT	47.8	65.3	74.3	36.1	49.3	86.2	98.8	14.6	
31	Alicante	ES	70.2	72.0	72.2	35.2	49.2	87.5	98.4	12.5	
32	Milano / Linate	IT	93.1	91.5	95.9	33.9	55.5	86.4	97.8	13.1	
33	Budapest / Liszt Ferenc	HU	116.7	99.6	86.0	41.2	43.7	86.2	95.6	10.9	
34	Marseille / Provence	FR	90.3	95.9	89.8	42.0	52.4	82.6	93.0	12.6	
35	Lyon / Saint-Exupéry	FR	130.1	115.4	105.0	42.5	51.6	77.0	86.0	11.7	
36	Napoli / Capodichino	IT	49.0	55.9	52.9	25.6	37.0	79.1	84.9	7.4	
37	Venezia / Tessera	IT	74.0	68.7	75.2	31.6	35.3	73.9	82.3	11.4	
38	Tenerife / Sur	ES	55.8	46.4	53.9	26.3	35.3	68.6	75.9	10.7	
39	Bologna / Borgo Panigale	IT	51.5	63.5	59.5	27.9	39.5	67.3	75.0	11.4	
40	Stuttgart	DE	135.0	111.7	105.0	40.4	40.0	65.1	73.9	13.4	

2.4.7 Sea – INWARD & OUTWARD FLOW OF PASSENGERS – BY COUNTRY

INWARDS

1 000	PASSENGERS			CRUISE PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise			on excursion		
	2021	2022	2023	2021	2022	2023	2021	2022	2023
EU-27	132 395	180 527	192 846	1 421	6 091	8 037			
BE	2	3	4	42	283	498			
BG	1	4	2				0		
CZ	-	-	-	-	-	-	-	-	-
DK	16 801	20 551	20 506	1	81	111	39	639	946
DE	9 477	12 810	12 798	284	1 006	1 435			
EE	4 144	5 876	6 427	0	0	0	63	171	164
IE	493	1 180	1 252		135	371		8	1
EL	26 004	34 728	36 909	132	336	576			
ES	9 143	14 305	14 048	272	1 307	1 820	1 658	5 540	8 370
FR	5 427	9 200	10 553	147	370	635	363	2 709	4 156
HR	13 541	16 453	16 860	2	42	51	244	868	1 214
IT	28 452	37 148	43 779	487	2 394	2 284	595	2 694	7 785
CY	4	5	7	11	4	7			
LV	118	174	188				2	78	83
LT	145	160	176				1	47	42
LU	-	-	-	-	-	-	-	-	-
HU	-	-	-	-	-	-	-	-	-
MT	4 452	5 695	6 577	10	72	106			
NL	450	988	1 003						
AT				-			-	-	-
PL	1 158	1 140	1 133	0	4	0		88	121
PT	524	641	971	6	49	102	140	1 046	1 493
RO									
SI	1	14	14				5	75	125
SK	-	-	-	-	-	-	-	-	-
FI	3 543	6 846	7 136	15			27	172	167
SE	8 514	12 606	12 501	12	9	41	181	264	509
IS	350	431	450		373	155	231	486	949
NO	844	2 583	2 568	1	138	39	27	480	710
ME	2	5					9	442	
TR	142	648	907	2	80	98			
UK									

NB: 'Cruise passenger' means a sea passenger making a sea journey on a cruise ship (passengers on day excursions are excluded). 'Cruise ship' is a ship intended to provide passengers with a full tourist experience; all passengers have a cabin.
'Cruise passenger on excursion' means a short visit by a cruise passenger to a tourist attraction associated with a port while retaining a cabin on board.

Sea – INWARD & OUTWARD FLOW OF PASSENGERS – BY COUNTRY

2.4.7

OUTWARDS

1 000	PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise		
	2021	2022	2023	2021	2022	2023
EU-27	132 118	180 250	192 276	1 365	5 623	7 627
BE	2	3	4	42	281	491
BG	3	3	3			
CZ	-	-	-	-	-	-
DK	16 711	20 477	20 487	1	81	110
DE	9 439	12 872	12 810	297	984	1 407
EE	4 070	5 873	6 424	0	0	0
IE	526	1 166	1 244			
EL	25 987	34 718	36 901	138	328	570
ES	9 180	14 391	14 044	286	1 314	1 818
FR	5 336	9 100	10 365	94	368	658
HR	13 533	16 430	16 828	3	41	51
IT	28 495	37 236	43 745	482	2 086	2 276
CY	4	5	7	11	4	5
LV	131	197	189			
LT	167	178	192			
LU	-	-	-	-		
HU	-	-	-	-	-	-
MT	4 452	5 695	6 577	8	71	104
NL	407	988	969			
AT	-	-	-	-	-	-
PL	1 158	1 186	1 118	0	5	0
PT	527	642	971	2	50	102
RO						
SI	1	15	14			
SK	-	-	-	-	-	-
FI	3 531	6 785	7 080			
SE	8 459	12 291	12 303	2	9	35
IS	350	434	450			
NO	879	2 978	2 896	0	12	10
ME	3	6				
TR	144	806	1 018	1	87	101
UK						

NB: 'Cruise passenger' means a sea passenger making a sea journey on a cruise ship (passengers on day excursions are excluded). 'Cruise ship' is a ship intended to provide passengers with a full tourist experience; all passengers have a cabin.
'Cruise passenger on excursion' means a short visit by a cruise passenger to a tourist attraction associated with a port while retaining a cabin on board.

2.4.8

Sea – PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000										%
	PORT		2000	2005	2010	2015	2020	2021	2022	2023	CHANGE '22 / '23
1	Messina	IT	11 898	9 802	10 765	7 021	7 737	8 251	9 854	10 932	10.9
2	Reggio di Calabria	IT	11 839	9 645	9 891	6 053	7 528	8 109	9 615	10 768	12.0
3	Peiraias	EL	7 289	11 076	10 944	8 169	4 370	5 972	8 271	9 579	15.8
4	Napoli	IT	6 748	6 084	8 356	6 484	5 318	4 628	7 302	9 549	30.0
5	Helsinki	FI	9 251	8 854	9 849	11 214	4 754	3 737	7 954	8 925	12.2
6	Palma de Mallorca	ES	1 864	4 817	4 496	5 496	3 726	5 816	7 680	8 208	6.9
7	Tallinn	EE		6 701	7 523	9 299	4 331	3 475	6 847	7 759	13.3
8	Calais	FR	15 066	11 695	10 237	9 757	3 269	2 388	5 142	7 264	41.3
9	Stockholm	SE	7 746	8 211	9 147	9 887	1 906	4 433	7 530	7 026	-6.7
10	Paloukia Salaminas	EL		11 663	12 705	7 050	5 730	5 964	7 093	6 719	-5.3
11	Perama	EL		11 663	12 705	7 050	5 730	5 964	7 093	6 719	-5.3
12	Mgarr. Gozo	MT		3 463	4 031	4 740	3 774	4 452	5 695	6 577	15.5
13	Olbia	IT	2 359	3 253	3 863	2 598	2 087	2 697	3 502	6 408	83.0
14	Helsingborg	SE	13 525	11 102	8 540	7 670	3 562	4 009	6 318	6 368	0.8
15	Helsingør (Elsinore)	DK	13 322	11 023	8 534	7 644	3 548	3 985	6 268	6 352	1.3
16	Santa Cruz de Tenerife	ES	4 927	4 249	4 110	4 320	2 964	4 281	5 405	5 906	9.3
17	Cirkewwa	MT		3 463	4 031	4 740	3 774	4 087	5 219	5 883	12.7
18	Algeciras	ES	4 261	4 829	4 663	5 519	1 546	1 337	4 423	5 584	26.2
19	Split	HR	1 952	3 267	3 523	3 992	2 523	3 745	4 711	5 012	6.4
20	Livorno	IT	1 886	2 103	2 782	2 001	1 743	2 426	3 113	4 912	57.8
21	Capri	IT	5 404	3 860	6 517	4 355	2 714	2 089	3 793	4 860	28.1
22	Rødby (Færgenhavn)	DK	5 430	6 761	6 261	6 139	2 331	2 686	4 519	4 722	4.5
23	Burgstaaken / Fehmarn ⁽¹⁾	DE	5 430	6 760	6 261	6 141	2 329	2 696	4 917	4 721	-4.0
24	Civitavecchia	IT	2 241	2 099	2 440	2 236	1 159	1 534	2 854	3 945	38.2
25	Barcelona	ES	1 424	1 575	2 358	2 327	728	1 171	2 898	3 636	25.5
26	Ischia ⁽²⁾	IT					2 645	2 048	3 225	3 517	9.1
27	Sjællands Odde	DK	2 283	2 310	1 777	2 690	2 506	3 081	3 267	3 356	2.7
28	Piombino	IT	3 161	3 277	3 477	3 517	2 594	2 870	3 218	3 268	1.6
29	Århus	DK	1 143	1 710	1 284	2 532	2 436	3 007	3 184	3 227	1.4
30	Palermo	IT	1 181	1 474	1 583	1 094	1 101	1 466	1 908	3 184	66.9
31	Rostock	DE	1 767	2 417	2 195	2 863	1 364	1 821	2 718	3 021	11.1
32	Igoumenitsa	EL	933	2 338	2 726	2 532	1 235	1 874	2 581	3 001	16.3
33	Isola d'Elba ⁽³⁾	IT	2 641	2 829	2 769	2 945	2 384	2 712	3 066	2 939	-4.1
34	Genova	IT	2 444	2 406	2 991	2 344	1 410	1 746	2 561	2 921	14.1
35	Kiel	DE	1 108	1 485	1 854	1 956	584	873	2 196	2 660	21.1
36	Kerkyra	EL	367	1 650	1 776	1 586	715	1 168	2 044	2 526	23.6
37	Zadar	HR	1 376	1 924	2 145	1 873	1 609	2 081	2 358	2 474	4.9
38	Ystad	SE	1 136	1 815	1 770	1 983	2 018	2 373	2 581	2 425	-6.0
39	Turku	FI	3 514	3 697	3 498	3 256	1 105	1 402	2 608	2 403	-7.9
40	Korcula	HR	453	1 133	1 474	1 672	1 122	1 679	2 132	2 360	10.7

NB: The Italian ports Ischia (containing Casamicciola, Forio and Porto D'Ischia), Isola d'Alba (containing Cavo, Porto Azzuro, Portoferraio and Rio Marina) and Egadi (containing Favignana, Levanzo and Marettimo) started reporting data as statistical ports in 2019.

⁽¹⁾ Until 2022, data were reported under Puttgarden port.

⁽²⁾ Data up to 2018 for Porto D'Ischia.

⁽³⁾ Data up to 2018 for Portoferraio.

Sea – FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

2.4.9

TONNES LOADED AND UNLOADED

RANKING	MILLION										%
	PORT		2000	2005	2010	2015	2020	2021	2022	2023	
1	Rotterdam	NL	302.5	345.8	395.8	431.4	398.7	428.9	427.2	401.6	-6.0
2	Antwerp-Bruges ⁽¹⁾	BE	116.0	145.8	160.0	190.1	206.3	215.9	254.3	242.2	-4.7
3	Hamburg	DE	77.0	108.3	104.5	120.2	109.2	111.2	103.4	99.6	-3.6
4	Amsterdam	NL	61.3	69.3	89.9	99.2	90.2	88.2	95.4	80.8	-15.4
5	Gdansk	PL		22.5	26.4	31.7	40.6	45.0	63.2	79.8	26.3
6	Algeciras	ES	38.3	55.2	58.6	79.4	88.5	83.1	81.2	79.5	-2.1
7	HAROPA (Le Havre and Rouen) ⁽²⁾	FR	86.5	92.4	92.3	85.2	72.4	78.2	79.1	75.6	-4.4
8	Marseille	FR	91.3	93.3	82.4	77.5	71.6	70.1	67.0	67.3	0.4
9	Constanta	RO		44.4	30.4	36.3	39.4	49.9	57.5	67.2	17.0
10	Valencia	ES	22.0	35.0	53.1	57.6	65.6	69.1	64.3	62.3	-3.1
11	Genova	IT	43.8	42.6	41.4	43.4	44.2	48.2	50.4	53.2	5.7
12	Barcelona	ES	25.8	37.1	35.3	38.0	48.8	53.6	57.4	51.5	-10.4
13	Trieste	IT	44.0	43.4	40.6	49.1	57.8	60.7	63.6	51.1	-19.8
14	Peiraias	EL	16.5	18.7	13.1	38.3	52.4	47.0	42.8	45.2	5.6
15	Sines	PT	20.0	24.9	24.7	41.2	38.9	42.9	41.6	39.8	-4.3
16	Bremerhaven	DE	24.8	33.7	45.9	49.8	46.6	46.8	42.8	39.2	-8.4
17	Cartagena	ES	17.2	26.7	19.0	32.4	32.6	30.9	36.3	37.4	3.1
18	Gioia Tauro	IT	21.6	29.6	35.4	26.1	24.2	25.7	27.3	36.6	34.2
19	Zeeland Seaports	NL				33.8	34.5	37.8	41.8	36.6	-12.6
20	Dunkerque	FR	44.3	48.5	36.3	36.9	35.1	38.8	40.4	35.4	-12.4
21	Livorno	IT	19.8	24.0	22.7	29.3	30.8	34.3	34.4	35.1	2.0
22	Göteborg	SE	33.3	36.5	42.9	37.8	38.5	36.8	40.0	35.0	-12.5
23	Tarragona	ES	27.2	30.7	32.1	32.8	26.2	30.9	28.8	32.2	11.8
24	Bilbao	ES	26.6	32.2	32.4	31.0	28.3	29.8	31.5	31.5	0.3
25	Gent (Ghent)	BE	24.7	22.1	27.6	26.1	29.4	31.7	32.8	30.0	-8.7
26	Wilhelmshaven	DE	43.4	46.0	24.7	27.4	27.8	30.4	31.8	29.8	-6.1
27	Huelva	ES	17.2	20.9	22.1	27.2	29.3	30.1	31.5	29.4	-6.8
28	Nantes Saint-Nazaire	FR	31.3	34.0	30.6	24.9	27.6	19.3	29.2	28.5	-2.5
29	Klaipeda	LT		20.0	28.9	34.4	43.7	41.4	31.8	28.2	-11.3
30	Augusta	IT	29.9	33.0	25.8	19.9	22.3	23.1	24.0	27.5	14.7
31	Ravenna	IT	22.5	24.3	22.2	25.3	27.1	31.1	32.6	27.0	-17.1
32	Gdynia	PL		11.0	12.3	15.4	21.2	22.7	23.1	25.8	12.1
33	Dublin	IE	15.9	19.2	19.5	22.2	25.2	24.5	25.6	24.7	-3.8
34	Agioi Theodoroi	EL	11.2	13.0	17.4	23.4	23.1	26.1	25.2	24.4	-3.3
35	Porto Foxi	IT	23.8	22.8	23.9	24.6	21.7	23.6	24.2	24.4	0.9
36	Rostock	DE	18.6	17.1	19.5	20.3	20.1	22.3	21.3	23.9	11.9
37	Sköldvik	FI	12.8	17.4	20.5	20.6	23.3	19.3	23.9	23.5	-1.5
38	Venezia	IT	26.3	30.5	26.2	25.1	24.3	26.3	26.9	23.5	-12.7
39	Koper	SI		12.5	14.6	19.9	18.3	20.1	22.4	21.1	-5.6
40	Las Palmas	ES	12.4	19.1	17.2	17.8	19.0	20.9	20.4	20.0	-2.1

NB: ⁽¹⁾ In 2022, the ports Antwerpen and Zeebrugge have been merged and the data are reported under the new port name Antwerp-Bruges. Values up to 2022 refer to the two ports.

⁽²⁾ In 2022, the ports Le Havre and Rouen merged and the data are reported under the new port name HAROPA. Values up to 2022 refer to the two ports.

2.4.10a

Sea – INTRA-EU

MARITIME TRANSPORT – BY COUNTRY

(1) RELEVANCE OF INTRA-EU TRANSPORT
IN TOTAL MARITIME TRANSPORT BY EU COUNTRY 2023

	INWARDS			OUTWARDS		
	total inwards	of which from EU	share of EU in total	total outwards	of which to EU	share of EU in total
	million tonnes	million tonnes	(%)	million tonnes	million tonnes	(%)
BE	146.4	39.5	26.9 %	126.6	32.9	26.0 %
BG	13.7	1.3	9.4 %	16.3	4.0	24.4 %
DK	52.3	33.0	63.1 %	30.9	23.6	76.4 %
DE	161.8	55.9	34.5 %	106.0	45.4	42.8 %
EE	8.9	7.4	82.7 %	13.2	11.3	85.9 %
IE	32.0	15.2	47.6 %	15.9	7.8	49.4 %
EL	95.1	43.0	45.3 %	76.7	47.4	61.8 %
ES	287.2	86.6	30.1 %	184.5	80.4	43.6 %
FR	184.1	43.3	23.5 %	82.8	28.3	34.2 %
HR	15.8	4.1	26.1 %	5.6	3.7	66.4 %
IT	328.2	147.2	44.8 %	189.8	145.3	76.5 %
CY (**)	7.1	4.8	68.0 %	1.7	0.3	18.8 %
LV	11.0	5.2	46.9 %	22.9	13.6	59.3 %
LT	20.1	7.3	36.2 %	17.1	9.9	57.9 %
MT	6.1	4.0	65.5 %	1.1	0.4	41.1 %
NL	380.8	53.7	14.1 %	164.3	34.9	21.2 %
PL	96.5	36.8	38.2 %	39.5	26.5	67.1 %
PT	51.3	21.1	41.1 %	30.8	15.0	48.8 %
RO (**)	27.6	3.0	11.0 %	41.1	11.4	27.7 %
SI	15.5	3.0	19.0 %	5.6	1.2	22.1 %
FI	48.1	32.9	68.4 %	45.5	35.8	78.7 %
SE	85.8	57.2	66.7 %	73.8	56.9	77.1 %

NB: Data from main ports only (ports handling more than 1 million tonnes per year).

(*) The total goods transported data may be less than the sum of inward and outward traffic due to the double counting of tonnes moved within the same country.

(**) The share of intra-EU in total maritime transport may be underestimated in this table for CY and RO because a significant share of partner ports are 'unknown' and hence cannot be attributed to any geographical area.

Sea – MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT

2.4.10b

(2) MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT 2023

	TOTAL			RANKING	country of loading port	country of unloading port	million tonnes transported
	total goods trans- ported (*)	of which to/from EU	share of EU in total				
	million tonnes	million tonnes	(%)				
				1	ITALY	ITALY	108.416
				2	SPAIN	SPAIN	38.806
BE	272.7	72.0	26.4 %	3	GREECE	GREECE	28.791
BG	30.0	5.3	17.5 %	4	FRANCE	FRANCE	21.723
DK	81.0	54.4	67.2 %	5	SWEDEN	SWEDEN	17.249
DE	263.3	96.7	36.7 %	6	SPAIN	ITALY	16.818
EE	22.0	18.6	84.6 %	7	SWEDEN	GERMANY	15.532
IE	47.0	22.2	47.3 %	8	GERMANY	SWEDEN	13.603
EL	143.1	61.7	43.1 %	9	ITALY	SPAIN	13.181
ES	437.2	132.5	30.3 %	10	DENMARK	DENMARK	12.785
FR	264.3	69.0	26.1 %	11	GERMANY	DENMARK	11.943
HR	20.9	7.3	35.1 %	12	FINLAND	GERMANY	11.650
IT	412.6	187.1	45.3 %	13	SWEDEN	FINLAND	11.239
CY (**)	8.7	5.1	58.7 %	14	DENMARK	GERMANY	10.273
LV	34.0	18.8	55.2 %	15	NETHERLANDS	FRANCE	10.171
LT	37.2	17.2	46.2 %	16	NETHERLANDS	GERMANY	9.807
MT	7.2	4.5	61.9 %	17	GREECE	ITALY	9.616
NL	543.7	87.2	16.0 %	18	NETHERLANDS	POLAND	8.978
PL	134.7	62.0	46.0 %	19	SPAIN	FRANCE	8.385
PT	76.0	30.0	39.5 %	20	NETHERLANDS	SPAIN	8.263
RO (**)	68.7	14.4	21.0 %	21	DENMARK	SWEDEN	8.200
SI	21.1	4.2	19.8 %	22	SPAIN	NETHERLANDS	8.143
FI	90.1	65.2	72.4 %	23	SWEDEN	POLAND	8.123
SE	156.7	111.2	71.0 %	24	ITALY	GREECE	7.881
				25	SWEDEN	DENMARK	7.874
				26	FINLAND	SWEDEN	7.733
				27	NETHERLANDS	SWEDEN	7.652
				28	SWEDEN	BELGIUM	7.612
				29	FINLAND	NETHERLANDS	6.873
				30	FRANCE	SPAIN	6.784

NB: Data from main ports only (ports handling more than 1 million tonnes per year); the tonnes have been calculated by taking the declarations of the unloading ports (inward declarations) and adding those outward declarations of partner ports for which the inward declarations were missing.

2.4.11

Sea – CONTAINER TRAFFIC AT MAJOR EU SEAPORTS

RANKING	1 000 TEU									%
	PORT									CHANGE '22 / '23
			2005	2010	2015	2020	2021	2022	2023	
1	Rotterdam	NL	9 194.6	11 017.5	11 669.0	14 118.6	14 791.4	13 932.8	13 057.5	-6.3
2	Antwerp-Bruges ⁽¹⁾	BE	6 903.2	9 581.1	9 763.2	12 547.7	13 040.2	12 256.1	11 438.0	-6.7
3	Hamburg	DE	8 084.3	7 905.5	8 847.9	8 577.6	8 799.2	8 350.1	7 743.1	-7.3
4	Gioia Tauro	IT	3 123.2	3 896.7	3 030.0	3 319.6	3 385.9	3 557.6	7 375.1	107.3
5	Piraeus	EL	1 401.1	850.3	3 359.6	5 202.0	4 731.0	4 462.0	4 825.8	8.2
6	Valencia	ES	2 415.2	4 211.2	4 608.7	5 413.2	5 586.7	5 034.8	4 780.7	-5.0
7	Algeciras	ES	3 179.8	2 772.7	4 515.8	5 107.9	4 799.5	4 767.3	4 733.5	-0.7
8	Bremerhaven	DE	3 696.1	4 858.3	5 466.8	4 766.7	5 013.6	4 603.7	4 228.1	-8.2
9	Barcelona	ES	2 071.4	1 928.0	1 950.1	2 949.8	3 522.0	3 516.2	3 268.9	-7.0
10	HAROPA ⁽²⁾	FR	2 306.3	2 499.2	2 663.1	2 238.4	3 129.2	3 099.1	2 615.9	-15.6
11	Genova	IT	1 037.6	1 020.0	2 079.1	2 491.3	2 664.1	2 593.4	2 419.8	-6.7
12	Gdansk	PL	63.3	509.9	1 041.3	1 623.0	1 846.1	1 823.8	2 155.9	18.2
13	Sines	PT	51.0	382.1	1 332.2	1 612.0	1 823.8	1 662.6	1 665.3	0.2
14	La Spezia	IT	915.6	1 180.6	1 578.9	1 333.0	1 268.7	1 052.6	1 663.1	58.0
15	Marseille	FR	910.6	1 030.9	1 255.8	1 717.1	1 454.4	1 521.7	1 471.8	-3.3
16	Las Palmas de Gran Canaria	ES	1 210.4	1 118.0	900.5	1 000.0	1 140.2	1 123.8	1 165.4	3.7
17	Klaipeda	LT	214.3	295.2	350.4	639.0	667.1	1 048.1	1 050.8	0.3
18	Koper	SI	210.3	481.0	802.7	918.1	961.3	975.7	1 047.8	7.4
19	Goteborg	SE	771.7	891.5	809.6	770.7	824.0	879.3	909.7	3.5
20	Gdynia	PL	392.9	477.0	676.4	890.3	984.1	943.6	880.2	-6.7
21	Constanta	RO	867.0	546.1	689.5	643.0	657.0	688.0	830.2	20.7
22	Napoli	IT	178.5	224.2	210.0	600.0	701.0	649.7	803.0	23.6
23	Dublin	IE	590.2	554.0	627.7	758.0	844.4	823.3	796.0	-3.3
24	Thessaloniki	EL	372.5	289.2	591.4	699.2	706.3	657.0	772.4	17.6
25	Trieste	IT	182.7	261.1	628.0	890.6	767.2	929.1	724.5	-22.0
26	Arhus	DK	397.2	446.3	445.2	622.7	718.7	756.7	673.8	-11.0
27	Dunkerque	FR	201.6	200.8	292.1	474.4	652.2	736.0	664.3	-9.7
28	Livorno	IT	461.4	369.9	652.8	1 165.1	938.8	823.4	647.6	-21.3
29	Leixoes	PT	351.8	481.8	568.3	638.1	649.0	646.3	647.1	0.1
30	Hamina Kotka ⁽³⁾	FI	532.1	517.5	487.4	584.3	558.2	567.1	568.5	0.2
31	Wilhelmshaven	DE	2.7	0.0	611.0	422.3	710.7	659.3	511.1	-22.5
32	Santa Cruz de Tenerife	ES	416.9	308.6	310.4	313.0	410.8	479.7	508.3	6.0
33	Bilbao	ES	862.8	532.0	627.9	485.8	538.9	497.0	492.3	-1.0
34	Riga	LV	157.8	254.6	355.4	458.2	422.5	456.0	430.4	-5.6
35	Helsinki	FI	460.2	400.7	411.1	474.3	427.4	453.1	419.6	-7.4
36	Lisboa	PT	512.2	512.0	482.6	300.2	360.1	386.6	411.5	6.4
37	Rijeka	HR	76.1	121.1	152.7	310.1	337.8	396.9	409.3	3.1
38	Moerdijk	NL	20.9	117.9	279.1	410.3	430.9	452.8	407.7	-10.0
39	Venezia	IT	196.0	237.7	476.0	347.0	217.4	296.2	374.8	26.5
40	Lemesos (Limassol)	CY	320.8	332.5	308.4	360.4	319.1	340.0	359.8	5.8

NB: ⁽¹⁾ In 2022 the ports of Antwerpen and Zeebrugge merged into a single legal entity.
⁽²⁾ In 2022, the ports of Le Havre and Rouen merged into a single legal entity.
⁽³⁾ In 2011 the ports of Hamina and Kotka merged into a single legal entity.

Combined transport traffic

2.4.12

UIRR COMPANIES

TONNE-KILOMETRES				
YEAR	Billion	% of which:		
		< 300 km	300 - 900 km	> 900 km
1990	18.7	1 %	68 %	31 %
1995	25.0	2 %	56 %	42 %
2000	35.2	2 %	71 %	27 %
2005	38.8	3 %	63 %	34 %
2010	42.4	5 %	58 %	37 %
2011	42.6	7 %	56 %	37 %
2012	39.1	3 %	59 %	38 %
2013	40.7	2 %	60 %	38 %
2014	52.2	2 %	53 %	45 %
2015	55.0	1 %	50 %	49 %
2016	58.3	1 %	46 %	53 %
2017	75.1	1 %	42 %	57 %
2018	83.6	2 %	45 %	54 %
2019	83.5	1 %	51 %	48 %
2020	90.3	1 %	49 %	50 %
2021	100.2	1 %	48 %	51 %
2022	88.5	1 %	52 %	46 %
2023	80.2	0 %	47 %	53 %
2024	67.3	2 %	38 %	60 %

TRAFFIC % OF CONSIGNMENTS (*)			
YEAR	Semi-trailers	Rolling motorway	Swap bodies and containers
1990	20 %	18 %	61 %
1995	14 %	19 %	67 %
2000	9 %	23 %	68 %
2005	7 %	13 %	80 %
2010	10 %	15 %	75 %
2011	10 %	14 %	76 %
2012	13 %	5 %	82 %
2013	14 %	5 %	81 %
2014	13 %	5 %	82 %
2015	13 %	5 %	82 %
2016	16 %	4 %	80 %
2017	11 %	8 %	81 %
2018	15 %	6 %	81 %
2019	15 %	6 %	80 %
2020	15 %	5 %	80 %
2021	14 %	5 %	80 %
2022	16 %	4 %	80 %
2023	15 %	4 %	81 %
2024	13 %	3 %	83 %

NB: (*) Consignment = equivalent to 2.0 TEU, meaning:

- one semi-trailer;
- two swap bodies less than 8.30 m and under 16t;
- one swap body more than 8.30 m or over 16t;
- one vehicle on the rolling motorway (RoLa).

From 2012 to 2016, figures exclude traffic from RoLa operators.

From 2013 figures include traffic of new members TEL and FELB.

From 2015 figures include RCO CZ.

From 2017 figures include RCO (full), Metrans, Lugo, Amber Rail and Baltic Rail.

From 2018 figures include CargoBeamer and VIIA.

From 2024 figures exclude Kombiverkehr and Lineas.

2.4.13

Road

ALPS CROSSING FREIGHT TRAFFIC

ALPINE ARC: MONTGENÈVRE TO BRENNER

MILLION TONNES					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
1985	1.9	0.8	15.0	12.3	30.0
1990	3.1	1.1	14.6	21.8	40.6
1995	5.5	1.1	21.0	25.8	53.4
2000	7.6	1.3	26.6	27.2	62.7
2005	10.2	2.8	33.6	20.8	67.4
2010	10.8	3.5	28.7	20.2	63.2
2011	10.6	3.8	29.3	20.7	64.4
2012	10.0	3.6	30.5	19.5	63.6
2013	9.3	3.5	30.1	18.8	61.7
2014	9.1	3.3	31.3	19.0	62.8
2015	8.7	3.3	32.2	19.5	63.7
2016	8.4	3.3	34.6	19.8	66.2
2017	8.6	3.1	37.3	21.2	70.2
2018	8.4	3.3	39.8	21.9	73.4
2019	7.3	2.9	40.8	21.1	72.1
2020	7.1	2.7	38.2	19.3	67.3
2021	7.4	2.6	40.5	21.9	72.5
2022	7.7	2.8	41.1	22.1	73.7
2023	7.3	3.0	39.6	21.7	71.6
AVERAGE ANNUAL CHANGE					
'85/'00	9.7 %	3.3 %	3.9 %	5.4 %	5.0 %
'00/'23	-0.2 %	3.7 %	1.7 %	-1.0 %	0.6 %
'22/'23	-4.8 %	8.0 %	-3.8 %	-2.0 %	-2.9 %

NB: France: Montgenèvre: from 1999 to 2018.

NUMBER OF HEAVY GOODS VEHICLES (1 000)					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
2000	1 187	217	1 653	1 672	4 729
2005	925	279	2 121	1 435	4 760
2010	928	308	1 947	1 356	4 539
2011	898	322	1 980	1 389	4 589
2012	843	307	2 058	1 307	4 516
2013	766	282	2 028	1 264	4 341
2014	758	274	2 112	1 276	4 420
2015	730	280	2 160	1 307	4 477
2016	701	274	2 315	1 330	4 620
2017	698	257	2 453	1 419	4 827
2018	677	264	2 602	1 472	5 014
2019	643	255	2 660	1 400	4 958
2020	628	234	2 465	1 277	4 604
2021	662	234	2 627	1 448	4 970
2022	678	250	2 668	1 466	5 061
2023	645	271	2 572	1 436	4 924

NB: Internal, import, export and transit traffic.

Since 2019 no data available on the traffic at Montgenèvre.

Road

PYRENEES CROSSING TRAFFIC

2.4.14

GOODS TRAFFIC

VEHICLES PER DAY				
	West coast Irun Biriattou	East coast La Jonquera Le Perthus	Other crossings	TOTAL
2000	8 224	8 200	1 519	17 943
2001	8 806	8 050	1 172	18 028
2002	8 864	8 535	1 505	18 904
2003	9 276	8 920	1 758	19 954
2004	10 655	9 302	1 875	21 832
2005	9 970	9 243	1 825	21 038
2006	10 390	9 602	1 939	21 931
2008	10 670	9 484	1 334	21 488
2009	9 712	8 610	1 367	19 688
2011	9 414	8 945	1 316	19 674
2013	9 165	9 163	1 307	19 634
2014	8 605	9 501	1 242	19 348
2015	9 280	10 066	1 387	20 733
2016	10 745	10 097	1 454	22 295
2017	10 170	10 463	1 243	21 876
2018	10 480	10 907	1 508	22 894
2019	10 640	11 099	1 317	23 055
2020	10 070	7 797	1 204	19 071
2021	10 900	11 560	1 333	23 793
2022	10 870	11 937	1 537	24 344

PASSENGER CAR TRAFFIC

VEHICLES PER DAY				
	West coast Irun Biriattou	East coast La Jonquera Le Perthus	Other crossings	TOTAL
2000	40 923	24 390	31 962	97 275
2001	41 847	25 201	34 096	101 144
2002	41 812	28 544	37 654	108 010
2003	44 165	29 201	41 267	114 633
2004	45 041	30 923	41 196	117 160
2005	47 142	31 896	42 465	121 503
2006	47 172	32 180	43 228	122 580
2008	47 266	30 847	41 924	120 037
2009	47 907	31 465	42 452	121 823
2011	48 787	30 900	40 508	120 194
2013	47 110	30 529	38 612	116 250
2014	48 780	31 623	40 190	120 593
2015	49 150	32 458	41 496	123 104
2016	47 421	33 049	40 611	121 080
2017	50 130	33 441	44 587	128 158
2018	51 260	33 559	46 421	131 239
2019	44 200	35 033	45 014	124 247
2020	32 180	15 290	30 684	78 153
2021	34 750	30 410	41 480	106 640
2022	46 850	37 343	44 123	128 316

NB: Between 2006 -2013, these statistics were available every two years.

2.4.15

Rail – TRAFFIC MEASURED IN TRAIN-KILOMETRES

million train-km							%	Of which: % of passenger traffic	Of which: % of freight traffic
	2005	2010	2015	2020	2022	2023	CHANGE '22/'23	2023	2023
EU-27	3 485.3	3 461.5	3 579.1	3 334.1	3 712.0	3 712.3	0.0	81.4	18.5
BE	92.6	95.1	95.2	92.7	111.2	111.1	-0.1	84.6	15.4
BG	33.5	29.3	28.6	28.1	29.9	28.6	-4.0	69.8	30.2
CZ	147.7	155.1	157.3	167.0	168.5	171.4	1.7	82.6	17.4
DK	75.0	78.3	78.8	76.2	79.8	78.9	-1.2	96.5	3.5
DE	986.7	992.4	1 032.6	1 049.8	1 116.5	1 120.7	0.4	77.9	22.1
EE	8.9	7.4	8.0	6.6	6.9	7.4	8.4	81.0	19.0
IE	16.0	18.3	18.2	15.0	18.2	18.6	2.5	99.0	1.0
EL	17.7	17.0	10.8	8.5	10.1	6.6	-34.4	92.0	8.0
ES	199.4	206.0	209.1	158.2	195.6	211.8	8.2	89.2	10.8
FR	505.8	458.0	460.0	338.7	437.1	418.5	-4.2	87.5	12.5
HR	26.1	25.8	19.7	18.6	19.4	18.8	-3.4	71.7	28.3
IT	373.3	356.1	366.4	319.5	394.6	399.7	1.3	87.1	12.9
CY	-	-	-	-	-	-	-	-	-
LV	18.9	16.6	17.2	10.7	10.4	9.4	-9.8	69.1	30.9
LT	14.3	14.4	14.0	15.6	11.5	11.0	-4.5	57.2	42.8
LU	7.6	8.0	8.9	7.4	7.5	7.7	2.8	94.7	5.3
HU	102.8	100.6	164.8	123.0	113.1	113.1	0.0	82.0	18.0
MT	-	-	-	-	-	-	-	-	-
NL	133.8	139.1	149.4	148.8	148.6	143.7	-3.3	94.2	5.8
AT	143.9	151.8	153.4	153.3	170.6	173.7	1.8	76.1	23.9
PL	207.2	211.7	204.6	224.2	256.9	262.5	2.2	70.1	28.2
PT	37.7	40.0	37.1	33.3	35.7	33.5	-6.1	83.6	16.4
RO	94.5	86.3	79.9	77.6	83.4	82.9	-0.5	77.8	22.2
SI	18.6	18.6	17.7	16.0	19.6	19.2	-1.8	59.4	40.6
SK	47.3	44.0	46.0	46.2	49.0	51.6	5.5	76.4	23.6
FI	48.2	51.0	48.6	47.7	48.5	47.4	-2.2	73.6	26.4
SE	127.7	140.6	152.7	151.4	169.5	164.4	-3.0	77.7	22.3
IS	-	-	-	-	-	-	-	-	-
NO	41.1	43.8	48.6	44.7	49.8	49.6	-0.4	84.1	15.9
CH	0.0	210.5	222.7	221.5	236.3	240.1	1.6	88.6	11.4
BA			4.0	2.9	3.7	3.3	-9.7	37.0	63.0
ME			1.4	1.1	1.1	1.1	0.0		
MD		0.8	0.7	0.6	1.0	0.7	-30.0	0.1	99.9
MK		2.8	2.2	1.4	1.3	0.9	-35.4	68.7	31.3
GE				4.5	5.6	5.6	0.2	41.9	55.7
AL				0.1	0.1	0.1	16.0	20.3	62.4
RS		23.0	22.2	12.7	13.3	12.5	-5.8	64.0	36.0
TR	44.9	38.8	41.9	40.2	50.9	45.5	-10.7	53.0	47.0
UA			204.8	183.4					
UK	491.4	544.0	569.8	485.5	498.3	526.7	5.7	93.9	6.1

Rail – DEGREE OF MARKET OPENING – PASSENGERS

2.4.16a

SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

	%					Of which: Market share PSO (*)	Of which: Market share Commercial
	2010	2015	2020	2021	2022	2022	2022
BE	0.2 %	3.3 %	2.2 %	7.7 %	10.9 %	0.0 %	60.6 %
BG	2.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CZ	0.2 %	5.0 %	14.5 %	16.3 %	17.4 %	13.4 %	64.0 %
DK	18.0 %	7.0 %	9.8 %	10.5 %	9.7 %	9.7 %	
DE	8.0 %	13.5 %	20.7 %	22.2 %	20.1 %	33.1 %	4.3 %
EE	50.0 %	0.0 %	0.7 %	0.0 %	0.0 %	0.0 %	0.0 %
IE	0.0 %		0.0 %	0.0 %	0.0 %	0.0 %	100.0 %
EL	0.0 %	0.0 %	1.6 %	5.9 %	0.0 %	0.0 %	
ES	0.0 %	0.0 %	0.1 %	2.1 %	6.8 %	0.1 %	11.5 %
FR	1.0 %	5.0 %	1.3 %	1.0 %	2.2 %	0.0 %	3.7 %
HR	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
IT	8.3 %	23.0 %	28.7 %	33.5 %	35.6 %	26.1 %	45.6 %
CY	-	-	-	-	-	-	-
LV	10.5 %	8.3 %	1.1 %	0.1 %	0.1 %	0.1 %	0.0 %
LT	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
LU		0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
HU	1.8 %	3.5 %	0.3 %	0.4 %	1.7 %	0.0 %	63.3 %
MT	-	-	-	-	-	-	-
NL	4.8 %	14.9 %	5.0 %	6.0 %	7.0 %	7.0 %	0.0 %
AT	5.4 %	12.2 %	9.7 %	10.0 %	14.5 %	7.1 %	21.9 %
PL	48.3 %	51.7 %	46.3 %	46.0 %	76.5 %	80.8 %	25.8 %
PT	9.0 %	5.4 %	5.2 %	5.0 %	8.5 %	10.0 %	0.0 %
RO	3.9 %		12.3 %	12.0 %		8.6 %	
SI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SK	0.0 %	6.0 %	9.9 %	9.0 %	4.7 %	0.0 %	97.2 %
FI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SE		33.5 %	49.7 %	38.6 %	43.1 %	64.0 %	15.0 %
NO	12.0 %	10.7 %	24.5 %	24.5 %	35.9 %	35.9 %	22.4 %

NB (*) Public Service Obligation (PSO) means a requirement defined or determined by a competent authority in order to ensure public passenger transport services in the general interest that an operator, if it were considering its own commercial interests, would not assume or would not assume to the same extent or under the same conditions without reward.

Total market share of all but the principal railway undertakings (as a percentage of passenger-km, in some cases as a percentage of train-km).

DK: not considering metro services after break in series.

2.4.16b

Rail – DEGREE OF MARKET OPENING – FREIGHT

SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

	%								
	2010	2015	2016	2017	2018	2019	2020	2021	2022
BE	11.8	25.1	48.6	27.1	18.2	19.2	35.5	42.0	43.7
BG	21.6	51.4	54.5	58.6	52.7	42.8	45.7	54.7	59.3
CZ	13.2	33.5	34.9	36.8	35.1	39.8	41.3	43.6	41.4
DK	25.0	29.0	26.1	17.7	26.3	38.0	36.8	21.9	21.7
DE	25.0	40.9	45.5	47.5	51.3	54.0	54.7	57.6	59.7
EE	45.0	29.0	20.1	23.7	1.4	0.0	0.2	0.9	3.1
IE	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL		0.0	0.0	0.0	0.0	3.0	3.0	3.4	4.6
ES	8.1	26.0	29.5	30.8	34.3	37.0	38.3	41.0	48.5
FR	20.0	25.6	41.0	43.0	46.0	47.0	47.6	51.0	50.4
HR	0.0	2.0	14.7	23.9	32.0	38.0	45.6	45.9	47.0
IT	24.1	41.2	55.1	55.4	57.0	57.0	59.2	62.4	63.0
CY	-	-	-	-	-	-	-	-	-
LV	23.3	31.1	25.5	33.6	31.6	31.0	24.4	29.7	30.0
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6
LU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HU	19.5	39.6	42.1	47.5	50.6	51.0	55.0	54.9	55.3
MT	-	-	-	-	-	-	-	-	-
NL	40.0		45.0	56.5	59.0	51.0	58.0	53.0	53.0
AT	14.6	23.6	26.1	24.5	30.7	32.0	33.1	36.6	39.2
PL	35.8	38.1	48.6	42.9	45.9	50.7	54.5	54.1	55.7
PT	9.0	11.8	15.4	14.2	13.6	17.9	19.3		
RO	54.7	60.2	62.9	63.4	63.9	71.0	78.4	78.4	
SI	0.0	12.1	13.0	13.3	14.8	16.8	18.8	22.2	20.2
SK	2.0	17.6	19.9	22.1	24.6	27.8	29.5	29.1	
FI	0.0	0.0	0.1	0.4	1.3	2.0	2.2	4.4	4.0
SE	40.0	48.0	46.0	46.0	48.0	51.0	51.0	51.1	51.0
NO	25.0	42.2	49.8	51.1	51.5	56.0	55.8	55.1	55.7

NB: Total market share of all but the principal railway undertakings
(as a percentage of tonnes-km, in some cases as a percentage of train-km).

Rail

2.4.17

ALPS CROSSING FREIGHT TRAFFIC

ALPS CROSSING FREIGHT TRAFFIC

Alpine Arc: Mont-Cenis to Brenner					MILLION TONNES
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon	Brenner	Mont-Cenis	
1985	11.2	2.8	4.7	7.5	26.2
1990	13.6	4.3	5.5	7.2	30.6
1994	13.2	4.7	8.3	7.7	33.9
1995	13.6	4.4	8.4	8.0	34.4
1996	11.7	4.0	7.9	9.7	33.3
1997	13.7	4.3	7.8	10.1	35.9
1998	15.0	4.3	8.6	9.3	37.2
1999	14.9	3.5	8.3	8.4	35.1
2000	16.8	3.8	8.7	8.6	37.9
2001	15.8	4.8	10.7	8.6	39.9
2002	14.2	4.8	10.5	8.6	38.1
2003	14.3	5.6	10.7	7.8	38.4
2004	16.1	6.8	10.7	6.4	40.0
2005	15.6	8.1	10.0	5.2	38.9
2006	16.2	9.0	11.6	4.8	41.6
2007	15.5	9.7	13.3	5.7	44.2
2008	15.5	9.9	14.0	4.6	44.0
2009	11.6	9.2	13.1	2.4	36.3
2010	14.4	9.6	14.4	3.0	41.4
2011	14.4	11.3	14.1	3.4	43.2
2012	13.9	9.8	11.2	3.4	38.3
2013	15.0	10.1	11.7	3.2	40.1
2014	15.6	10.5	11.9	3.3	41.3
2015	15.3	11.7	12.6	3.2	42.7
2016	15.3	13.5	13.4	2.9	45.2
2017	13.6	13.6	13.8	2.7	43.7
2018	15.3	12.6	14.0	2.6	44.6
2019	15.1	11.5	13.8	2.9	43.3
2020	15.3	9.7	13.6	2.4	41.0
2021	17.9	10.4	14.9	2.7	45.9
2022	19.6	8.7	14.7	2.3	45.3
2023	18.1	8.5	12.9	1.4	40.9
AVERAGE ANNUAL CHANGE					
'85/'00	2.7%	2.1%	4.2%	0.9%	2.5%
'00/'23	0.3%	3.6%	1.7%	-7.7%	0.3%
'22/'23	-7.6%	-2.0%	-12.1%	-41.0%	-9.7%

2.5.1

Road

LENGTH OF MOTORWAYS

	km (at end of year)							
	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	38 695	44 874	51 501	59 208	67 279	71 585	74 830	76 504
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763	1 763
BG	273	277	324	331	437	734	806	840
CZ	357	414	499	564	734	776	1 298	1 388
DK	611	796	953	1 010	1 128	1 237	1 354	1 355
DE	10 854	11 190	11 712	12 363	12 819	12 993	13 192	13 210
EE	41	65	93	99	115	147	199	225
IE	26	70	103	247	900	916	995	995
EL	190	421	615	917	1 558	1 589	2 145	2 296
ES	4 693	6 962	9 049	11 432	14 262	15 336	15 752	15 886
FR	6 824	8 275	9 766	10 800	11 392	11 599	11 660	11 751
HR	291	302	411	1 016	1 244	1 310	1 310	1 341
IT	6 193	6 435	6 478	6 542	6 668	6 943	6 978	7 558
CY	154	168	240	276	257	257	257	271
LV	-	-	-	-	-	-	-	-
LT	370	394	417	417	309	309	400	462
LU	78	123	114	147	152	161	165	167
HU	267	335	448	636	1 477	1 621	1 774	1 871
MT	-	-	-	-	-	-	-	-
NL	2 092	2 208	2 265	2 600	2 646	2 730	2 789	2 793
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 749	1 749
PL	257	246	358	552	857	1 559	1 712	1 851
PT	316	687	1 482	2 341	2 737	3 065	3 065	3 113
RO	113	113	113	228	332	747	920	997
SI	228	277	382	569	607	610	616	616
SK	192	198	296	328	416	463	818	865
FI	225	394	549	693	779	881	933	948
SE	939	1 262	1 499	1 677	1 971	2 119	2 179	2 194
IS	-	-	-	11	11	11	41	41
NO	73	107	144	264	381	392	580	637
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 544	1 549
BA							218	231
ME	-	-	-	-	-	-	-	-
MD		-	-	-	-	-	-	-
MK	83	138	144	216	251	259	335	335
GE							234	263
AL							22	25
RS				603	603	693	928	963
TR	281	1 246	1 726	1 667	2 080	2 282	3 523	3 726
UA								
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 838	3 864

NB: CZ: as from 2016 most of expressways have been changed into class II motorways.

ES: 'autopistas de peaje' and 'autovías y autopistas libres'.

CY: from 2006: without urban M-ways.

NL: all national roads ('Rijkswegen') with dual carriageways.

UK: data refer to the 1st of April.

Road

LENGTH OF ROAD NETWORK

2.5.2

km (at end of 2023) (*)			
	Motorways	Main or national roads	Secondary or regional roads Other roads (**)
BE	1 763	13 229	1 349 138 869
BG	840	2 879	4 019 12 230
CZ	1 388	5 747	48 729 74 919
DK	1 355	2 606	70 985
DE	13 210	37 746	86 704 91 900
EE	225	3 746	13 011 48 822
IE	995	5 434	13 448 83 533
EL	2 296	14 210	33 013 75 600
ES	15 886	14 728	67 994 501 053
FR	11 751	9 474	379 091 711 378
HR	1 341	7 256	9 396 8 502
IT	7 558	30 045	132 234 68 901
CY	271	5 470	2 474 5 083
LV	-	19 879	29 467 8 559
LT	462	6 676	14 527 51 678
LU	167	851	1 894 19
HU	1 871	30 756	188 127
MT	-	2 841	
NL	2 793	2 793	8 004 128 455
AT	1 749	10 260	23 553 92 204
PL	1 851	19 473	153 808 255 081
PT	3 113	6 435	4 791
RO	997	16 680	35 046 33 665
SI	616	5 929	32 423
SK	865	3 335	3 615 38 139
FI	948	13 467	13 452 50 885
SE	2 194	13 528	139 925 43 606
IS	41	4 912	3 457 4 580
NO	637	10 539	44 776 40 047
CH	1 549	710	17 203 65 406
BA	231		9 221
ME	-		9 912
MD	-	5 955	3 520
MK	335	897	3 794 10 211
GE	263		40 044
AL	25		3 606
RS	963	13 523	31 884
TR	3 726	30 864	34 064 192 502
UA		46 639	53 999 63 575
UK	3 864	49 918	33 243 364 650

NB: (*) BE: end of 2015; EL: 2018 (other roads); LU: 2018 (other roads); IT: 2022; GE, UA: 2021.

(**) The definition of road types varies from country to country, the data are therefore not fully comparable. DE: local roads are excluded. CY: other road network includes forest gravel roads.
CY: other road network includes forest gravel roads.

Sources: Eurostat [road_if_roadsc], national sources (BG, EE, LT, AT, PT, FI, IS, UK), UNECE (UA), IRF (EL, IS, LU), estimates (in italics)

2.5.3

Railways

LENGTH OF LINES IN USE

								km	%
	1990	2000	2005	2010	2015	2020	2023	OF WHICH: ELECTRIFIED 2023	
EU-27	218 600	203 206	202 700	203 952	201 552	202 271	200 947	115 443	57.4
BE	3 479	3 471	3 544	3 582	3 607	3 615	3 629	3 195	88.0
BG	4 299	4 320	4 154	4 098	4 019	4 029	4 029	3 001	74.5
CZ	9 451	9 444	9 614	9 568	9 566	9 542	9 514	3 277	34.4
DK	2 858	2 787	2 646	2 606	2 552	2 485	2 448	831	33.9
DE	44 050	36 588	38 206	38 750	38 631	38 800	38 691	21 222	54.8
EE	1 026	968	1 055	1 196	1 164	1 167	1 171	140	12.0
IE	1 944	1 919	1 834	1 835	2 045	2 045	2 045	53	2.6
EL	2 484	2 385	2 576	2 552	2 240	2 345	1 822	738	40.5
ES	12 560	12 310	12 839	13 853	15 384	16 135	16 114	10 716	66.5
FR	34 491	31 629	31 104	30 568	29 041	27 892	27 617	16 802	60.8
HR	2 444	2 726	2 726	2 722	2 604	2 617	2 617	1 013	38.7
IT	16 066	15 974	16 225	16 704	16 724	16 782	16 832	12 205	72.5
CY	-	-	-	-	-	-	-	-	-
LV	2 397	2 331	2 270	1 897	1 860	1 859	1 831	251	13.7
LT	2 007	1 905	1 771	1 768	1 877	1 911	1 924	152	7.9
LU	271	274	275	275	275	271	271	262	96.7
HU	7 772	7 668	7 685	7 352	7 197	7 787	7 437	3 368	45.3
MT	-	-	-	-	-	-	-	-	-
NL	2 780	2 802	2 810	3 013	3 031	3 041	3 041	2 267	74.5
AT	5 624	5 563	5 691	5 828	5 522	5 607	5 577	4 119	73.9
PL	26 228	22 560	20 253	20 228	19 231	19 383	19 539	12 205	62.5
PT	3 126	2 814	2 839	2 843	2 546	2 526	2 527	1 791	70.9
RO	11 348	11 015	10 948	10 785	10 770	10 769	10 611	4 032	38.0
SI	1 196	1 201	1 228	1 228	1 209	1 209	1 208	605	50.1
SK	3 660	3 662	3 658	3 622	3 626	3 627	3 631	1 585	43.7
FI	5 846	5 854	5 732	5 919	5 923	5 918	5 915	3 424	57.9
SE	11 193	11 037	11 017	11 160	10 908	10 909	10 906	8 189	75.1
IS	-	-	-	-	-	-	-	-	-
NO	4 044	4 179	4 114	3 958	3 896	3 885	3 903	2 509	64.3
CH	4 908	5 032	5 040	5 124	5 205	5 303	5 318	5 309	99.8
BA	944	1 031	1 000	1 027	1 027	1 018	1 025	755	73.7
ME					249	251	251	227	90.5
MD	1 150	1 139	1 075	1 157	1 151	1 150	1 151	0	0.0
MK	696	699	699	699	699	683	683	234	34.3
GE	1 586	1 562			1 180	1 114	1 114	1 097	98.4
AL	674	400	406	368	379	204	253	0	0.0
RS				3 809	3 766	3 354	3 382	1 304	38.6
TR	8 429	8 671	8 697	9 594	10 131	10 378	11 417	6 454	56.5
UA	22 799	22 302	22 219	22 219	20 954	19 790		9 332	
UK	16 924	17 008	15 810	15 884	16 241	16 519	16 433	6 239	38.0

NB: DE: includes former GDR: 1990 = 14031 km.

CS: 1990: 13111 km.

Railways

HIGH-SPEED RAIL NETWORK

2.5.4

LENGTH OF LINES

km (at end of year)												
	BE	DE	DK	ES	FR	IT	NL	AT	PL	FI	SE	EU-27
1985	-	-	-	-	425	174	-	-	-	-	-	599
1990	-	90	-	-	717	194	-	24	-	-	-	1 025
1995	-	426	-	471	1 290	238	-	24	-	156	-	2 605
2000	72	576	-	471	1 290	238	-	24	-	156	187	3 014
2005	137	1 089	-	1 038	1 549	238	-	105	-	882	187	5 225
2010	209	1 178	-	2 102	1 912	856	90	121	-	1 120	680	8 268
2015	209	1 381	-	3 002	2 058	856	90	237	224	1 120	860	10 037
2020	209	1 571	56	3 487	2 735	921	90	254	224	1 120	860	11 527
2023	209	1 631	56	3 993	2 735	921	90	254	224	1 120	895	12 128

NB: High speed lines include principal railway lines allowing traffic at speeds on the main segments equal to or greater than 200 km/h on upgraded lines and 250 km/h on especially built lines. **Dedicated high-speed railway line** is a line specially built to allow traffic at speeds equal to or greater than 250 km/h for the main segments. **Dedicated high-speed lines:** BE: 209 km; DE: 1 200 km; DK: 56 km; ES: 3 225 km; FR: 2 735 km; IT: 896 km; NL: 89 km.

HIGH-SPEED LINES CURRENTLY UNDER CONSTRUCTION

	LINE	LENGTH km	START OF OPERATION
DE	Stuttgart - Wendlingen	25	2025
DE	Karlsruhe - Raststatt (Basel)	17	2024
DE	Buggingen - Katzenbergtunnel (Basel)	32	2025
DE	(Karlsruhe) Katzenbergtunnel - Basel	13	2025
ES	Talayuela - Navalmodal - Plasencia	69	2024
ES	Vitoria Gasteiz-Bilbao - San Sebastian	175	2028
ES	Murcia - Almeria	188	-
ES	Castejon - Pamplona	75	-
ES	La Encina - Valencia	107	-
ES	Palencia - Alar del Rey	82	-
EE	Tallinn-Latvian Border	213	2030
FR	Lyon - Italian Border	189	2032
IT	Genova - Milano (Tortona)	53	-
IT	Brescia - Verona	45	-
IT	Napoli - Bari	150	-
IT	Verona - Padova	79	-
IT	Turin - French Border	81	2032
LV	Estonian border - Lithuanian border	265	2030
LT	Latvian border - Polish Border	252	2030
LT	Kaunas - Vilnius	109	2032
AT	Wien Stadlau - Staatsgrenze (AT/SK)	38	2023
AT	Wien Inzersdorf Ort - Wr. Neustadt	47	2023
AT	Graz-Klagenfurt	122	2025
AT	Gloggnitz - Mürzzuschlag	28	2026
AT	Volders - Baumkirchen / Innsbruck - Staatsgrenze AT/IT	46	2027
PT	Evora - Caila	80	2025
SE	Umeå - Dävå	12	2024
SE	Varberg - Hamra (Varberg tunnel)	7	2025

NB: The length indicated above is the length of the line under construction and not necessarily the distance between the places named.

2.5.5 Railways – MAIN RAILWAY GAUGE AND ELECTRIC CURRENT USED

TRACK GAUGE		ELECTRIC CURRENT		
	mm	DC volts	AC volts	
BE	1 435	3 000	25 000	50 Hz
BG	1 435		25 000	50 Hz
CZ	1 435	3 000	25 000	50 Hz
DK	1 435	3 000	25 000	50 Hz
DE	1 435	800-1 200 (contact rail)	15 000	16.7 Hz
EE	1 520	3 000		
IE	1 600	1 500		
EL	600			
	750			
	1 000			
	1 435		25 000	50 Hz
ES*	1 000	1 500		
	1 435		25 000	50 Hz
	1 668	3 000		
FR	1 000	750-850 (contact rail)		
	1 435	1 500	25 000	50 Hz
HR	1 435	3 000	25 000	50 Hz
IT	1 435	3 000	25 000	50 Hz
CY	-	-	-	-
LV	1 520	3 000		
LT	1 520		25 000	50 Hz
	1 435			
LU	1 435		25 000	50 Hz
HU	1 435		25 000	50 Hz
MT	-	-	-	-
NL	1 435	1 500		
AT	1 435		15 000	16.7 Hz
PL	1 435	3 000		
PT	1 000			
	1 668		25 000	50 Hz
RO	1 435		25 000	50 Hz
SI	1 435	3 000		
SK	1 435	3 000	25 000	50 Hz
FI	1 524		25 000	50 Hz
SE	1 435		15 000	16.7 Hz

NB: 1 435 mm = standard gauge.

(*) ES: new lines have a gauge of 1 435 mm and an electric current of 25 000 volts, 50 Hz.

Air

NUMBER OF AIRPORTS

2.5.6

BY NUMBER OF PASSENGERS CARRIED (*) IN 2023

	more than 10 million	5 to 10 million	1 to 5 million	500 000 to 1 million	100 000 to 500 000	15 000 to 100 000
EU-27	37	32	75	35	88	23
BE	1	1			3	
BG		1	2			
CZ	1			1	2	
DK	1		2	1	1	2
DE	5	2	9	3	3	1
EE			1			
IE	1		2	1	1	
EL	1	3	6	3	12	9
ES	7	7	10	4	6	
FR	4	5	8	6	19	
HR			4		2	
IT	7	4	12	4	7	
CY		1	1			
LV		1				
LT			2		1	
LU			1			
HU	1				1	
MT		1				
NL	1	1	1		2	
AT	1		1	2	2	
PL	1	3	3	1	5	
PT	2	1	2	1	5	3
RO	1		3	3	1	
SI			1			
SK			1	1		
FI	1			2	7	6
SE	1	1	3	2	8	2
IS		1			2	
NO	1	1	6	3	8	9
CH	2	1				2
BA			1	1	1	1
ME			1	1		
MD			1			
MK			1		1	
GE			2	1		
AL		1				1
RS		1			1	
TR	5	1	11	9	18	8
UK	7	3	7	5	10	3

NB: (*) 'Passengers carried' do not include direct transit passengers (i.e. transit passengers who stay on board and continue their flight with the same flight number). In this table, blank means none.

2.5.7

Maritime

NUMBER OF PORTS

BY WEIGHT OF GOODS TRANSPORTED IN 2023

	more than 50 million tonnes	10 to 50 million tonnes	5 to 10 million tonnes	1 to 5 million tonnes	500 000 to 1 million tonnes	less than 500 000 tonnes
EU-27	13	61	37	130	61	378
BE	1	1			1	
BG		2				
CZ	-	-	-	-	-	-
DK			5	21	10	78
DE	1	5	4	6	3	36
EE		1		4	1	1
IE		1	2	4		10
EL		5		21	13	131
ES	3	8	6	10	2	7
FR	2	3	2	11	6	14
HR			1	4	1	18
IT	2	18	6	12	12	26
CY				3		1
LV		1	2	1	1	2
LT		1	1			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT				2		1
NL	2	2	2			2
AT	-	-	-	-	-	-
PL	1	3			1	4
PT		3	2	3	1	12
RO	1			1		4
SI		1				
SK	-	-	-	-	-	-
FI		3	1	12	3	17
SE		3	3	15	6	14
IS				3	1	23
NO	1	3	4	20	13	48
CH						
BA	-	-	-	-	-	-
AL				1		2
ME				1		
MD	-	-	-	-	-	-
MK	-	-	-	-	-	-
RS	-	-	-	-	-	-
TR	4	7	6	10	5	10
UA	na					
UK	6	12	9	18	11	55

Inland waterways

LENGTH IN USE

2.5.8

NAVIGABLE CANALS, RIVERS AND LAKES REGULARLY USED FOR FREIGHT TRANSPORT

	km							
	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	38 147	40 347	41 343	41 312	45 305	46 623	50 122	
BE	1 515	1 540	1 534	1 516	1 516	1 516	1 516	1 516
BG	470	470	470	470	470	470	470	470
CZ		677	664	664	676	720	726	726
DK	-	-	-	-	-	-	-	-
DE	4 350	6 663	6 754	7 565	7 728	7 675	7 675	7 675
EE		520	320	320	335	416	449	437
IE	-	689	689	689	689	689	689	689
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	92	92	92
FR	6 197	5 962	5 789	5 788	5 110	8 501	8 501	8 507
HR	933	933	720	804	805	1 017	1 017	1 017
IT	1 366	1 466	1 477	1 562	1 562	1 562	1 562	1 562
CY	-	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-	-
LT	369	369	380	290	448	446	512	494
LU	37	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 575	1 575	1 575
MT	-	-	-	-	-	-	-	-
NL	5 046	5 046	6 183	6 082	6 104	6 261	6 371	7 040
AT	351	351	351	351	351	351	351	351
PL	3 997	3 980	3 813	3 638	3 659	3 655	3 768	3 767
PT	-	-	-	-	-	244	244	244
RO	1 782	1 779	1 779	1 779	1 779	1 779	2 763	2 764
SI	-	-	-	-	-	-	-	-
SK	2 379	172	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 133	8 086
SE								2 900
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	-	-	-	-	574	579	531	531
ME	-	-	-	-	-	-	-	-
MD		40	42	42	42	42	8	7
MK	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-
RS					1 364	1 593	1 593	1 593
TR	-	-	-	-	-	-	-	-
UA	4 005	3 662	2 414	2 191	2 185	1 563	1 888	1 888
UK	1 631	1 153	1 153	1 065	1 050	1 050	1 050	1 050

NB: DE: includes former GDR: 1990 = 2 319.

RO: since 2019 the length of navigable lakes was added to the previous figures.

FR, CH: since 2013 data include also public navigation for passengers transport.

Data revision in 2025: IE, ES and PT: inclusion of inland waterways network operated for passenger transport; NL: backwards revision of time series.

2.5.9

Pipelines

LENGTH OF OIL PIPELINES

	km							
	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	28 497	30 578	31 338	31 168	32 621	32 602	31 504	
BE	301	294	294	294	294	294	294	294
BG	578	578	578	578	578	570	571	571
CZ		581	675	675	674	642	642	642
DK	444	330	330	330	330	330	330	330
DE	2 222	2 460	2 370	2 370	2 370	2 370	2 370	2 370
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	267	267	53	53	53
ES	2 678	3 691	3 780	3 833	4 365	4 736	4 722	4 722
FR	4 948	4 983	5 746	5 746	6 293	7 142	7 142	6 882
HR	865	601	601	610	610	610	610	610
IT	4 086	4 235	4 346	4 328	4 291	4 022	3 931	2 983
CY	-	-	-	-	-	-	-	-
LV	766	766	766	860	417	339	339	339
LT		400	500	500	500	500	500	500
LU	-	-	-	-	-	-	-	-
HU	2 574	2 071	2 061	2 032	2 209	2 215	2 236	2 236
MT	-	-	-	-	-	-	-	-
NL	391	391	391	391	391	1 400	1 400	1 400
AT	777	777	777	777	1 214	1 214	1 214	1 214
PL	2 039	2 278	2 278	2 278	2 362	2 483	2 483	2 584
PT	-	-	147	147	147	147	147	147
RO	3 694	3 546	4 423	4 807	3 346	3 048	3 112	3 121
SI	-	-	-	-	-	-	-	-
SK		515	515	515	510	506	506	506
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	3 701	7 908	1 189	1 260	1 245	1 571	1 571
CH	239	239	109	109	109	48	48	48
ME	-	-	-	-	-	-	-	-
MK				155	144	144	144	144
AL	-	-	-	-	-	-	-	-
RS					374	370	280	280
TR		1 126	2 112	3 065	3 038	3 053	3 060	3 097
UA						4 767	4 767	
UK	2 462	3 470	3 954	4 501	4 446	4 446	4 446	4 446

NB: Including oil pipelines under the sea.

DE: crude oil pipelines only; includes former GDR: 1990 = 1 323 km.

CZ: 1990 = 1 090 km.

Road MOTORISATION

2.6.1

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS									%
	1990	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	339	377	412	443	480	508	555	570	1.0
BE	387	421	456	468	480	501	510	512	0.9
BG	152	196	245	333	353	456	439	466	3.8
CZ	234	295	336	387	429	485	576	597	2.6
DK	309	320	347	362	389	419	466	474	0.5
DE	461	495	475	493	527	548	580	588	0.3
EE	154	269	333	366	416	514	608	630	1.3
IE	228	276	348	400	416	436	452	449	1.4
EL	169	208	295	391	469	474	514	565	2.8
ES	309	357	429	460	475	482	549	551	-0.5
FR	464	468	489	482	487	558	568	573	0.8
HR	121	155	262	321	353	363	449	495	3.5
IT	483	533	572	595	613	621	670	694	1.8
CY	304	335	384	477	551	575	645	647	2.2
LV	106	134	237	333	307	345	390	418	2.2
LT	133	199	336	442	554	430	557	589	2.0
LU	477	556	622	655	659	661	682	675	0.3
HU	187	218	232	287	299	327	406	435	2.0
MT	332	478	483	525	581	612	597	575	-1.8
NL	367	364	409	434	464	477	497	505	0.9
AT	388	452	511	504	530	546	570	566	0.1
PL	138	195	261	323	453	474	566	595	1.9
PT	185	255	333	400	444	456	535	550	0.0
RO	56	97	124	158	214	261	379	425	3.0
SI	294	357	435	479	518	523	555	579	1.6
SK	166	189	237	243	310	375	447	487	3.6
FI	388	371	412	462	535	590	652	664	0.5
SE	419	411	450	459	460	474	476	472	-0.4
IS	468	445	561	625	643	681	731	667	-9.9
LI	582	609	663	699	744	766	768	774	0.1
NO	380	386	411	437	469	501	544	521	-5.4
CH	442	457	492	518	518	535	537	531	-0.8
BA						238	286	328	4.5
ME					266	283	338	389	5.3
MD						186	256	325	9.6
MK		145	148	124	151	185	207	303	14.6
GE						240	319	389	9.1
AL		18	37	65	101	140	191	253	9.4
RS				200	216	259	315	362	2.8
TR		49	68	84	102	134	157	178	6.6
UA		90		118	148				
UK	361	378	425	467	465	477	488	492	0.2

NB: Passenger car stock at end of year n divided by the population on 1 January of year n+1.

2.6.2

Road

PASSENGER CARS

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	142 906	160 511	176 926	193 282	211 305	225 652	247 656	256 130	1.4
BE	3 864	4 273	4 678	4 919	5 276	5 662	5 897	6 048	1.6
BG	1 317	1 648	1 993	2 538	2 602	3 162	2 867	3 006	3.8
CZ	2 410	3 043	3 439	3 959	4 496	5 115	6 049	6 513	3.3
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 724	2 828	1.0
DE	36 772	40 499	39 059	40 660	42 302	45 071	48 249	49 099	0.7
EE	241	383	464	494	553	677	809	866	1.9
IE	801	998	1 333	1 684	1 899	2 060	2 292	2 404	3.0
EL	1 736	2 205	3 195	4 303	5 217	5 108	5 492	5 878	2.7
ES	11 996	14 212	17 449	20 250	22 147	22 356	26 034	26 778	0.6
FR	27 072	27 872	29 808	30 497	31 657	37 180	38 468	39 259	1.0
HR	580	711	1 125	1 385	1 515	1 500	1 746	1 910	3.8
IT	27 416	30 301	32 584	34 667	36 751	37 351	39 718	40 915	1.7
CY	179	220	268	355	463	488	578	626	4.1
LV	283	332	557	742	637	679	739	782	1.6
LT	493	718	1 172	1 455	1 692	1 244	1 565	1 701	3.0
LU	183	229	273	307	337	381	433	454	2.0
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 921	4 169	1.8
MT	120	181	189	213	241	275	308	324	2.1
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 686	9 067	1.7
AT	2 991	3 594	4 097	4 157	4 441	4 748	5 092	5 185	0.7
PL	5 261	7 517	9 991	12 339	17 240	18 012	20 986	21 797	1.6
PT	1 849	2 560	3 443	4 200	4 692	4 723	5 566	5 848	1.2
RO	1 292	2 197	2 778	3 364	4 320	5 155	7 275	8 107	3.1
SI	587	711	866	960	1 062	1 079	1 171	1 231	1.9
SK	880	1 016	1 274	1 304	1 669	2 035	2 440	2 644	3.5
FI	1 939	1 901	2 135	2 430	2 877	3 235	3 608	3 718	1.2
SE	3 601	3 631	3 999	4 154	4 335	4 668	4 943	4 976	-0.1
IS	120	119	159	187	205	226	270	256	-10.9
LI	17	19	22	24	27	29	30	31	1.0
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 935	2 889	-4.3
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 658	4 761	0.8
BA						827	936	1 045	3.9
ME					165	176	210	243	6.5
MD						530	678	789	5.7
MK		286	300	253	310	384	429	553	14.4
GE						895	1 190	1 439	7.9
AL		59	115	195	295	404	539	699	9.4
RS				1 481	1 566	1 835	2 165	2 389	2.2
TR		3 059	4 422	5 773	7 545	10 589	13 099	15 221	6.7
UA		4 603		5 539	6 769				
UK	20 722	21 951	25 067	28 326	29 334	31 171	32 697	33 579	1.2

NB: Stock at end of year, except for BE: 1 August (1 July in 2012), CH: 30 September, LI: 1 July.

Taxis are usually included.

HR: from 2009 light vans are included in passenger cars and no longer in goods vehicles.

FR: 2013-2019 data were revised; data until 2012 included private cars < 15 years old.

Road

BUSES AND COACHES

2.6.3

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	665.3	678.4	693.1	689.8	707.8	715.8	741.1	771.8	1.3
BE	15.6	14.7	14.7	15.4	16.2	17.1	16.5	16.5	0.7
BG	34.6	41.8	43.0	37.8	24.5	23.5	19.1	17.9	2.3
CZ	20.5	20.5	19.0	20.9	20.4	20.7	20.0	22.1	2.9
DK	8.1	13.7	14.0	14.4	14.5	13.4	12.3	10.8	-5.1
DE	100.4	85.4	77.2	75.2	76.5	78.3	75.5	84.6	2.0
EE	7.9	7.0	6.1	5.2	4.2	4.8	5.2	5.2	-3.5
IE	4.0	5.3	7.0	7.6	9.9	10.9	11.9	14.1	5.6
EL	21.4	24.6	27.0	26.8	27.3	26.6	26.5	26.6	0.3
ES	45.8	47.4	54.7	58.2	62.4	60.3	64.1	67.4	1.9
FR	70.0	79.0	85.7	90.1	89.7	87.4	92.9	93.9	-0.2
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.2	5.8	2.9
IT	77.7	75.0	88.0	94.4	99.9	98.0	99.9	100.1	0.1
CY	2.3	2.7	2.9	3.2	3.4	2.7	2.7	3.1	6.9
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.1	4.0	-0.7
LT	15.2	17.6	15.5	15.3	13.7	6.9	7.7	7.6	0.8
LU	0.8	0.9	1.1	1.3	1.6	1.9	2.3	2.6	4.7
HU	26.4	20.5	17.9	17.5	17.6	18.1	17.0	17.5	-0.7
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.2	2.5	4.3
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.3	8.7	-0.9
AT	9.4	9.8	9.9	9.3	9.6	9.5	9.9	10.4	2.3
PL	92.4	85.4	82.6	79.6	97.0	109.8	124.5	132.4	2.9
PT	12.1	15.0	19.8	14.7	15.4	14.7	15.2	16.5	0.6
RO	28.3	42.0	40.7	39.3	40.9	47.3	54.2	56.0	2.3
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.3	2.9	2.8
SK	14.3	12.1	11.1	9.4	9.6	8.9	7.9	8.7	3.2
FI	9.3	8.1	9.9	10.9	13.7	16.9	19.3	19.6	-0.2
SE	14.6	14.6	14.4	13.5	13.9	14.1	13.5	14.3	0.6
IS	1.3	1.3	1.7	1.9	1.9	2.5	3.1	3.2	-0.6
LI			0.1	0.1	0.1	0.1	0.1	0.1	5.9
NO	21.2	32.5	36.7	28.8	20.3	16.7	16.1	14.6	-3.6
CH	31.2	36.5	40.3	45.8	52.8	65.7	88.3	114.3	8.7
BA						4.2	3.6	4.2	1.5
ME						1.3	1.0	1.4	4.9
MD				19.8	21.4	21.1	21.0	21.1	0.4
MK	2.3	2.5	2.5	2.3	2.7	3.2	2.6	3.8	33.6
GE						53.0	54.5	54.1	-0.2
AL		6.7	16.8	29.5	7.0	6.4	7.6	8.6	4.3
RS				9.7	8.0	9.5	9.9	11.1	-0.2
TR	188.1	263.2	354.3	501.9	595.5	666.3	705.8	713.4	2.5
UA			145.5	167.9	175.2	253.4	253.4		
UK	75.0	75.9	88.6	105.6	111.5	113.3	98.4	98.6	-1.7

NB: Stock at end of year, except for BE: 1 August, CH: 30 September, LI: 1 July.

Data include buses, coaches, minibuses and sometimes also trolleybuses (BG: includes trolleybuses).

BG, CZ, EE, AT, SK, BA: as of 2013 data was corrected by removing the trolleybuses from the total.

2.6.4

Road

GOODS VEHICLES

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27		20 297	23 988	27 389	29 406	30 900	33 100	35 030	2.0
BE	380	442	548	662	738	832	978	1 034	1.6
BG	162	223	259	334	334	444	461	487	3.3
CZ		219	298	439	598	652	732	776	2.7
DK	287	334	385	470	485	437	419	400	-2.1
DE	1 653	2 379	2 419	2 405	2 619	2 995	3 628	3 966	2.5
EE	68	66	82	86	81	102	135	147	2.3
IE	143	142	206	287	327	331	378	400	2.9
EL	766	884	1 057	1 186	1 319	1 323	1 374	1 421	1.1
ES	2 401	3 024	3 923	4 850	5 303	5 047	4 040	4 102	1.2
FR	4 840	5 116	5 152	5 347	4 710	5 078	5 350	5 587	1.7
HR		73	123	163	158	149	202	238	6.2
IT	2 208	2 510	3 087	3 786	4 142	4 098	4 417	4 695	2.6
CY	74	101	115	118	121	104	116	124	2.8
LV		69	97	113	72	86	92	100	2.5
LT	83	109	99	122	134	103	143	172	12.2
LU	11	16	25	30	36	40	49	53	2.4
HU	262	278	353	413	451	496	616	668	2.6
MT		41	51	44	42	44	52	55	2.6
NL	553	654	899	1 005	1 004	963	1 086	1 154	1.6
AT	262	303	344	358	397	444	532	583	1.6
PL		1 354	1 879	2 305	2 982	3 412	3 969	4 328	2.8
PT	781	912	1 313	1 308	1 337	1 313	1 396	1 377	-1.9
RO	259	343	427	494	667	856	1 142	1 260	2.6
SI	31	43	54	66	84	91	118	141	10.5
SK	92	103	114	174	276	303	327	345	2.2
FI	264	252	304	364	464	561	669	722	3.4
SE	310	308	374	461	526	596	680	694	-0.2
IS	13	15	19	26	30	33	43	43	9.4
LI			2	3	3	3	4	4	0.7
NO	308	350	414	465	527	554	586	572	-3.8
CH	252	262	279	307	335	394	452	485	2.0
BA							80	91	3.8
ME						14	20	23	5.7
MD				82	131	165	186	198	1.9
MK		23	25	18	33	39	45	59	16.3
GE							104	118	6.1
AL		29	46	47	84	50	61	70	4.4
RS				118	152	140	256	294	3.4
TR		830	1 352	2 152	3 125	4 060	4 798	5 447	4.8
UA									
UK	2 706	2 565	2 928	3 552	3 797	4 242	4 858	5 245	1.6

NB: Stock at end of year, except for CH: 30 September, LI: 1 July.

As a rule, data include heavy and light goods vehicles, lorries and road tractors; due to varying concepts of such vehicles, data are not fully comparable between countries.
 HR: from 2009 light vans are included in passenger cars and no longer in goods vehicles.
 EE, FR: include special purpose vehicles.

SI, SK: light goods vehicles are not included. GE: only lorries > 3.5 t. AL: includes mixed transport vehicles (=vehicles with a total full load weight not exceeding 3.5 t or 4.5 t when there is a battery traction, intended for transport of people and goods).

Road POWERED TWO-WHEELERS

2.6.5

STOCK OF REGISTERED VEHICLES

							1 000	%
	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27		22 892	29 056	31 607	32 771	36 187	39 000	2.3
BE		278	346	419	485	732	828	3.0
BG	519	521	147	125	163	206	239	7.3
CZ	915	1 179	1 254	1 402	1 532	1 680	1 788	2.2
DK	58	138	172	204	198	196	196	-0.4
DE	3 995	4 438	5 203	3 828	4 228	4 662	4 993	1.6
EE	3	7	10	20	46	61	70	4.6
IE	23	31	34	38	37	45	49	2.8
EL		781	1 124	1 499	1 620	1 638	1 782	3.9
ES	1 301	1 446	4 118	4 998	5 103	5 609	5 955	2.2
FR	2 289	2 410	2 475	3 561	2 694	2 700	2 910	2.3
HR	21	65	128	179	153	159	175	4.0
IT	6 228	7 827	9 298	8 855	8 966	9 631	10 509	2.1
CY	50	43	40	41	39	40	43	3.1
LV	16	21	32	37	49	64	77	5.5
LT	20	20	24	56	38	61	88	11.4
LU	28	33	38	42	28	32	36	2.5
HU		91	123	142	163	195	221	5.1
MT	17	12	12	15	19	32	44	8.4
NL	855	971	1 113	1 664	1 803	1 993	1 892	-1.1
AT	546	633	628	728	800	884	948	1.9
PL	929	803	1 091	1 935	2 532	3 069	3 382	3.4
PT	216	346	588	498	528	691	826	8.0
RO	328	239	197	85	113	162	209	8.8
SI	9	11	49	91	100	140	162	5.7
SK	82	46	56	88	121	154	179	4.8
FI	160	193	302	487	581	636	660	0.6
SE	264	310	453	570	633	713	741	1.3
IS	2	1	3	6	5	5	7	35.2
LI		3	3	4	4	5	6	27.3
NO	159	202	257	315	354	385	310	-15.9
CH	688	713	748	791	871	1 001	1 075	2.6
BA					11	17	25	12.4
ME					4	6	9	24.6
MD					36	40	52	9.1
MK			2	8	10	13	23	22.0
GE							30	
AL	7	4	7	24	33	41	56	11.2
RS			16	38	64	77	95	5.3
TR	820	1 011	1 441	2 389	2 938	3 513	5 079	22.6
UA								
UK	714	971	1 235	1 264	1 253	1 298	1 354	-0.7

NB: Stock at end of year, except for BE:1 August, CH:30 September, LI:1 July.
 National vehicle stock data do not always include all powered two-wheelers and are therefore not fully comparable between countries.
 Tricycles and quads are sometimes included in the data.
 SE data includes cross-country scooters, CH: mopeds include fast e-bikes.
 Break in time series due to inclusion of mopeds from 2001 in ES, from 2002 in SI and HR, from 2004 in LV, from 2005 in PL, from 2007 in LT, from 2009 in SK, from 2011 in EE, from 2017 in BE.
 CZ: revision in 2022 of the whole time series due to inclusion of the mopeds.

Sources: Eurostat [road_eqs_carage, tran_r_vehst], national statistics, Association des constructeurs européens de motocycles (ACEM) for FR (2017 data)

2.6.6

Road

PASSENGER CARS

NEW VEHICLE REGISTRATIONS

	1 000					%			CHANGE '23/'24
	2010	2015	2020	2023	2024	2015	2023	2024	
EU-27	11 407.4	11 107.4	10 122.9	10 654.6	10 724.0	0.4	14.5	13.6	0.7
BE	547.3	506.3	439.0	484.6	456.3	0.3	19.3	28.0	-5.8
BG	15.6	17.3	20.4	37.5	42.8	0.1	4.7	3.9	14.2
CZ	169.6	229.7	198.4	212.7	217.5	0.1	3.1	5.0	2.3
DK	153.6	206.7	199.0	173.4	173.5	0.6	36.1	51.3	0.1
DE	2 916.3	3 206.0	2 917.7	2 844.6	2 817.3	0.4	18.4	13.5	-1.0
EE	10.3	21.1	19.3	23.0	25.7	0.1	6.3	5.1	12.0
IE	88.4	130.0	92.4	125.5	123.1	0.4	18.5	14.2	-2.0
EL	141.5	75.5	79.6	134.5	137.0	0.0	4.7	6.4	1.9
ES	982.0	1 047.8	927.5	983.7	1 067.2	0.3	5.6	5.6	8.5
FR	2 251.7	1 886.2	1 693.5	1 841.3	1 780.9	0.9	16.5	16.6	-3.3
HR	46.2	34.8	28.0	43.9	47.8	0.2	2.6	1.8	9.0
IT	1 961.6	1 593.9	1 437.3	1 581.2	1 559.2	0.1	4.2	4.2	-1.4
CY	15.1	10.1	10.2	14.6	15.1	0.0	5.4	7.9	2.9
LV	6.4	14.3	13.7	18.5	17.1	0.1	8.8	7.4	-7.1
LT	8.0	13.8	40.9	26.9	27.9	0.2	8.2	6.7	3.7
LU	49.7	46.5	45.2	49.2	46.6	0.2	22.5	27.4	-5.1
HU	43.5	77.4	128.2	107.9	121.6	0.1	5.4	7.0	12.7
MT	4.1	7.2	4.6	7.5	7.7	0.3	20.3	37.7	2.9
NL	482.6	448.9	355.4	369.6	381.5	0.7	30.8	34.6	3.2
AT	328.6	308.6	248.7	239.2	253.8	0.5	19.9	17.6	6.1
PL	333.5	356.3	432.4	477.3	554.2	0.0	3.6	3.0	16.1
PT	223.5	178.5	145.3	200.2	210.2	0.4	18.2	19.9	5.0
RO	106.3	81.2	126.3	144.6	151.1	0.0	10.6	6.5	4.5
SI	61.1	60.7	53.4	48.5	52.5	0.2	8.9	6.0	8.4
SK	64.0	78.2	76.3	86.8	91.5	0.0	2.9	2.4	5.5
FI	107.3	108.8	96.4	87.5	74.1	0.2	33.8	29.5	-15.4
SE	289.7	361.9	293.8	290.8	270.7	0.8	38.6	34.9	-6.9
IS	3.1	14.0	10.6	17.5	10.2	1.8	50.1	26.0	-41.7
LI		2.0	1.5	1.6	1.6	1.5	21.3	23.1	-1.4
NO	127.8	158.6	157.5	128.7	130.7	16.3	81.4	87.9	1.5
CH	292.5	331.0	245.5	263.5	252.5	1.2	20.1	18.5	-4.2
BA		5.7	6.5	9.0	9.2	0.0	1.5	1.0	1.4
ME	8.6	2.2	4.0						
MD		17.0	30.3	46.0	53.2	0.1	2.2	3.1	15.6
MK	49.3	29.3	30.0	35.5	44.2				
GE			2.4	6.4	8.5		3.8	6.1	31.9
AL			43.7	66.0	82.9		2.5	3.4	25.6
RS			22.6	46.0	49.3		1.1	1.2	7.2
TR	485.6	746.4	601.5	945.8	1 014.8	0.0	6.9	10.2	7.3
UA			88.8	63.0	68.8		11.5	14.9	9.2
UK	2 030.8	2 661.0	1 656.4	1 945.8	2 000.1	0.4	16.1	19.1	2.8

NB: (*) Zero-emission vehicles include battery electric vehicles and fuel cell electric vehicles, powered by hydrogen.

Some countries may report new registration of used cars under new registration of new cars.

2024 figures are provisional.

Road

GOODS VEHICLES

2.6.7

NEW VEHICLE REGISTRATIONS

LIGHT GOODS VEHICLES (< 3.5 T)			% Zero-emission vehicles	HEAVY GOODS VEHICLES (>3.5 T)		TOTAL GOODS VEHICLES		% CHANGE '23/'24
	2023	2024	2024	2023	2024	2023	2024	
EU-27	1376 142	1474 582	6.1	322 772	301 756	1698 914	1776 338	4.6
BE	67 673	65 933	3.8	10 055	9 367	77 728	75 300	-3.1
BG	5 192	6 794	1.2	3 954	2 633	9 146	9 427	3.1
CZ	21 076	21 229	2.9	8 897	8 577	29 973	29 806	-0.6
DK	25 752	28 020	15.2	4 548	4 300	30 300	32 320	6.7
DE	251 294	273 547	5.1	81 675	75 434	332 969	348 981	4.8
EE	3 976	4 143	2.2	887	656	4 863	4 799	-1.3
IE	27 225	30 785	3.1	2 516	2 865	29 741	33 650	13.1
EL	9 998	9 872	13.5	579	880	10 577	10 752	1.7
ES	111 549	115 408	3.5	24 840	31 350	136 389	146 758	7.6
FR	354 792	352 449	7.6	45 369	44 841	400 161	397 290	-0.7
HR	5 476	5 048	0.4	1 666	1 436	7 142	6 484	-9.2
IT	178 289	180 076	2.4	22 947	22 786	201 236	202 862	0.8
CY	1 862	2 245	1.7	151	170	2 013	2 415	20.0
LV	2 701	2 737	2.0	1 869	1 246	4 570	3 983	-12.8
LT	2 592	2 088	3.6	10 551	7 045	13 143	9 133	-30.5
LU	5 417	3 996	7.4	1 458	885	6 875	4 881	-29.0
HU	20 706	24 782	5.6	9 213	5 281	29 919	30 063	0.5
MT	782	859	16.6	97	77	879	936	6.5
NL	69 292	130 205	8.7	14 861	16 822	84 153	147 027	74.7
AT	30 702	33 088	8.8	8 008	7 970	38 710	41 058	6.1
PL	62 333	64 482	2.9	33 740	26 313	96 073	90 795	-5.5
PT	27 415	31 141	7.6	6 649	6 292	34 064	37 433	9.9
RO	17 174	18 529	2.8	8 489	7 906	25 663	26 435	3.0
SI	7 739	8 674	0.9	4 333	3 424	12 072	12 098	0.2
SK	9 107	9 061	1.8	3 539	3 412	12 646	12 473	-1.4
FI	11 066	9 737	12.7	4 578	3 931	15 644	13 668	-12.6
SE	44 962	39 654	21.3	7 303	5 857	52 265	45 511	-12.9
IS	1 890	1 870	10.1	422	386	2 312	2 256	-2.4
LI	198	256	14.5	41	94	239	350	46.4
NO	28 769	27 535	29.6	5 726	5 503	34 495	33 038	-4.2
CH	30 476	30 884	8.2	4 556	5 037	35 032	35 921	2.5
BA	1 230	1 415	0.0					
ME								
MD								
MK		2 845				3 293	4 765	44.7
GE			2.2					
AL								
RS	11 467	11 036						
TR	229 795	225 519	0.1					
UA	5 004	6 433	0.1					
UK	351 844	363 450		52 396	52 550	404 240	416 000	2.9

NB: Heavy goods vehicles include lorries > 3.5 t and road tractors.
2024 figures are provisional.

2.6.8

Road

BUSES AND COACHES

NEW VEHICLE REGISTRATIONS

							%	CHANGE '23/'24
							Zero-emission vehicles	
	2015	2020	2021	2022	2023	2024	2024	
EU-27	37 970	30 305	31 745	29 520	34 400	37 734	18.0	9.7
BE	925	792	944	595	733	843	22.9	15.0
BG	332	167	201	211	347	127	0.0	-63.4
CZ	1 428	1 383	1 253	1 161	1 200	1 291	4.6	7.6
DK	835	440	746	714	563	578	63.8	2.7
DE	6 137	6 460	6 474	4 883	5 493	5 382	13.9	-2.0
EE	232	223	269	304	151	186	9.1	23.2
IE	417	267	513	417	458	576	39.4	25.8
EL	123	289	446	261	260	874	31.0	236.2
ES	2 890	2 172	1 952	2 435	3 169	4 361	15.3	37.6
FR	7 344	6 399	7 207	6 192	6 365	6 625	9.9	4.1
HR	482	230	76	221	76	174	0.0	128.9
IT	2 479	2 961	4 091	3 689	5 395	6 616	18.4	22.6
CY	37	246	20	58	292	102	1.0	-65.1
LV	281	164	258	278	178	356	9.0	100.0
LT	200	316	146	112	272	286	25.9	5.1
LU	251	214	167	301	244	317	76.0	29.9
HU	625	700	1 086	768	845	416	0.5	-50.8
MT	182	148	87	95	114	107	4.7	-6.1
NL	344	643	338	237	393	889	46.0	126.2
AT	887	865	879	916	1 122	972	10.3	-13.4
PL	5 886	1 599	1 441	1 065	1 566	2 129	9.2	36.0
PT	690	464	669	1 509	996	856	9.2	-14.1
RO	2 468	819	717	860	1 782	1 846	35.1	3.6
SI	171	64	99	149	147	180	2.2	22.4
SK	375	297	533	406	847	268	0.0	-68.4
FI	526	284	382	417	249	561	56.9	125.3
SE	1 423	1 699	751	1 266	1 143	816	31.1	-28.6
IS		44	43	25	143	197	3.0	37.8
LI	8	2	21	5	3	2	0.0	-33.3
NO	1 111	1 441	1 118	607	1 042	877	41.8	-15.8
CH	1 153	797	818	619	839	745	20.9	-11.2
BA	36	26	20	50	26	48	0.0	84.6
ME		6	44	35		144		
MD	79	117	357	271	261	390	15.6	49.4
MK	229	191	212	241	590			
GE		570	1 067	83	164	397	3.0	142.1
AL		172	378	373	416	432		3.8
RS		755	546		437	938		114.6
TR	36 605	13 018	10 811	10 632	18 526	26 286	0.6	41.9
UA		1 290	1 423	634	1 193	1 031	0.2	-13.6
UK	9 873	5 202	4 532	4 446	5 688	9 919	1 724	74.4

NB: 'Buses and coaches' includes trolleybuses
2024 figures are provisional.

Road MOTORCYCLES

2.6.9

NEW VEHICLE REGISTRATIONS

	1 000								% CHANGE '22/'23
	1995	2000	2005	2010	2015	2020	2022	2023	
EU-27			1 229.0	1 000.0	802.4	1 024.1	1 121.2	1 254.4	11.9
BE		25.3	25.0	26.4	21.6	25.1	24.1	24.8	2.8
BG		1.2	0.6	0.9	0.8	0.8	1.5	2.1	43.2
CZ	6.9	3.9	7.6	5.4	17.0	21.5	23.1	24.2	4.4
DK	2.3	3.3	5.8	2.6	2.2	3.7	3.2	2.7	-15.1
DE	218.2	252.6	168.7	122.3	151.7	220.4	199.4	213.8	7.2
EE		0.1	0.3	0.5	0.5	0.8	1.2	1.3	9.6
IE		3.8	2.4	1.1	1.0	1.6	2.8	2.9	3.6
EL		64.0	83.1	61.5	34.5	35.5	55.7	65.8	18.2
ES		72.0	205.6	134.3	132.5	156.2	177.0	201.1	13.7
FR		179.6	196.6	231.6	153.2	190.7	193.4	207.0	7.0
HR			6.7	2.9	3.0	6.0	3.3	4.9	45.9
IT		524.6	420.5	306.3	172.1	218.1	271.4	320.2	18.0
CY			2.5	3.1	1.7	2.5	2.3	3.0	28.4
LV			0.4	0.3	0.6	1.0	1.4	1.6	10.9
LT		0.4	1.7	0.2	0.3	0.7	1.6	1.6	2.0
LU	1.0	1.3	1.3	1.6	1.7	2.4	2.5	2.5	2.5
HU			12.5	3.2	2.1	4.3	5.3	6.7	26.8
MT			0.4	0.6	1.4	2.3	4.7	3.0	-35.5
NL	17.8	19.6	16.8	15.2	11.7	14.9	16.8	18.9	12.3
AT	18.7	23.8	19.1	21.4	24.9	32.5	34.2	36.9	7.8
PL			3.8	8.7	23.9	21.8	23.9	27.8	16.1
PT	12.1	17.7	11.2	18.9	17.6	29.0	36.6	43.2	17.9
RO			0.8	1.6	1.3	5.8	7.8	9.1	17.6
SI		1.2	2.5	2.7	2.5	3.1	5.2	6.7	28.3
SK			1.2	2.3	5.3	5.2	7.1	7.6	7.3
FI		5.2	9.2	9.5	3.2	3.7	3.8	3.5	-6.8
SE		18.4	22.8	14.8	14.4	14.4	12.1	11.6	-3.9
IS		0.2	1.1			0.2	0.2	0.2	11.9
NO			6.2	7.0	6.8	11.4	10.6	8.3	-21.5
CH		30.6	40.2	38.2	47.7	46.2	44.2	44.5	0.6
BA						0.4	0.7	0.8	3.6
ME					0.7	0.4	1.3	2.1	59.5
MD					1.3	3.3	3.8	4.2	11.6
MK	1.0	0.5	0.1	3.2	2.4	4.1	5.9	7.2	20.9
GE								1.3	
AL									
RS				8.0	3.9	5.9	7.1	6.3	-11.6
TR			227.7	135.6	162.8	107.9	205.8	484.2	135.2
UA						34.2	29.1	34.7	19.1
UK		121.9	108.1	81.3	105.7	97.3	109.3	108.1	-1.1

NB: MT: including e-bicycles.

Data on new registrations may include also the new registration of used vehicles.

2.6.10

Road
MOPEDS

NEW VEHICLE DELIVERIES

	1 000							%
	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27				337.8	373.4	321.6	246.4	-23.4
BE	33.2	17.3	14.2	12.4	28.5	32.0	30.8	-3.8
BG	2.1	1.1	2.1	0.8	0.4	0.7	0.7	4.9
CZ		8.0	2.9	1.5	1.3	0.4	0.5	39.2
DK	9.8	4.9	17.6	8.0	8.6	7.6	6.6	-13.3
DE	108.7	97.3	64.9	32.6	23.9	29.6	17.3	-41.7
EE		8.0	0.0	0.7	0.5	0.5	0.3	-33.0
IE	3.0	0.8	0.2	0.2	0.2	0.1	0.1	-8.8
EL	19.2	24.1	18.9	8.6	2.7	1.2	1.1	-5.0
ES	248.6	115.1	34.2	16.0	22.7	17.5	16.5	-5.3
FR	192.3	154.9	144.5	89.6	99.1	93.3	75.2	-19.4
HR		13.2	6.4	2.6	2.1	1.1	1.3	19.1
IT	311.8	128.3	90.2	24.6	21.4	21.6	18.7	-13.4
CY		2.1	0.5	0.2	0.2	0.2	0.3	35.9
LV		0.6	1.0	1.0	0.7	0.5	0.3	-48.4
LT			1.2	1.7	0.6	0.9	0.8	-17.5
LU	0.5	0.5	0.7	0.9	0.4	0.3	0.2	-50.0
HU			3.6	3.3	3.7	4.5	3.9	-13.1
MT				0.0	0.1	1.1	1.0	-11.4
NL	66.9	40.9	90.7	66.0	84.7	62.0	29.1	-53.1
AT	21.3	27.7	24.9	13.8	14.0	11.0	10.9	-1.1
PL		23.3	72.2	30.4	18.3	11.4	10.9	-4.8
PT	15.0		4.6	2.6	2.3	1.9	2.0	6.9
RO			1.1	(¹)	(¹)	(¹)	(¹)	
SI		3.1	3.5	2.3	5.2	5.4	5.1	-7.2
SK		2.0	1.8	0.4	0.2	0.3	0.3	16.4
FI	6.4	20.9	17.9	7.0	6.9	4.3	3.3	-21.7
SE	10.0	15.4	13.3	10.6	24.7	12.3	9.3	-24.2
IS					0.5	0.2	0.1	-22.8
NO		11.9	8.1	7.4	3.4	3.1	2.2	-28.1
CH	19.4	3.1	3.1	0.8	1.0	1.9	1.5	-20.6
BA					0.8	1.1	0.8	-22.3
ME								
MD								
MK								
GE							0.1	
AL					3.4	4.8	5.4	13.3
RS			8.8	1.7	2.1	3.1	2.8	-8.5
TR			1.5	2.3	100.5	209.7	473.0	125.6
UA					0.1	0.2	0.3	57.5
UK	48.2	24.7	14.5	9.4	6.1	7.2	5.4	-24.4

NB: (¹) Included in motorcycles.

Official statistics on mopeds are often unavailable, therefore data and estimates should be considered as indicative.

Data on new registrations may include also the new registration of used vehicles.

SI: since May 2017 obligatory registration of mopeds with the maximum speed of 25 km/h.

Sea

EU MERCHANT FLEET

2.6.11

SHIPS OF 1 000 gt AND OVER

On 1 January 2024								
	TOTAL FLEET CONTROLLED		NATIONAL FLAG (*)		FOREIGN FLAG (INCLUDING OTHER EU)		% OF FOREIGN FLAG IN TOTAL FLEET	
	Number	dwt (1 000)	Number	dwt (1 000)	Number	dwt (1 000)	Number	dwt
EU-27	12 314	674 258	2 574	109 796	9 740	564 462	79.1	83.7
BE	177	20 401	64	7 251	113	13 150	63.8	64.5
BG	72	1 980	10	83	62	1 897	86.1	95.8
CZ	-	-	-	-	-	-	-	-
DK	743	40 662	353	21 114	390	19 548	52.5	48.1
DE	2 180	74 534	136	7 346	2 044	67 188	93.8	90.1
EE	109	1 406	15	64	94	1 342	86.2	95.4
IE	100	1 702	38	377	62	1 325	62.0	77.8
EL	5 068	410 317	585	54 017	4 483	356 300	88.5	86.8
ES	194	4 225	63	263	131	3 962	67.5	93.8
FR	418	22 366	112	3 820	306	18 546	73.2	82.9
HR	79	2 132	52	1 086	27	1 046	34.2	49.1
IT	1 223	55 336	369	6 343	854	48 993	69.8	88.5
CY	224	9 154	49	1 121	175	8 033	78.1	87.8
LV	73	506	2	5	71	501	97.3	99.0
LT	58	254	14	81	44	173	75.9	68.1
LU	80	4 367	1	6	79	4 361	98.8	99.9
HU	-	-	-	-	-	-	-	-
MT	73	1 324	39	671	34	653	46.6	49.3
NL	856	11 850	521	4 610	335	7 240	39.1	61.1
AT	4	31			4	31	100.0	100.0
PL	90	2 516	5	15	85	2 501	94.4	99.4
PT	47	1 198	24	142	23	1 056	48.9	88.1
RO	109	1 616	2	24	107	1 592	98.2	98.5
SI	1	6			1	6	100.0	100.0
SK	1	5			1	5	100.0	100.0
FI	92	2 079	58	731	34	1 348	37.0	64.8
SE	243	4 289	62	624	181	3 665	74.5	85.5
IS	13	97	3	1	10	96	76.9	99.0
NO	1 690	83 087	670	15 429	1 020	67 658	60.4	81.4
CH	156	8 016	13	802	143	7 214	91.7	90.0
BA	-	-	-	-	-	-	-	-
ME	5	153	4	140	1	13	20.0	8.5
MK	-	-	-	-	-	-	-	-
MD	25	2 136			25	2 136	100.0	100.0
GE	15	632			15	632	100.0	100.0
AL	31	106	9	23	22	83	71.0	78.3
RS	2	24			2	24	100.0	100.0
TR	1 962	47 976	348	6 026	1 614	41 950	82.3	87.4
UA	193	2 665	193	2 665			0.0	0.0
UK	817	42 090	151	5 927	666	36 163	81.5	85.9

NB: (*) Including international registers like NIS and DIS.
Including vessels registered at territorial dependencies.

2.6.12a Sea – WORLD MERCHANT FLEET BY WORLD REGION

TOTAL CONTROLLED FLEET BY WORLD REGION

dwt (million)								
On 1 January								
World region	1995	2000	2005	2010	2015	2020	2023	2024
Europe (*)	311.246	350.136	400.947	518.276	739.100	866.235	893.968	894.742
of which: EU-27 (**)	223.564	257.975	316.850	432.246	578.157	667.891	690.517	674.258
North America	51.024	49.413	45.414	50.539	82.881	87.887	87.204	86.937
Latin America	18.691	15.679	14.422	30.867	29.608	33.609	17.535	17.073
Asia / Oceania	246.722	292.722	361.311	532.446	805.594	983.390	1197.344	1185.988
Africa	6.742	7.121	5.142	6.981	13.451	15.529	14.998	15.790
Unknown	37.956	38.115	52.687	86.555	4.561	5.607	25.068	30.100
TOTAL	672.381	753.226	879.923	1 225.665	1 675.195	1 961.597	2 156.742	2 235.096

SHARE OF EU IN TOTAL AND OF FOREIGN FLAG IN EU

EU-27 (**)	%							
Control of total	33.2	34.2	36.0	35.3	34.5	34.7	32.0	30.2
Foreign flag share (***)	56.5	68.1	67.8	69.4	75.5	82.2	83.4	83.7

NB: Only ships of 1 000 gt and over.

(*) In this table Europe includes EU-27, EFTA, Monaco, Gibraltar, Andorra, Türkiye, Western Balkan countries, Russia, Ukraine and Moldova, and Georgia (starting with 2023).

(**) EU-27 since 2012.

(***) Foreign flag share includes ships registered by EU countries in other EU countries.

Sea – WORLD MERCHANT FLEET BY TYPE OF SHIP

2.6.12b

FOR TRANSPORT OF GOODS AND PASSENGERS: FLEET BY TYPE OF SHIP AND COUNTRY OF CONTROL

NUMBERS AND DEADWEIGHT						
On 1 January 2024	Number			dwt (1 000)		
(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
TOTAL FLEET	50 257	12 314	25	2235 096	674 258	30
Tankers	14 569	1 858	13	805 114	111 197	14
of which:						
Crude oil and oil product tankers	6 729	1 378	20	575 650	177 480	31
Oil / chemical tankers	5 602	1 380	25	133 403	41 384	31
Liquid gas tankers	2 238	355	16	96 061	17 230	18
Bulk carriers	13 212	3 196	24	968 665	256 135	26
Container ships	6 083	2 387	39	328 568	143 503	44
General cargo	13 691	2 652	19	125 176	28 636	23
of which:						
Conventional cargo	9 494	1 495	16	35 707	5 992	17
Special cargo (*)	1 909	674	35	34 566	10 254	30
Pure car carriers	762	72	9	38 601	2 881	7
Reefer	563	119	21	3 280	1 021	31
Ro-Ro cargo	963	292	30	14 382	8 538	59
Passenger and passenger cargo	2 702	750	28	48 428	15 549	32

FOR TRANSPORT OF GOODS AND PASSENGERS / CARGO SHIPS / CRUISE SHIPS BY REGISTERED FLAG

NUMBERS AND GROSS TONS						
On 1 January 2024	Number			gt (1 000)		
(ships of 300 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
TOTAL	5 590	1 443	26	50 002	19 358	39
Cargo passenger and Ro-Ro passenger ships	3 246	880	27	20 194	10 474	52
Passenger (not Ro-Ro)	2 344	563	24	29 808	8 884	30

As mid 2024 (**)

(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
Cruise ships by registered flag	444	130	29	28 489	8 472	30

NB: (*) Including open hatch carriers.

(**) No deadweight figure is given for cruise ships, since dwt is a measure of the weight admissible in the vessel.

Ro-Ro: vehicles roll on to embark, vehicles roll off to disembark.

Reefer: refrigerated ships.

2.6.13

Air

PASSENGER AIRCRAFT

NUMBER OF CIVIL AIRCRAFT IN SERVICE

PASSENGER AIRCRAFT					
On 31 December 2024					
	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	TOTAL
EU-27	129	760	2 497	608	3 994
BE		17	35	11	63
BG		15	33	1	49
CZ	4	3	30		37
DK	19	13	36	4	72
DE	14	90	254	144	502
EE	3		14		17
IE	3	65	488	42	598
EL	12	24	66		102
ES	4	87	244	100	435
FR	46	114	151	141	452
HR		16	11		27
IT		26	2		28
CY		2	4		6
LV	1	36	15		52
LT	1	7	37		45
LU		15	6		21
HU	3		74		77
MT		18	402	12	432
NL	3	65	92	69	229
AT		17	176	8	201
PL	2	44	124	13	183
PT	4	24	63	29	120
RO		11	22	2	35
SI	1				1
SK			9		9
FI		29	22	26	77
SE	9	22	87	6	124
IS	10	3	42	2	57
LI					0
NO	30	18	43	13	104
CH	8	39	89	17	153
BA					
ME		2			2
MD		3	4		7
MK					
GE	1	5	4	1	11
AL			1		1
RS		21	3	3	27
TR	1	7	483	127	618
UA	2	3	7	2	14
UK	31	82	540	145	798

NB: More than 30 000 small private planes not included.
In this table blank means none.

Air

2.6.14

FREIGHT, SPECIAL, BUSINESS AIRCRAFT

NUMBER OF CIVIL AIRCRAFT IN SERVICE

FREIGHT, SPECIAL, BUSINESS AIRCRAFT					
On 31 December 2024					
	FREIGHT / CARGO		QUICK-CHANGE CONVERTIBLE	SPECIAL PURPOSE / AMBULANCE	BUSINESS / CORPORATE / EXECUTIVE
	under 100 000 lbs mtow	over 100 000 lbs mtow	(pass./cargo) Multi-role		
EU-27	85	326	6	207	2 852
BE		3		2	70
BG		16			22
CZ				1	204
DK		18	4	2	74
DE	7	76		51	677
EE	10				18
IE	11	33		2	12
EL	5			3	28
ES	22	23		84	70
FR		26	1	7	373
HR					10
IT		1		19	93
CY				1	3
LV	1	2			11
LT				1	3
LU		30		9	93
HU	5				37
MT	1	18			262
NL		4		4	79
AT	4	61		4	254
PL	12	3	1		121
PT				4	150
RO		2			24
SI		2			24
SK		5			24
FI	2			1	48
SE	5	3		12	68
IS		8		2	2
LI					
NO				14	25
CH	7			3	161
BA	1				2
ME					1
MD		9			1
MK					4
GE		15			1
AL					
RS					28
TR		33		22	138
UA					
UK	8	39		22	246

NB: Special purpose/Ambulance: contains data about Hospital/Ambulance/Medevac and Special Role/Operations/Mission aircraft.

mtow: maximum take-off weight.

In this table blank means none.

2.6.15

Rail

LOCOMOTIVES AND RAILCARS

STOCK OF VEHICLES

									%
	1990	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27		49 264	46 374	53 322	53 495	63 817	62 881	63 604	1.1
BE	1 727	1 670	1 518	1 341	1 238	1 238	1 350	1 350	0.0
BG	1 119	762	669	624	440	311	335	302	-9.9
CZ		3 802	3 354	3 024	2 963	3 186	3 339	3 539	6.0
DK	735	700	723	714	831	677	660	662	0.3
DE	14 437	8 789	12 957	15 613	16 613	17 010	17 703	18 166	2.6
EE	300	196	344	374	358	238	212	212	0.0
IE	166	224	412	572	482	482	482	481	-0.2
EL	400	247	294	306	258	217	218	215	-1.4
ES	1 922	1 693	1 674	2 183	2 229	1 722	1 767	1 887	6.8
FR	7 422	7 158	6 948	7 922	11 731	12 313	11 022	11 036	0.1
HR	563	478	377	344	298	267	224	224	0.0
IT	4 818	4 589	4 816	4 236	3 112	2 138	1 926	1 738	-9.8
CY	-	-	-	-	-	-	-	-	-
LV	739	429	353	356	359	305	262	268	2.3
LT	389	341	311	326	277	269	260	322	23.8
LU	97	124	145	91	126	134	130	131	0.8
HU	2 040	1 446	1 404	1 508	1 657	1 646	1 873	1 969	5.1
MT	-	-	-	-	-	-	-	-	-
NL	2 372	2 132	2 040	2 411	2 780	3 349	3 483	3 516	0.9
AT	1 543	1 530	1 500	2 081	1 972	2 006	1 456	1 996	37.1
PL	5 483	5 293	5 828	5 657	5 526	7 846	6 747	6 018	-10.8
PT	530	589	439	363	363	383	377	381	1.1
RO	4 515	3 440	2 186	2 158	2 095	2 779	2 916	2 968	1.8
SI	358	295	261	267	401	410	510	482	-5.5
SK		1 570	1 360	1 201	1 203	1 330	1 367	1 367	0.0
FI	669	735	702	644	650	641	641	641	0.0
SE	1 234	1 032	1 377	1 927	2 422	2 920	3 621	3 733	3.1
IS	-	-	-	-	-	-	-	-	-
NO	502	299	289	544	270	279	279	279	0.0
CH	1 254	1 528	2 198	1 745	1 694	1 509	1 092	1 077	-1.4
BA					187	188	188	188	0.0
ME						37	37	37	0.0
MD		193	187	182	166	166	168	164	-2.4
MK	92	101	73	63	53	59	67	67	0.0
GE				85	71	63	69	69	0.0
AL					63	38	38	38	0.0
RS					506	255	213	213	0.0
TR	897	849	735	673	864	901	901	1 275	41.5
UA									
UK	5 610		3 177	10 710	11 347	11 347	11 347	11 347	0.0

NB: Values on this table consider the declared values of locomotives (diesel + electric) and railcars (diesel + electric) and in some cases units. UIC data relates to main railway undertakings, therefore data is not fully comparable between countries.
 BE, SK, FI, NO, ME, MK, GE, AL, UK: figures in italics refer to value of previous year.
 DE: includes former GDR: 1990 = 6 331.
 CZ: 1990: 6 010.

Sources: Eurostat [rail_eq_locon], Union internationale des chemins de fer (BG, DE, HR, IT, NL, AT, SI, FI, NO, CH, RS), UNECE (ME, AL), national sources (BE, DK), estimates (in italics)

Rail

2.6.16

PASSENGER TRANSPORT VEHICLES

STOCK OF COACHES AND RAILCAR TRAILERS

	1990	2000	2005	2010	2015	2020	2022	2023	CHANGE '22/'23
EU-27		100 627	89 580	89 611	94 860	93 289	93 593	96 895	3.5
BE	3 286	3 494	3 251	3 412	2 345	3 838	3 838	4 023	4.8
BG	2 386	1 754		1 048	1 217	1 217	1 473	1 473	0.0
CZ		5 284	4 929	4 546	4 265	2 918	2 897	2 719	-6.1
DK	1 594	1 590	1 473	2 069	2 755	2 171	2 059	2 085	1.3
DE	24 139	21 097	20 169	18 565	18 990	17 874	18 233	18 560	1.8
EE	596	241	234	217	280	199	98	98	0.0
IE	314	421	581	592	426	426	426	426	0.0
EL	810	505	564	718	707	312	319	319	0.0
ES	3 839	4 315	5 236	5 365	4 292	4 323	4 227	5 852	38.4
FR	15 798	15 694	15 879	13 521	23 958	26 506	25 337	25 629	1.2
HR	1 052	720	579	523	545	527	491	542	10.4
IT	14 025	11 914	10 066	12 465	9 762	8 598	8 324	8 108	-2.6
CY	-	-	-	-	-	-	-	-	-
LV	1 226	702	490	238	374	370	370	269	-27.3
LT	664	563	467	337	217	165	154	154	0.0
LU	114	149	185	214	242	255	255	255	0.0
HU	4 385	3 191	3 060	2 788	2 619	2 056	2 003	2 247	12.2
MT	-	-	-	-	-	-	-	-	-
NL	2 268	2 742	852	2 824	2 791	3 274	3 415	3 451	1.1
AT	3 689	3 468	3 112	2 974	2 646	2 935	2 691	3 344	24.3
PL	11 928	9 761	8 843	7 885	7 409	6 392	7 164	7 467	4.2
PT	1 232	1 303	1 125	965	977	988	1 011	1 022	1.1
RO	6 352	6 234	3 310	3 037	2 329	1 702	2 281	2 311	1.3
SI	606	461	401	355	349	356	432	402	-6.9
SK		2 273	1 808	1 530	1 406	1 377	1 377	1 377	0.0
FI	957	1 003	1 084	1 071	1 101	1 226	1 226	1 226	0.0
SE	1 747	1 748	1 882	2 352	2 858	3 284	3 492	3 536	1.3
IS	-	-	-	-	-	-	-	-	-
NO	900	918	191	210	386	394	394	497	26.1
CH	4 136	3 333	4 293	4 949	5 245	5 940	6 294	6 358	1.0
BA		300	180	187	132	188	187	187	0.0
ME			83	68	68	27	25	25	0.0
MD		582	548	458	324	264	220	224	1.8
MK	175	164	125	64	67	67	65	65	0.0
GE						39	36	33	-8.3
AL		99	88	88	88	88	88	88	0.0
RS			784	784	817	464	397	359	-9.6
TR	1 049	1 185	1 131	1 119	1 124	857		1 682	
UA		8 667	11 812	7 315	5 226	3 826	3 742		
UK		10 424	10 934	11 751	12 304	12 304	12 304	12 304	0.0

NB: Different definitions and scope limit the comparability between countries.

UIC data relate to main railways (UIC members).

DE: includes former GDR: 1990 = 9635.

CZ: 1990 = 8597.

2.6.17

Rail

GOODS TRANSPORT WAGONS

STOCK OF VEHICLES

	1990	2000	2005	2010 (*)	2015 (*)	2020	2022	2023
EU-27								474 616
BE	30 332	18 891	17 077	12 821	12 821	12 821	12 491	12 491
BG	42 459	29 720	16 511	11 751	4 572	4 838	4 858	4 498
CZ		60 681	47 172	35 077	32 827	30 219	30 877	31 758
DK	4 632	2 236						336
DE	366 724	189 558	158 247	108 840	88 066	78 101	75 406	73 913
EE		5 857	18 971	17 575	21 501	22 852	22 709	21 498
IE	1 830	1 856	926	502	254	254	254	187
EL	10 967	3 453	3 491	3 158	3 522	715	712	710
ES	37 687	26 489	22 658	14 482	13 895	13 458	13 644	13 008
FR	148 100	110 972	95 238	89 101	81 084	68 099	65 943	67 535
HR	13 720	9 986	7 330	6 674	5 519	5 251	4 145	3 476
IT	99 728	70 115	45 730	30 331	20 270	13 173	9 681	9 702
CY	-	-	-	-	-	-	-	-
LV	11 085	9 146	8 871	9 033	9 807	6 107	5 709	5 092
LT	12 860	13 155	13 192	9 238	8 574	7 514	6 558	6 225
LU	2 719	2 626	3 222	4 147	3 006	3 154	3 145	3 090
HU		23 528	19 130	11 357	8 916	8 640	8 713	10 058
MT	-	-	-	-	-	-	-	-
NL	6 697	4 700						32 902
AT	34 330	23 970	22 655	21 015	19 294	17 511	17 401	17 217
PL	275 582	130 116	103 234	89 270	86 364	83 011	80 734	83 497
PT	4 579	4 162	3 495	3 194	3 283	2 719	2 225	2 050
RO	166 086	117 982	65 175	72 605	34 254	39 573	40 302	40 540
SI	8 692	6 258	4 465	3 627	3 386	2 762	2 336	2 369
SK		26 975	25 515	15 260	15 533	12 968	10 017	11 821
FI	15 200	12 630	11 216	10 464	8 854	8 763	8 763	9 293
SE	27 470	17 596	16 637	15 166				11 350
IS	-	-	-	-	-	-	-	-
NO								1 524
CH	27 104	19 894	18 339	8 794	6 467	5 344	4 992	4 900
BA				4 639	4 471	4 243	4 269	4 242
ME	-	-	-	-	-	561	561	454
MD		10 577		7 835	6 866	4 586	4 485	4 479
MK			1 525	1 144	1 161	1 238	1 238	1 238
GE						7 901	7 412	7 438
AL					360	165	114	114
RS					8 486	4 789	4 194	4 283
TR	21 941	17 872	17 499	17 773	19 077	16 951	16 529	16 511
UA		185 741	150 254	184 107	173 370	105 859	121 608	
UK	34 403							

NB: (*) Not including private-owners' vehicles, not fully comparable with data from previous years.

Different definitions and scope limit the comparability between countries.

UIC data relate to main railways (UIC members).

DE: includes former GDR: 1990 = 163 158.

Sources: Eurostat, Union internationale des chemins de fer (BG, DE, CH, TR, UA), European Railway Agency (2013 data for DK, NL, FI, SE, NO), national statistics (own estimates in *italics*)

Road fatalities

2.7.1

	1990	2000	2005	2010	2015	2020	2023	CHANGE '22/'23	% CHANGE '01/'23
EU-27	71 774	53 502	42 607	29 611	24 358	18 830	20 389	-1.3	-60.3
BE	1 976	1 470	1 089	850	762	499	501	-7.2	-66.3
BG	1 567	1 012	957	776	708	463	525	-1.1	-48.1
CZ	1 291	1 486	1 286	802	734	518	502	-4.7	-62.3
DK	634	498	331	255	178	163	162	5.2	-62.4
DE	11 046	7 503	5 361	3 648	3 459	2 719	2 839	1.8	-59.3
EE	436	204	170	79	67	59	59	20.4	-70.4
IE	478	418	400	212	162	141	180	18.4	-56.3
EL	1 737	2 037	1 658	1 258	793	584	646	-1.2	-65.6
ES	9 032	5 777	4 442	2 479	1 689	1 370	1 806	3.4	-67.3
FR	11 215	8 079	5 318	3 992	3 459	2 538	3 154	-3.3	-61.4
HR	1 360	655	597	426	348	237	274	-0.4	-57.7
IT	7 151	7 061	5 818	4 114	3 428	2 395	3 039	-3.8	-57.2
CY	101	111	102	60	57	48	34	-8.1	-65.3
LV	947	635	442	218	188	139	142	23.5	-74.6
LT	1 001	641	773	299	242	175	160	33.3	-77.3
LU	71	76	47	32	36	26	26	-27.8	-62.9
HU	2 432	1 200	1 278	740	644	460	472	-12.1	-61.9
MT	4	15	17	13	11	12	16	-42.9	0.0
NL	1 376	1 082	750	537	531	515	608	-7.2	-38.8
AT	1 558	976	768	552	479	344	402	8.6	-58.0
PL	7 333	6 294	5 444	3 908	2 938	2 491	1 893	-0.2	-65.8
PT	2 646	1 877	1 247	937	593	536	642	3.9	-61.6
RO	3 782	2 466	2 629	2 377	1 893	1 644	1 545	-5.4	-36.9
SI	517	314	258	138	120	80	82	-3.5	-70.5
SK	662	628	606	371	310	247	266	0.0	-56.7
FI	649	396	379	272	270	223	185	-5.6	-57.3
SE	772	591	440	266	259	204	229	0.9	-60.7
IS	24	32	19	8	16	8	8	-11.1	-66.7
NO	332	341	224	208	117	93	110	-5.2	-60.0
CH	954	592	409	327	253	227	236	-2.1	-56.6
BA		302	371	355	341	243	253	13.5	-0.4
ME				95	51	48	78	6.8	
MD		406	391	452	300	245	198	-8.8	-52.9
MK		162	143	162	148	125	127	2.4	18.7
GE		500	581	685	602	450	442	2.8	-20.8
AL		280	307	352	270	181	192	17.1	-35.4
RS				656	601	492	503	-8.9	
TR	6 317	5 510	4 505	4 045	7 530	4 866	6 548	25.2	49.3
UA		5 185	7 229	4 875	4 003	3 541			
UK	5 402	3 580	3 336	1 905	1 804	1 516	1 695	-4.0	-52.9

NB: Persons killed are all persons deceased within 30 days of the crash. Corrective factors have been applied to the figures which did not follow this definition. As of 2015 TR includes people deceased within 30 days after the crash (break in series). As of 2018 PT includes data for Azores and Madeira. For the NL, the number of fatalities registered by the police is under-reported and equates to around 85-90% of the total number of fatalities published nationally (total in 2023 was 684).

2.7.2 Road fatalities country rankings

FATALITIES

2023					
per million inhabitants		per 10 billion pkm		per million passenger cars	
SE	22	SE	22	SE	46
DK	27	DK	26	MT	50
MT	29	FI	30	FI	50
FI	33	IE	30	CY	55
IE	34	LU	31	DK	58
NL	34	SI	32	LU	58
DE	34	DE	32	DE	58
CY	36	EE	39	SI	67
ES	37	FR	41	NL	68
SI	39	IT	43	ES	68
LU	39	ES	44	EE	69
BE	43	NL	44	IT	75
EE	43	LT	45	IE	76
AT	44	CY	46	AT	78
EU-27	45	EU-27	46	CZ	78
FR	46	BE	47	EU-27	80
CZ	46	AT	48	FR	81
SK	49	CZ	54	BE	83
HU	49	MT	54	PL	88
IT	52	EL	55	LT	95
PL	52	HU	59	SK	102
LT	56	PT	63	EL	110
PT	61	PL	75	PT	110
EL	61	SK	84	HU	114
HR	71	BG	86	HR	146
LV	76	LV	100	BG	178
RO	81	HR	106	LV	183
BG	81	RO	119	RO	193

NB: Fatalities: all fatalities on the road: car drivers and passengers, bus and coach occupants, powered two-wheelers' riders and passengers, cyclists, pedestrians, commercial vehicle drivers, etc. indicated in table 2.7.1.
Pkm: indicator of traffic volume (in the absence of consistent vehicle-kilometre data); passenger-kilometres of cars indicated in table 2.3.4 plus (mostly estimated) passenger-kilometres of motorised two-wheelers.
Inhabitants: the average population in 2023, Eurostat [demo_gind]
Passenger cars: the average stock of vehicles indicated in table 2.6.2 for 2022 and 2023.

Road fatalities

BY TYPE OF USER

2.7.3a

	YEAR	TOTAL	DRIVERS	PASSENGERS	CYCLISTS	MOPED/MOTORBIKE RIDERS AND PASSENGERS	PEDESTRIANS	RIDERS OF MOTORISED MICROMOBILITY DEVICES	VULNERABLE ROAD USERS AS % OF TOTAL	PEDESTRIANS AS % OF TOTAL
BE	2023	501	206	43	101	67	77	2	49%	15%
BG	2023	525	215	143	14	53	97	3	32%	18%
CZ	2023	502	229	60	55	76	82	0	42%	16%
DK	2023	162	54	20	28	27	32	1	54%	20%
DE	2023	2 839	1 076	304	446	550	442	21	51%	16%
EE	2023	59	18	12	5	6	18	0	49%	31%
IE	2023	180	63	36	9	26	45	1	45%	25%
EL	2023	646	227	60	10	247	102	0	56%	16%
ES	2023	1 806	622	246	90	485	353	10	52%	20%
FR	2023	3 154	1 357	400	221	706	426	44	44%	14%
HR	2023	274	90	44	18	76	45	0	51%	16%
IT	2023	3 039	1 152	367	212	802	485	21	50%	16%
CY	2023	34	16	5	1	5	7	0	38%	21%
LV	2022	115	41	18	12	12	30	1	48%	26%
LT	2023	160	66	22	11	20	34	2	42%	21%
LU	2023	26	11	4	2	5	4	0	42%	15%
HU	2023	472	185	90	43	51	103	0	42%	22%
MT	2023	16	3	1	0	5	7	0	75%	44%
NL	2023	608	187	61	208	79	73	0	59%	12%
AT	2023	402	158	55	42	92	52	3	47%	13%
PL	2023	1 893	712	328	154	238	458	3	45%	24%
PT	2023	642	214	92	33	194	109	0	52%	17%
RO	2023	1 545	470	348	160	95	472	0	47%	31%
SI	2023	82	32	17	9	11	12	0	39%	15%
SK	2023	266	109	41	13	28	75	0	44%	28%
FI	2023	185	96	25	20	21	23	0	35%	12%
SE	2022	227	103	33	23	41	27	0	40%	12%

NB: Persons deceased within 30 days of the crash.

Totals include the victims labelled as 'Unknown'.

Vulnerable road users comprise pedestrians, cyclists, moped and motorbike riders, and riders of motorised micromobility devices.

2.7.3b Road fatalities of vehicle occupants

BY TYPE OF VEHICLE

	YEAR	TOTAL	CAR & TAXI	MOTOR CYCLE	MOPED	BUS AND COACH	PEDAL CYCLE	AGRICULTURAL TRACTOR	HEAVY GOODS VEHICLE	LORRY, <3.5 TONNES	OTHER OR UNKNOWN
BE	2023	424	211	51	16	2	101	0	8	26	9
BG	2023	428	313	50	3	5	14	1	26	1	15
CZ	2023	420	242	76	-	2	55	3	14	19	9
DK	2023	130	64	13	14	0	28	0	3	6	2
DE	2023	2 397	1 192	497	53	16	446	18	61	54	60
EE	2023	41	16	6	0	1	5	0	4	-	9
IE	2023	135	85	26	-	0	9	0	9	-	6
EL	2023	544	245	218	29	0	10	4	5	25	8
ES	2023	1 453	703	455	30	6	90	19	42	63	45
FR	2023	2 728	1 512	611	95	5	221	18	45	125	96
HR	2023	229	117	70	6	2	18	4	0	11	1
IT	2023	2 554	1 332	734	68	28	212	17	56	56	51
CY	2023	34	14	5	0	0	1	0	0	5	2
LV	2022	85	50	11	1	1	12	0	3	3	4
LT	2023	126	78	20	0	0	11	1	0	7	9
LU	2023	22	13	5	0	0	2	0	0	2	0
HU	2023	369	240	39	12	2	43	-	10	17	6
MT	2023	9	4	5	0	0	0	-	0	0	0
NL	2023	535	200	46	33	0	208	0	2	17	29
AT	2023	350	178	82	10	3	42	4	3	14	14
PL	2023	1 435	922	196	42	8	154	10	23	63	17
PT	2023	533	230	165	29	0	33	12	8	45	11
RO	2023	1 073	677	72	23	6	160	5	12	52	66
SI	2023	70	28	8	3	0	9	2	1	1	18
SK	2023	191	134	16	12	1	13	1	1	9	4
FI	2023	162	95	20	1	0	20	7	1	12	6
SE	2022	200	107	30	11	2	23	5	2	12	8

NB: Persons deceased within 30 days of the crash.
Pedestrians killed are excluded from this table (see 2.7.3a).

Road accidents

2.7.4

NUMBER OF ACCIDENTS INVOLVING PERSONAL INJURY

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2023	CHANGE '22/'23
EU-27	1236477	1195684	1263536	1138269	973596	944253	749227	902530	1.2
BE	62 446	50 744	49 065	49 307	45 745	40 300	30 232	36 855	-2.1
BG	6 478	7 435	6 886	8 224	6 610	7 226	5 710	6 993	5.9
CZ	21 910	28 746	25 445	25 239	19 675	21 561	18 419	20 769	5.3
DK	9 155	8 373	7 346	5 413	3 498	2 853	2 527	2 438	-4.9
DE	389 350	388 003	382 949	336 618	288 297	305 659	264 499	291 890	0.8
EE	2 099	1 644	1 504	2 341	1 348	1 391	1 409	1 676	0.3
IE	6 067	8 117	7 749	6 533	5 779	5 831	4 429	5 517	-11.4
EL	19 609	22 798	23 001	16 914	15 032	11 440	9 083	10 553	0.6
ES	101 507	83 586	101 729	91 187	85 503	97 756	72 959	101 306	3.5
FR	162 573	132 949	121 223	84 525	67 288	56 600	45 117	51 627	-1.4
HR	14 471	12 668	14 430	15 679	13 274	11 038	7 709	10 633	6.3
IT	161 782	182 761	256 546	240 011	212 997	174 539	118 298	166 525	0.4
CY	3 172	3 052	2 411	1 382	1 198	660	341	320	-14.0
LV	4 325	4 056	4 482	9 310	3 193	3 692	3 403	3 384	0.0
LT	5 135	4 144	5 807	6 772	3 530	3 031	2 826	2 843	-1.2
LU	1 216	1 145	899	775	876	983	771	1 101	0.6
HU	27 801	19 817	17 493	20 777	16 308	16 331	13 778	14 452	-2.0
MT	238	969	1 253	848	577	1 377	1 004	1 390	3.5
NL	44 892	42 641	42 271	27 007	10 778	18 523	17 043	23 795	4.0
AT	46 338	38 956	42 126	40 896	35 348	37 960	30 670	35 809	2.7
PL	50 532	56 904	57 331	48 100	38 832	32 967	23 540	20 936	-1.8
PT	45 110	48 339	44 463	37 066	35 426	31 953	27 725	36 595	6.8
RO	9 708	9 119	7 889	19 819	25 995	28 944	22 806	28 962	3.4
SI	5 177	6 567	8 951	10 509	7 659	6 578	4 776	6 011	0.5
SK	8 236	8 713	7 884	7 903	6 131	5 172	4 302	4 594	2.5
FI	10 175	7 812	6 633	7 020	6 072	5 185	3 608	2 944	-5.3
SE	16 975	15 626	15 770	18 094	16 627	14 703	12 243	12 612	0.0
IS	564	1 057	979	671	883	912	727	977	8.1
NO	8 801	8 625	8 440	8 088	6 434	4 563	3 502	3 359	-3.0
CH	23 834	23 030	23 737	21 706	19 609	17 736	16 897	18 254	-0.8
BA				4 417	7 466	7 636	6 317	7 729	5.3
ME					9 138	4 944	4 595	6 573	15.8
MD		2 695	2 580	2 290	2 929	2 559	2 005	1 982	-13.5
MK	2 300	2 436	1 667	2 821	4 223	3 854	3 696	4 274	8.2
GE			1 708	3 870	5 099	6 432	4 999	5 594	2.3
AL		399	428	853	1 564	1 992	1 234	1 285	10.3
RS					14 179	13 638	12 311	13 461	1.5
TR	55 771	66 029	75 201	87 273	116 804	183 011	150 275	235 071	19.2
UA		43 152	33 339	46 485	31 914	25 493	26 140		
UK	265 600	237 336	242 117	203 712	160 080	146 203	95 422	109 316	-1.6

NB: The definition of a crash involving personal injury differs from country to country.

RO: only serious accidents before 2005.

As of 2018 PT includes data for Azores and Madeira.

2.7.5

Railway fatalities

NUMBER OF RAILWAY PASSENGERS KILLED
IN ACCIDENTS INVOLVING RAILWAY

	1990	2000	2005	2010	2015	2018	2019	2020	2021	2022	2023
EU-27			58	63	27	13	16	10	5	20	54
BE	0	3	0	18	0	0	0	0	0	0	0
BG			3	0	2	0	0	0	0	1	0
CZ		1	4	2	6	0	1	2	2	0	2
DK	1	3	0	0	0	0	8	0	0	0	0
DE	50	38	7	0	3	1	0	1	0	8	0
EE			0	0	0	0	0	0	0	0	0
IE	1	2	0	0	0	0	0	0	0	0	0
EL	0	20	0	1	0	0	1	0	0	0	49
ES	4	0	1	15	0	0	0	0	1	0	0
FR	30	15	5	2	4	0	2	2	0	4	2
HR			1	1	0	0	0	0	0	1	0
IT	9	8	22	7	2	4	1	1	1	1	0
CY	-	-	-	-	-	-	-	-	-	-	-
LV			0	0	0	0	1	0	0	0	0
LT			0	0	0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0	0	0	0	0
HU	33	11	6	3	3	3	1	3	0	0	0
MT	-	-	-	-	-	-	-	-	-	-	-
NL	2	0	0	0	0	0	0	0	0	0	0
AT	6	4	1	0	1	1	0	0	0	1	0
PL	21	20	0	7	3	2	0	0	1	3	1
PT	22	2	7	1	0	0	0	0	0	1	0
RO		0	1	4	3	0	0	1	0	0	0
SI		0	0	0	0	1	0	0	0	0	0
SK		0	0	0	0	1	1	0	0	0	0
FI	0	2	0	0	0	0	0	0	0	0	0
SE	3	0	0	2	0	0	0	0	0	0	0
IS	-	-	-	-	-	-	-	-	-	-	-
NO	4	32	0	0	0	1	0	0	0	0	0
CH	8	2	3	0	0	0	0	0	0	0	0
BA											
ME					0	0	0				
MD											
MK				0	0	0	0	0	0	0	0
AL											
RS					0	0	0				
TR	17	9	10	3	0	32	1	0	0	0	
UA						0					
UK	37	20	8	0	0	3*	0	1			

NB: (*) Includes the figure for Channel Tunnel (2 in 2018).

Air LIVES LOST

2.7.6

PERIOD	Lives lost over EU-27 territory by any operator	Lives lost by EU-27 operators anywhere
1990	0	46
1991	32	264
1992	154	147
1993	8	6
1994	3	7
1995	119	70
1996	12	11
1997	71	1
1998	24	62
1999	40	63
2000	112	110
2001	120	123
2002	96	25
2003	3	3
2004	0	0
2005	144	128
2006	3	4
2007	0	0
2008	154	154
2009	9	228
2010	0	0
2011	6	6
2012	1	1
2013	0	0
2014	0	120
2015	150	150
2016	2	2
2017	0	0
2018	0	0
2019	0	0
2020	0	0
2021	0	0
2022	12 (**)	10 (***)
2023	0	0
2024	3	3
1970 - 1979/yr.(*)	312	328
1980 - 1989/yr.(*)	179	128
1990 - 1999/yr.	46	68
2000 - 2009/yr.	64	78
2010 - 2023/yr.	11	19

NB: (*) UK is included.

(**) 4 fatalities in international waters - Baltic Sea by an EU operator (business flight), 8 fatalities by foreign AN12-BK cargo flight in Greece.

(***) 2 business flights; 4 fatalities occurred on EU territory and are also included in the column 'Lives lost over EU territory by any operator'.

Onboard fatalities, and only those in complex aeroplanes with a maximum certificated take-off mass exceeding 5 700 kg or equipped with (a) turbofan engine(s) or more than one turboprop engine.

Data include fatalities from Commercial Air Transport (passenger, cargo, air taxi, ferry/positioning and emergency medical service) and fatalities from General Aviation (only 'Business' flights).

2.7.7

Sea

SHIPS LOST (WORLD) – BY TYPE

YEAR	TANKERS		BULKERS AND COMBINED CARRIERS		OTHER SHIPS	
	N°	1 000 gt	N°	1 000 gt	N°	1 000 gt
1996	13	58	14	247	59	294
1997	13	308	6	137	58	274
1998	5	26	11	160	62	323
1999	6	71	11	277	55	283
2000	10	173	21	394	68	248
2001	9	202	12	341	88	319
2002	10	119	10	234	77	454
2003	9	158	8	107	74	274
2004	18	104	6	103	62	277
2005	11	103	8	117	79	309
2006	11	35	9	397	70	294
2007	6	34	11	197	70	311
2008	9	105	7	105	55	259
2009	14	214	15	335	67	353
2010	12	35	16	431	82	375
2011	8	102	20	452	56	281
2012	12	93	4	83	43	314
2013	3	10	11	257	46	291
2014	6	17	2	43	46	267
2015	6	41	10	133	40	267
2016	1	2	4	124	35	123
2017	3	7	4	196	41	168
2018	3	90	5	92	30	97
2019	3	9	2	69	40	225
2020	5	8	2	254	27	152
2021	2	1	2	69	45	167
2022	9	13	3	34	39	370
2023	6	66	6	42	39	154

NB: Reported world total losses at time of loss; ships of 500 gt and over.

PART 3

ENERGY AND ENVIRONMENT



PART 3

SUMMARY

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Glossary

3.1.1

Conventional thermal power:

Technology for the production of electricity by combustion. May or may not include biomass use, which is also considered a renewable source of electricity.

Energy dependency:

Energy dependency shows the extent to which a country relies upon imports in order to meet its energy needs. It is calculated using the following formula: $\text{net imports} / \text{gross available energy}$.

Energy intensity:

Energy intensity gives an indication of the effectiveness with which energy is being used to produce added value. It is defined as the ratio of gross inland consumption of energy to gross domestic product.

Final energy consumption (FEC):

Final energy consumption is the energy finally consumed in the transport, industrial, commercial, agricultural, public and household sectors. It excludes deliveries to the energy transformation sector and to the energy industries themselves, along with energy consumption in international maritime and air transport.

Gross calorific value (GCV):

The gross calorific value is the total amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature.

This quantity includes the heat of condensation of any water vapour contained in the fuel and of the water vapour formed by the combustion of any hydrogen contained in the fuel.

Gross inland consumption (GIC):

Gross inland consumption is the quantity of energy consumed within the borders of a country. It is calculated using the following formula: $\text{primary production} + \text{recovered products} + \text{imports} + \text{stock changes} - \text{exports} - \text{international maritime bunkers}$.

Net calorific value (NCV):

The net calorific value is the amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature.

This quantity does not include the heat of condensation of any water vapour contained in the fuel or of the water vapour formed by the combustion of any hydrogen contained in the fuel.

Primary energy production:

Primary energy production is the extraction of energy from a natural source. The precise definition depends on the fuel involved, as described below.

Solid fuels: hard coal, lignite

Quantities of fuels extracted or produced, calculated after any operation for removal of inert matter. In general, production includes the quantities consumed by the producer during the production process (e.g. for heating or operation of equipment and auxiliaries), along with any quantities supplied to other on-site producers of energy for transformation or other uses.

3.1.1

Glossary

Crude oil:

Quantities of fuels extracted or produced within national boundaries, including off-shore production. Production includes only marketable production, and excludes any quantities returned to formation. Production includes all crude oil, natural gas liquids (NGL), condensates and oil from shale and tar sands, etc.

Natural gas:

Quantities of dry gas, measured after purification and extraction of natural gas liquids and sulphur. The production includes only marketable production, and excludes any quantities reinjected, vented and flared, and any extraction losses. The production includes all quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants.

Nuclear heat:

Quantities of heat produced in a reactor. Production is the actual heat produced or the heat calculated on the basis of the gross electricity generated and the thermal efficiency of the nuclear plant.

Hydropower, wind energy, solar photovoltaic energy:

Quantities of electricity generated. Production is calculated on the basis of the gross electricity generated and a conversion factor of 3600 kJ/kWh.

Geothermal energy:

Quantities of heat extracted from geothermal fluids. Production is calculated on the basis of the difference between the enthalpy of the fluid produced in the production borehole and that of the fluid disposed of via the reinjection borehole.

Biomass / wastes:

In the case of municipal solid wastes (MSW), wood, wood wastes and other solid wastes, production is the heat produced after combustion and corresponds to the heat content (NCV) of the fuel. In the case of anaerobic digestion of wet wastes, production is the heat content (NCV) of the biogases produced. The production includes all quantities of gas consumed in the installation for the fermentation processes, and excludes all quantities of flared gases. In the case of biofuels, the production is the heat content (NCV) of the fuel.

Pumped storage:

Method for storing electrical energy at hydroelectric installations by pumping water between reservoirs at different altitudes.

Renewable energy sources (RES):

Renewable energy includes hydroelectricity, biomass, wind, solar, tidal and geothermal energy.

Tonne of oil equivalent (toe):

Tonne of oil equivalent is a conventional standardised unit for measuring energy, defined on the basis of a tonne of oil with a net calorific value of 41 868 kilojoules/kg.

1 ktoe = 1 000 toe

1 Mtoe = 1 000 000 toe

Average calorific values – Energy content

3.1.2

		kJ (NCV)	kgoe (NCV)
Hard coal	1 kg	17 200 – 30 700	0.411 – 0.733
Recovered hard coal	1 kg	13 800 – 28 300	0.330 – 0.676
Patent fuels	1 kg	26 800 – 31 400	0.640 – 0.750
Hard coke	1 kg	28 500	0.681
Brown coal	1 kg	5 600 – 10 500	0.134 – 0.251
Black lignite	1 kg	10 500 – 21 000	0.251 – 0.502
Peat	1 kg	7 800 – 13 800	0.186 – 0.330
Brown coal briquettes	1 kg	20 000	0.478
Tar	1 kg	37 700	0.900
Benzol	1 kg	39 500	0.943
Crude oil	1 kg	41 600 – 42 800	0.994 – 1.022
Refinery gas	1 kg	50 000	1.194
LPG	1 kg	46 000	1.099
Motor gasoline	1 kg	43 200	1.032
Kerosenes, jet fuels	1 kg	43 000	1.027
Naphtha	1 kg	44 000	1.051
Gas diesel oil	1 kg	42 300	1.010
Residual fuel oil	1 kg	40 000	0.955
White spirit	1 kg	44 000	1.051
Lubricants	1 kg	42 300	1.010
Bitumen	1 kg	37 700	0.900
Petroleum cokes	1 kg	31 400	0.750
Other petroleum products	1 kg	30 000	0.717

3.1.3

Conversion factors

ENERGY

TO:		TJ	Gcal	Mtoe	GWh
FROM:		MULTIPLY BY			
TJ		1	238.8	2.388×10^{-5}	0.2778
Gcal		4.1868×10^{-3}	1	1×10^{-7}	1.163×10^{-3}
Mtoe		4.1868×10^4	1×10^7	1	11630
GWh		3.6	860	8.6×10^{-5}	1

VOLUME

TO:		Barrel	Litre	US gallon	UK gallon
FROM:		MULTIPLY BY			
Barrel		1	158.99	42	34.9723
Litre		0.6290×10^{-2}	1	0.2642	0.2200
US gallon		0.2381×10^{-1}	3.7854	1	0.8327
UK gallon		0.2859×10^{-1}	4.5461	1.2009	1

MASS

TO:		Tonne	Long ton	Short ton
FROM:		MULTIPLY BY		
Tonne (t)		1	0.9842	1.1023
Long ton (lt) UK		1.0160	1	1.1200
Short ton (st) US		0.9072	0.8929	1

DECIMAL PREFIXES

10^1	deca (da)	10^{-1}	deci (d)
10^2	hecto (h)	10^{-2}	centi (c)
10^3	kilo (k)	10^{-3}	milli (m)
10^6	mega (M)	10^{-6}	micro (μ)
10^9	giga (G)	10^{-9}	nano (n)
10^{12}	tera (T)	10^{-12}	pico (p)
10^{15}	peta (P)	10^{-15}	femto (f)
10^{18}	exa (E)	10^{-18}	atto (a)

Energy statistics for EU-27

3.1.4

Mtoe	1990	1995	2000	2005	2010	2015	2020	2023
Production (*)	741.6	705.4	675.6	702.7	695.3	657.1	572.0	552.4
Solid fuels	315.1	246.1	194.9	183.4	153.8	139.1	86.9	78.7
Oil & petroleum products	40.4	39.5	44.6	45.9	33.1	28.3	21.3	18.8
Gas	123.1	127.3	112.2	111.1	109.5	72.4	41.2	29.4
Nuclear	188.6	204.5	222.1	236.8	219.6	203.8	175.2	158.0
Renewables	70.7	82.5	96.0	118.3	168.8	201.3	233.6	254.3
Waste, non-renewable	3.7	5.5	5.9	7.2	10.6	12.3	13.9	13.3
Net imports	744.8	773.8	865.7	954.5	895.4	833.6	792.4	781.5
Solid fuels	71.5	67.8	83.3	97.9	93.7	96.0	50.3	51.2
Oil & petroleum products	540.7	560.4	578.5	606.1	550.2	513.6	460.4	477.8
Gas	129.5	144.9	202.8	248.2	245.9	220.6	273.5	245.7
Electricity	2.9	0.4	0.8	0.6	0.4	-0.6	1.2	0.0
Renewables	0.2	0.3	0.3	1.7	5.1	3.6	6.4	6.2
Other (**)	0.0	0.0	0.0	0.0	0.1	0.4	0.5	0.6
Gross inland consumption	1 456.7	1 451.6	1 498.2	1 603.8	1 559.7	1 449.0	1 340.1	1 299.9
Solid fuels	392.6	317.7	284.4	280.4	252.5	239.6	144.7	128.9
Oil & petroleum products	547.9	570.1	579.8	598.6	538.9	491.5	437.1	465.2
Gas	249.8	270.6	308.6	359.7	362.8	296.1	327.0	272.6
Nuclear	188.6	204.5	222.1	236.8	219.6	203.8	175.2	158.0
Renewables	71.0	82.8	96.4	119.9	174.0	204.9	239.4	260.6
Other (***)	6.7	5.9	6.9	8.3	11.8	13.2	16.7	14.6
Gross electricity generation (TWh)	2 275.3	2 409.4	2 658.3	2 926.7	2 984.1	2 906.7	2 789.7	2 748.6
Bunker fuels								
International maritime	33.2	32.8	40.4	47.2	46.7	39.6	39.0	39.3
International aviation	18.2	22.5	28.6	31.1	32.1	34.6	18.0	38.4
Final energy consumption by fuel/product	906.5	892.5	926.1	986.7	973.9	911.3	886.3	873.4
Solid fuels	104.3	63.9	42.2	35.6	33.0	28.9	23.6	19.1
Oil & petroleum products	374.6	381.5	397.1	405.5	366.5	339.3	310.2	326.6
Gas	170.8	186.9	205.1	222.8	217.7	193.1	194.9	172.0
Electricity	162.2	168.7	189.0	209.4	215.9	210.6	204.9	200.3
Renewables	38.6	43.6	48.8	60.7	86.5	90.6	103.9	110.5
Other (**)	56.0	47.8	43.9	52.6	54.3	48.8	48.8	45.0
by sector								
Industry	310.2	271.6	271.0	275.1	243.9	234.3	231.8	214.7
Transport (****)	220.7	235.9	262.9	281.6	280.0	273.1	251.7	279.3
Rail	7.5	7.5	7.4	6.8	6.3	5.4	4.7	5.2
Road	201.6	218.0	243.2	260.2	260.6	255.8	238.0	262.1
Domestic aviation	5.0	4.3	5.7	5.8	5.6	5.4	3.0	6.2
Domestic navigation	5.2	5.1	5.2	5.6	5.0	3.9	3.6	3.9
Consumption in pipeline transport, etc.	1.4	1.0	1.4	3.2	2.4	2.5	2.2	1.9
Households	239.8	249.7	248.6	266.3	279.6	245.7	248.3	229.3
Agriculture and fishing	33.4	31.4	28.4	28.4	26.7	25.9	29.8	27.8
Services, etc.	102.3	104.0	115.2	135.2	143.7	132.3	124.8	122.2
CO₂ emissions (Mt) (*****)	3 935.2	3 713.4	3 697.7	3 844.0	3 538.1	3 215.5	2 694.9	2 614.6
Primary energy intensity 2020-2030 (toe/M€ '15)	166.5	152.6	136.3	134.4	124.5	110.0	97.6	86.4
CO ₂ intensity (tCO ₂ /toe)	2.70	2.56	2.47	2.40	2.27	2.22	2.01	2.01
Import dependency, %	50.0	52.1	56.3	57.8	55.7	56.0	57.5	58.4
RES share in transport, % (*****)	0.0	0.0	0.0	1.8	5.5	6.8	10.3	10.8

NB: (*) Including recovered products. (**) Derived heat & industrial waste. (***) Electrical energy & industrial waste. (****) Excluding international aviation, in line with changes in the energy balance methodology. (***** Source: European Environment Agency (EEA), April 2025, including international aviation and indirect CO₂, but excluding international maritime and LULUCF (land use, land-use change and forestry). (*****) Renewables share in transport, according to the definition of the Directive 2009/28/EC for years up to 2020 and according to Directive (EU) 2018/2001 from 2021.

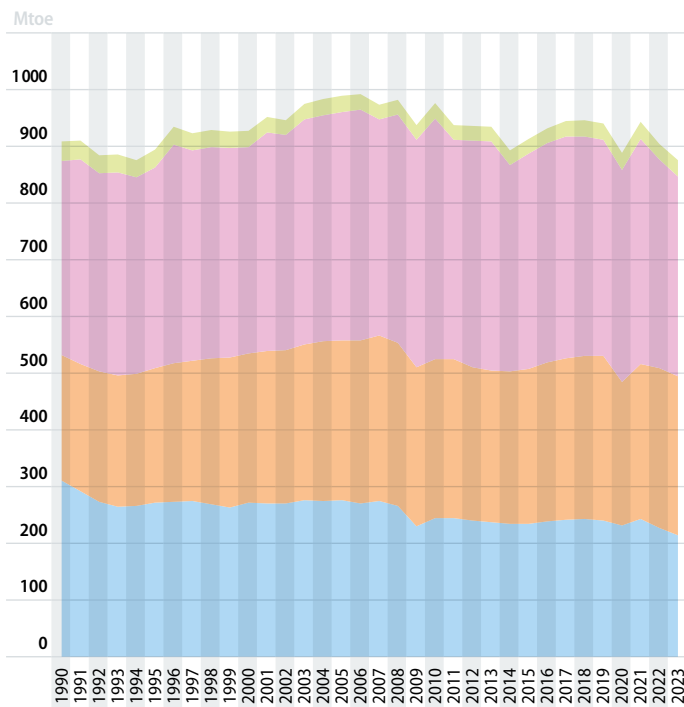
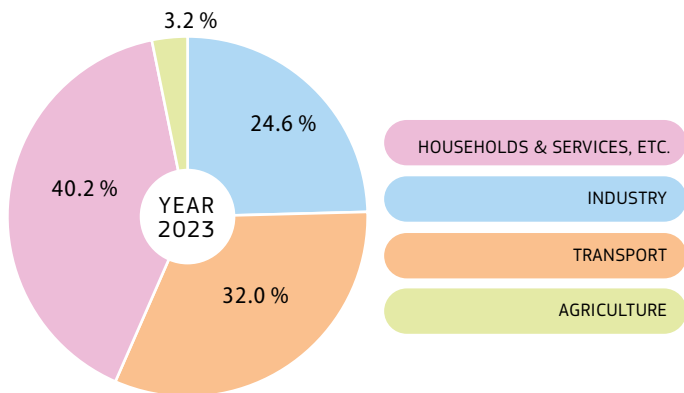
3.1.5

Final energy consumption 2023 – BY SECTOR (MTOE)

	ALL SECTORS	INDUSTRY	TRANSPORT	Road	Railways	Domestic aviation	Domestic navigation	Consumption in pipeline transport, etc.	HOUSEHOLDS, SERVICES, ETC.	Households	Agriculture	Services, etc.
EU-27	873.4	214.7	279.3	262.1	5.2	6.2	3.9	1.9	379.3	229.3	27.8	122.2
Share	100 %	25 %	32 %	30 %	1 %	1 %	0 %	0 %	43 %	26 %	3 %	14 %
BE	29.8	9.3	8.9	8.5	0.1	0.0	0.1	0.0	11.7	7.0	0.9	3.9
BG	9.5	2.5	3.5	3.4	0.0	0.0	0.0	0.1	3.5	2.0	0.2	1.3
CZ	22.7	6.0	7.0	6.8	0.2	0.0	0.0	0.0	9.7	6.4	0.6	2.7
DK	13.0	2.2	4.0	3.7	0.1	0.0	0.1	0.0	6.8	4.2	0.7	2.0
DE	179.7	50.1	49.2	46.7	1.3	0.4	0.2	0.7	80.5	52.9	3.7	23.9
EE	2.6	0.3	0.8	0.8	0.0	0.0	0.0	0.0	1.4	0.9	0.1	0.4
IE	11.0	2.1	4.1	4.0	0.0	0.0	0.1	0.0	4.8	2.5	0.3	1.9
EL	15.0	2.5	6.1	5.2	0.0	0.3	0.6	0.0	6.4	3.8	0.3	2.4
ES	77.6	18.5	32.2	28.2	0.3	2.6	0.9	0.1	27.0	13.9	2.6	10.5
FR	128.6	24.0	44.1	41.1	0.9	1.4	0.5	0.1	60.5	36.3	4.5	19.7
HR	6.9	1.2	2.5	2.4	0.0	0.0	0.0	0.0	3.3	2.2	0.3	0.8
IT	107.9	23.5	37.1	34.6	0.5	1.0	0.5	0.4	47.3	27.6	3.0	16.8
CY	1.6	0.3	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.3
LV	3.8	0.9	1.0	1.0	0.0	0.0	0.0	0.0	1.8	1.1	0.2	0.5
LT	5.3	0.9	2.1	2.1	0.0	0.0	0.0	0.0	2.3	1.5	0.1	0.6
LU	2.9	0.5	1.5	1.5	0.0	0.0	0.0	0.0	0.9	0.5	0.0	0.4
HU	16.5	4.0	4.9	4.8	0.1	0.0	0.0	0.0	7.6	5.4	0.6	1.7
MT	0.6	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1
NL	38.2	11.6	9.5	9.0	0.2	0.0	0.3	0.0	17.1	7.7	3.1	6.2
AT	23.9	6.9	7.4	7.0	0.2	0.0	0.0	0.1	9.5	6.6	0.5	2.4
PL	69.0	13.7	23.7	23.3	0.4	0.0	0.0	0.1	31.6	19.9	3.6	8.1
PT	16.5	4.3	6.2	5.9	0.1	0.2	0.1	0.0	6.0	3.0	0.5	2.5
RO	23.3	5.0	7.7	7.5	0.2	0.0	0.0	0.0	10.6	7.6	0.5	2.6
SI	4.5	1.1	1.8	1.8	0.0	0.0	0.0	0.0	1.6	1.0	0.1	0.5
SK	9.2	2.9	2.6	2.5	0.0	0.0	0.0	0.1	3.7	2.4	0.1	1.1
FI	22.5	9.3	3.8	3.5	0.1	0.0	0.1	0.0	9.4	5.5	0.7	3.2
SE	31.2	11.3	6.5	6.0	0.2	0.1	0.1	0.0	13.3	7.1	0.6	5.7
IS	3.0	1.4	0.3	0.3	0.0	0.0	0.0	0.0	1.3	0.5	0.4	0.5
NO	19.6	6.1	4.9	3.2	0.1	0.4	1.2	0.1	8.6	4.7	0.7	3.2
CH												
BA	4.1	0.6	1.4	1.3	0.0	0.0	0.0	0.0	2.2	1.8	0.1	0.4
ME	0.8	0.1	0.3	0.3	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.1
MD	2.3	0.2	0.7	0.7	0.0	0.0	0.0	0.0	1.4	1.0	0.1	0.3
MK	1.8	0.3	0.8	0.8	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.2
GE												
AL	1.9	0.4	0.6	0.6	0.0	0.0	0.0	0.0	0.8	0.5	0.1	0.2
RS	9.3	2.2	2.6	2.6	0.0	0.0	0.0	0.0	4.4	3.4	0.1	0.9
TR	110.2	32.5	32.9	30.9	0.2	1.3	0.3	0.1	44.8	25.7	5.5	13.6
UA												
UK												

Final energy consumption EU-27 – BY SECTOR (MTOE)

3.1.5



NB: Transport excluding international aviation and maritime.

3.1.6 Final consumption of motor gasoline. diesel. biofuels & biogas for transport 2023 – BY FUEL (KTOE)

	TOTAL FINAL CONSUMPTION OF MOTOR GASOLINE AND DIESEL OIL FOR TRANSPORT (*)	Motor gasoline	Gas / Diesel oil	BIOFUELS AND BIOGAS	Biogasoline	Biodiesel	Biogas	Bio jet kerosene	Other liquid biofuels (**)
EU-27	239 502.2	69 218.4	170 283.8	17 658.9	3 549.2	13 974.6	92.8	25.5	16.8
BE	7 693.8	2 260.8	5 433.0	814.3	183.7	630.6			
BG	2 698.1	519.1	2 179.0	177.0	21.1	155.9			
CZ	6 391.3	1 679.9	4 711.3	303.9	62.6	241.3	0.1		
DK	3 617.0	1 212.1	2 405.0	216.7	84.0	132.7			
DE	43 390.6	15 250.0	28 140.7	2 984.4	786.7	2 195.3			2.4
EE	781.5	209.6	571.9	30.1	2.3	20.1	7.7		
IE	3 761.3	743.5	3 017.9	301.9	32.8	268.8			0.3
EL	5 287.7	2 239.6	3 048.1	0.0					
ES	26 399.5	6 094.0	20 305.5	1 903.6	153.7	1 749.9			
FR	37 882.7	9 979.1	27 903.5	3 193.8	844.7	2 340.3		8.8	
HR	2 402.4	554.6	1 847.8	0.3		0.3			
IT	30 855.3	8 556.7	22 298.6	1 503.0	85.1	1 403.8	0.0		14.0
CY	658.1	343.4	314.7	21.3		21.3			
LV	964.2	148.0	816.2	11.8	8.7	3.1			
LT	1 892.0	291.5	1 600.5	118.1	20.4	97.7			
LU	1 364.3	358.6	1 005.8	125.4	23.3	102.1			0.0
HU	4 464.5	1 438.7	3 025.8	312.7	87.0	225.7			
MT	249.6	88.3	161.3	13.3		13.3			
NL	8 424.1	4 059.0	4 365.1	546.4	257.5	288.9			
AT	6 522.8	1 533.9	4 989.0	495.6	99.8	395.2	0.6	0.0	
PL	19 918.2	5 195.7	14 722.5	1 290.6	243.6	1 047.0			
PT	5 488.7	1 210.5	4 278.1	355.0	25.4	329.7			
RO	6 958.1	1 407.1	5 550.9	530.4	154.8	375.6			
SI	1 700.0	453.2	1 246.8	94.9	8.6	86.2			
SK	2 343.7	582.2	1 761.5	165.1	38.7	126.4			
FI	3 011.4	1 087.4	1 924.0	574.6	136.6	424.9	8.9	4.1	
SE	4 381.3	1 721.8	2 659.4	1 574.6	188.1	1 298.4	75.5	12.6	
IS	299.0	95.8	203.2	22.3	17.4	3.2	1.8		
NO	3 780.3	526.7	3 253.6	399.4	113.8	237.5	34.5	3.9	9.7
CH									
BA	1 280.0	163.7	1 116.3	0.0					
ME	293.8	44.2	249.6	0.0					
MD	708.0	189.9	518.1	0.0					
MK	750.8	110.3	640.5	0.2		0.2			
GE									
AL	491.3	75.6	415.8	142.4		142.4			
RS	2 492.8	496.2	1 996.6	0.0					
TR	27 154.9	4 158.3	22 996.6	147.9	49.1	98.9			
UA									
UK									

NB: (*) Without bio components.

(**) Liquid biofuels, used directly as fuel, not included in biogasoline or biodiesel.

Biofuels production

2023 – BY FUEL (KTOE)

3.1.7

	TOTAL	Biogasoline	Biodiesel	Bio jet kerosene	Other liquid biofuels (*)
EU-27	15 778.1	2 497.0	12 582.1	228.7	470.3
BE	499.2	262.1	236.7		0.4
BG	301.3	17.9	283.4		
CZ	283.1	52.7	230.5		
DK	3.8				3.8
DE	3 607.2	360.1	3 178.4		68.7
EE					
IE	97.4	6.8	90.6		
EL					
ES	1 593.6	280.6	1 313.0		
FR	1 773.3	591.1	1 169.8	7.3	5.0
HR	0.8		0.8		
IT	1 225.8	38.2	1 009.0		178.6
CY					
LV	91.6		91.6		
LT	149.0	9.0	140.0		
LU					
HU	470.7	296.1	174.7		
MT					
NL	1 918.5		1 905.8		12.7
AT	497.5	136.7	360.7	0.1	0.0
PL	1 067.5	208.4	859.0		0.1
PT	301.1		301.1		
RO	259.0	44.3	214.6		
SI					
SK	185.0	85.1	99.9		
FI	755.5		482.6	221.3	51.5
SE	697.3	107.9	439.9		149.5
IS					
NO	70.1		70.1		
CH					
BA					
ME					
MD					
MK					
GE					
AL					
RS					
TR	156.6	48.7	98.9		9.0
UA					
UK					

NB: (*) Including liquid biofuels used directly as fuel, not included in biogasoline, biodiesel or bio jet kerosene.

3.2.1 Total greenhouse gas (GHG) emissions (*) (MILLION TONNES CO₂ EQUIVALENT)

	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	4 927.2	4 629.7	4 540.4	4 642.4	4 277.2	3 921.6	3 352.8	3 228.3
BE	148.8	156.2	153.2	148.6	137.5	123.1	110.6	103.5
BG	99.7	73.2	57.8	62.9	60.0	61.1	48.4	46.0
CZ	196.9	158.2	150.4	148.9	140.7	127.3	112.4	103.5
DK	74.3	82.5	75.5	71.5	68.1	53.2	44.5	41.8
DE	1 264.5	1 137.7	1 061.9	1 012.9	954.8	926.5	746.9	700.6
EE	40.4	20.1	17.5	19.3	21.2	18.1	11.4	11.0
IE	56.8	60.8	70.7	72.7	64.1	63.0	58.8	58.4
EL	106.5	112.2	129.2	139.4	121.8	99.0	77.2	76.1
ES	291.4	332.4	391.6	448.0	366.3	346.2	276.1	287.3
FR	556.0	548.3	565.9	571.3	529.1	477.8	404.3	393.0
HR	32.1	23.1	26.0	30.2	28.6	25.1	24.1	26.0
IT	527.1	542.8	569.8	604.6	531.8	453.1	383.8	396.4
CY	6.3	7.8	9.1	10.1	10.3	9.1	8.4	9.5
LV	26.3	12.7	10.3	11.2	12.2	11.1	10.7	10.4
LT	47.9	22.0	19.0	22.1	20.4	19.9	19.8	18.2
LU	13.2	10.7	10.6	14.3	13.5	11.7	10.7	9.6
HU	95.4	78.1	76.1	78.2	67.5	63.0	63.2	55.2
MT	2.8	3.0	3.1	3.3	3.3	2.5	2.3	2.7
NL	227.8	239.9	230.1	226.5	225.1	206.1	171.7	152.7
AT	80.5	81.9	83.1	95.3	87.5	81.5	75.7	71.3
PL	476.8	447.1	394.3	401.5	407.4	384.9	372.6	352.0
PT	60.5	70.5	84.1	88.3	71.6	70.8	59.1	58.1
RO	257.4	188.9	142.3	150.8	125.3	117.5	111.7	104.2
SI	18.9	18.9	18.8	20.7	19.8	16.9	15.9	14.9
SK	73.6	52.7	48.4	50.5	45.6	40.6	37.0	36.3
FI	72.8	73.2	71.5	71.2	77.4	57.1	48.6	43.0
SE	72.6	74.6	70.1	68.2	66.3	55.5	47.0	46.5
IS	3.9	3.8	4.6	4.6	5.4	5.5	4.9	5.6
NO	52.0	52.3	56.0	55.8	56.2	56.1	50.1	48.3
CH	58.3	57.7	58.8	59.8	59.8	54.0	46.2	45.9

NB: Emissions data are downloaded from European Environment Agency (EEA), which is the main provider for EU-wide GHE emissions data. The EEA prepares and maintains the complete EU GHG emissions inventory, which is based on data reported by Member States through the EU GHG monitoring mechanism and the UNFCCC process.

GHGs: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulphur hexafluoride (SF₆), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs).

(*) Excluding international maritime and LULUCF (land use, land-use change and forestry) emissions, including international aviation and indirect CO₂.

GHG emissions from transport 3.2.2

(MILLION TONNES CO₂ EQUIVALENT)

INCLUDING INTERNATIONAL BUNKERS (*)

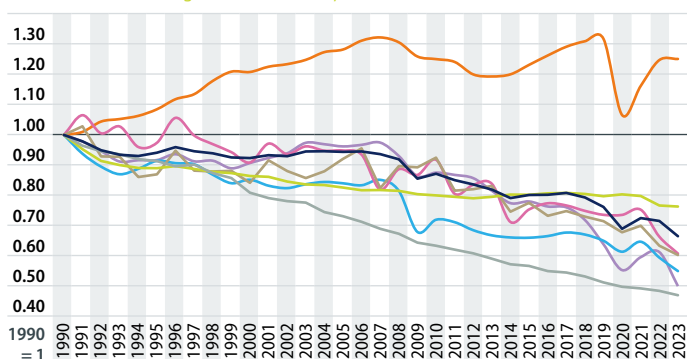
	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	829.5	893.9	1 011.6	1 093.8	1 067.9	1 028.5	898.8	1 039.3
BE	37.5	39.0	46.1	55.8	56.0	50.4	46.0	52.4
BG	7.4	6.1	5.9	8.7	8.9	10.0	9.9	11.0
CZ	11.9	11.0	12.8	18.3	17.7	18.4	18.1	20.9
DK	15.6	18.9	18.8	18.4	17.8	17.5	14.6	16.0
DE	183.6	198.4	207.9	187.7	184.6	194.6	164.6	178.2
EE	3.3	2.0	2.2	2.8	3.2	3.5	3.4	3.5
IE	6.3	7.8	13.1	16.0	14.3	14.8	12.1	15.7
EL	25.3	31.0	33.2	33.9	34.0	25.9	22.1	28.5
ES	75.1	87.7	115.6	140.6	132.3	122.6	100.8	132.3
FR	139.5	150.6	164.8	166.9	157.8	156.9	121.3	143.4
HR	4.5	3.7	4.8	5.9	6.3	6.3	6.0	8.3
IT	110.8	124.0	135.9	143.6	133.0	121.3	94.6	125.2
CY	2.1	2.6	3.3	3.9	3.8	3.4	3.1	3.9
LV	4.8	2.7	2.3	4.2	4.5	4.3	4.0	3.7
LT	6.5	3.7	3.6	4.8	5.0	5.6	6.9	6.9
LU	3.0	3.9	5.9	8.5	7.8	7.1	6.3	5.9
HU	9.4	8.1	9.9	12.9	12.5	12.8	12.9	14.9
MT	1.5	2.3	3.1	2.9	5.6	5.9	7.9	8.5
NL	67.9	73.3	85.8	97.3	90.2	79.5	69.9	70.2
AT	14.9	17.3	20.6	27.0	24.7	24.9	22.2	22.5
PL	22.7	24.8	30.2	38.1	51.4	50.5	65.4	72.7
PT	13.8	17.0	23.4	23.8	23.3	21.6	18.6	24.9
RO	13.2	9.2	10.3	13.0	14.8	16.6	18.6	22.5
SI	2.8	4.0	3.7	4.5	5.4	5.6	5.0	5.4
SK	6.9	5.6	5.8	7.8	7.6	7.5	7.1	7.9
FI	15.0	13.3	15.2	15.8	15.0	13.8	12.3	12.3
SE	24.1	25.9	27.7	30.8	30.5	27.2	25.2	21.8
IS	0.9	0.9	1.2	1.3	1.3	1.7	1.2	2.3
NO	13.0	13.9	15.7	16.5	17.0	17.1	13.6	14.4
CH	17.8	18.0	20.7	19.4	20.6	20.3	15.7	18.7

NB: (*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries.

3.2.3 GHG emissions (*) EU-27 – BY SECTOR (MILLION TONNES CO₂ EQUIVALENT)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3 794.7	3 627.8	1 441.5	1 232.1	107.5	101.8	721.1	152.2	12.0	94.8	30.5	45.8	385.8
1995	3 581.0	3 437.6	1 318.2	1 124.5	110.5	83.2	638.0	131.2	11.3	93.2	34.4	55.2	312.9
2000	3 533.0	3 414.8	1 303.8	1 124.9	117.0	61.9	578.6	117.1	12.5	80.1	32.4	49.4	287.0
2005	3 660.9	3 556.2	1 385.3	1 196.4	125.8	63.0	549.5	106.3	11.3	77.3	30.9	45.6	278.1
2010	3 390.6	3 302.8	1 256.5	1 083.8	117.2	55.4	469.5	93.3	10.7	66.6	27.2	36.8	234.9
2015	3 070.5	2 988.6	1 115.1	967.9	107.8	39.4	419.0	85.5	8.3	57.9	23.4	35.4	208.5
2020	2 545.9	2 483.0	778.3	651.9	93.6	32.8	398.1	67.2	8.3	59.0	22.2	34.4	207.0
2021	2 721.1	2 660.6	841.7	717.2	93.0	31.5	427.5	78.0	9.3	62.2	23.4	35.7	218.9
2022	2 713.8	2 655.4	866.7	737.8	98.8	30.1	391.7	70.1	8.4	53.7	20.8	34.1	204.6
2023	2 486.6	2 432.5	699.5	575.3	96.3	28.0	363.4	67.9	7.7	48.0	16.8	32.5	190.5

Energy industries · Industry (***) · Transport (**) · Residential · Commercial / Institutional · Agriculture / Forestry / Fisheries (****) · Other (*****) · Total

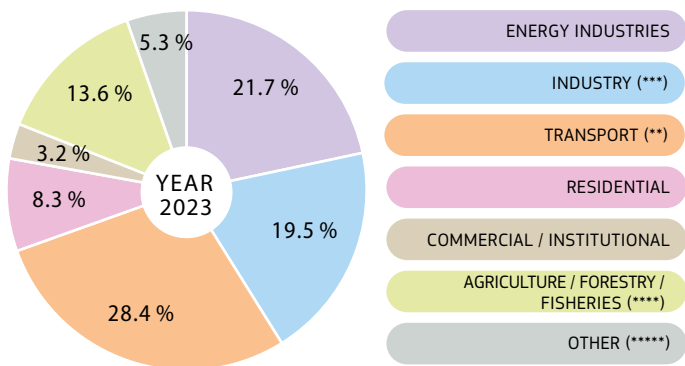


- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from manufacturing and construction, industrial processes and product use.
 (****) Emissions from fuel combustion and other emissions from agriculture.
 (*****) Emissions from fuel combustion in other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO₂ and other.

GHG emissions (*) EU-27 – BY SECTOR 3.2.3

(MILLION TONNES CO₂ EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Other	Indirect CO ₂	TOTAL EMISSIONS
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries				Agriculture	Waste					
728.7	714.1	172.2	450.1	91.8	22.4	166.9	450.4	489.5	185.0			7.6	4927.2 1990
792.3	678.6	149.1	438.0	91.5	10.4	143.3	430.1	424.4	187.3			6.9	4629.7 1995
884.8	639.0	144.2	407.8	87.0	8.6	118.2	414.1	413.2	173.9			6.3	4540.4 2000
940.5	670.1	158.1	426.2	85.7	10.8	104.7	429.1	391.7	155.0			5.7	4642.4 2005
916.7	652.2	158.9	412.0	81.3	7.8	87.9	363.6	380.6	137.5			4.8	4277.2 2010
902.5	545.2	132.4	335.9	76.9	6.9	81.9	342.3	385.9	118.7			4.1	3921.6 2015
778.0	522.6	115.1	327.5	79.9	6.0	62.9	307.5	383.9	111.7			3.9	3352.8 2020
850.1	534.5	119.0	335.5	80.0	6.7	60.5	317.9	380.4	111.2			3.9	3534.5 2021
914.3	475.6	107.3	294.1	74.2	7.0	58.4	290.3	367.7	110.1			3.6	3485.6 2023
917.1	445.1	101.9	268.3	74.9	7.3	54.2	264.8	364.9	108.5			3.4	3228.3 2024



- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
- (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
- (***) Emissions from manufacturing and construction, industrial processes and product use.
- (****) Emissions from fuel combustion and other emissions from agriculture.
- (*****) Emissions from fuel combustion in other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO₂ and other.

3.2.3

GHG emissions (*) EU-27

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	77.0	73.6	29.3	25.0	2.2	2.1	14.6	3.1	0.2	1.9	0.6	0.9	7.8
1991	77.7	74.5	29.2	25.1	2.1	2.0	14.1	2.9	0.3	1.8	0.7	1.0	7.3
1992	77.7	74.5	29.2	25.2	2.2	1.8	13.7	2.8	0.2	1.6	0.7	1.0	7.4
1993	77.8	74.5	28.5	24.5	2.3	1.8	13.5	2.7	0.2	1.6	0.7	1.1	7.2
1994	77.3	74.2	28.8	24.6	2.4	1.8	13.5	2.8	0.2	1.8	0.7	1.1	6.8
1995	77.3	74.3	28.5	24.3	2.4	1.8	13.8	2.8	0.2	2.0	0.7	1.2	6.8
1996	77.8	74.9	28.5	24.5	2.4	1.6	13.3	2.6	0.2	1.9	0.7	1.2	6.7
1997	77.5	74.4	28.2	24.1	2.5	1.7	13.3	2.7	0.3	1.9	0.8	1.2	6.6
1998	77.9	74.9	28.5	24.4	2.5	1.6	12.9	2.6	0.3	1.7	0.7	1.1	6.5
1999	78.1	75.1	28.1	24.2	2.5	1.4	12.8	2.4	0.3	1.8	0.7	1.1	6.5
2000	77.8	75.2	28.7	24.8	2.6	1.4	12.7	2.6	0.3	1.8	0.7	1.1	6.3
2001	78.4	75.9	29.0	25.1	2.6	1.3	12.4	2.4	0.3	1.7	0.7	1.1	6.2
2002	78.6	76.1	29.6	25.7	2.6	1.3	12.2	2.3	0.3	1.6	0.7	1.1	6.2
2003	78.9	76.4	30.2	26.3	2.6	1.3	12.1	2.3	0.3	1.6	0.7	1.1	6.2
2004	78.7	76.4	30.0	26.0	2.7	1.4	11.9	2.3	0.3	1.7	0.7	1.0	6.0
2005	78.9	76.6	29.8	25.8	2.7	1.4	11.8	2.3	0.2	1.7	0.7	1.0	6.0
2006	79.0	76.8	29.9	25.9	2.7	1.4	11.6	2.3	0.2	1.6	0.7	0.9	5.9
2007	78.5	76.4	30.5	26.4	2.7	1.4	11.9	2.4	0.2	1.6	0.6	0.9	6.0
2008	78.8	76.7	29.6	25.5	2.8	1.3	11.7	2.3	0.2	1.7	0.6	0.9	6.0
2009	79.1	77.0	29.5	25.6	2.8	1.1	10.4	1.8	0.2	1.5	0.6	0.8	5.4
2010	79.3	77.2	29.4	25.3	2.7	1.3	11.0	2.2	0.3	1.6	0.6	0.9	5.5
2011	78.9	76.8	29.9	25.9	2.8	1.3	11.0	2.2	0.2	1.6	0.6	0.8	5.5
2012	79.0	76.9	30.0	26.2	2.7	1.1	10.8	2.2	0.2	1.6	0.6	0.9	5.4
2013	78.7	76.6	29.1	25.4	2.7	1.0	10.6	2.1	0.2	1.5	0.6	0.9	5.3
2014	77.7	75.6	28.6	24.8	2.7	1.1	10.6	2.1	0.2	1.5	0.6	0.9	5.4
2015	78.3	76.2	28.4	24.7	2.7	1.0	10.7	2.2	0.2	1.5	0.6	0.9	5.3
2016	78.2	76.2	27.8	24.0	2.7	1.0	10.8	2.1	0.2	1.5	0.6	0.9	5.5
2017	78.3	76.3	27.5	23.8	2.6	1.0	10.9	2.1	0.2	1.5	0.6	0.9	5.5
2018	78.1	76.2	26.4	22.8	2.6	1.0	11.1	2.1	0.2	1.6	0.6	0.9	5.6
2019	77.7	75.9	24.3	20.6	2.7	1.1	11.2	2.1	0.2	1.6	0.7	1.0	5.7
2020	75.9	74.1	23.2	19.4	2.8	1.0	11.9	2.0	0.2	1.8	0.7	1.0	6.2
2021	77.0	75.3	23.8	20.3	2.6	0.9	12.1	2.2	0.3	1.8	0.7	1.0	6.2
2022	77.9	76.2	24.9	21.2	2.8	0.9	11.2	2.0	0.2	1.5	0.6	1.0	5.9
2023	77.0	75.3	21.7	17.8	3.0	0.9	11.3	2.1	0.2	1.5	0.5	1.0	5.9

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂. Indirect emissions from electricity use are not included in the GHG emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

GHG emissions (*) EU-27

BY SECTOR (SHARES %)

3.2.3

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
14.8	14.5	3.5	9.1	1.9	0.5	3.4	9.1	9.9	3.8		0.2	100	1990
15.3	15.5	3.7	10.0	1.9	0.4	3.2	8.7	9.6	3.9		0.2	100	1991
16.3	15.0	3.4	9.7	1.9	0.3	3.2	8.7	9.4	4.1		0.2	100	1992
16.7	15.6	3.5	10.1	2.0	0.3	3.2	8.6	9.3	4.1		0.2	100	1993
17.0	14.7	3.2	9.4	2.0	0.2	3.1	9.2	9.3	4.1		0.2	100	1994
17.1	14.7	3.2	9.5	2.0	0.2	3.1	9.3	9.2	4.0		0.1	100	1995
17.3	15.5	3.5	10.1	2.0	0.2	2.9	9.1	9.0	3.9		0.1	100	1996
17.8	14.9	3.3	9.7	2.0	0.2	3.1	9.3	9.1	3.9		0.1	100	1997
18.7	14.6	3.3	9.4	1.9	0.2	3.0	9.0	9.1	3.9		0.1	100	1998
19.5	14.6	3.3	9.3	2.0	0.2	3.0	8.8	9.2	3.9		0.1	100	1999
19.5	14.1	3.2	9.0	1.9	0.2	2.6	9.1	9.1	3.8		0.1	100	2000
19.6	14.8	3.4	9.5	1.9	0.2	2.5	8.8	9.0	3.7		0.1	100	2001
19.8	14.4	3.3	9.2	1.9	0.2	2.5	8.8	8.8	3.7		0.1	100	2002
19.7	14.3	3.2	9.3	1.8	0.2	2.4	8.9	8.6	3.6		0.1	100	2003
20.1	14.2	3.2	9.1	1.8	0.2	2.3	9.2	8.5	3.4		0.1	100	2004
20.3	14.4	3.4	9.2	1.8	0.2	2.3	9.2	8.4	3.3		0.1	100	2005
20.7	14.3	3.5	9.0	1.8	0.2	2.2	9.3	8.4	3.3		0.1	100	2006
21.1	12.7	3.1	8.0	1.7	0.2	2.1	9.6	8.5	3.2		0.1	100	2007
21.2	14.0	3.4	8.8	1.8	0.2	2.1	9.3	8.6	3.2		0.1	100	2008
22.0	14.8	3.7	9.3	1.9	0.2	2.1	8.3	9.2	3.4		0.1	100	2009
21.4	15.2	3.7	9.6	1.9	0.2	2.1	8.5	8.9	3.2		0.1	100	2010
21.8	13.9	3.3	8.6	1.9	0.2	2.1	8.7	9.1	3.2		0.1	100	2011
21.4	14.5	3.4	9.1	1.9	0.2	2.1	8.5	9.2	3.2		0.1	100	2012
21.8	14.9	3.5	9.4	2.0	0.2	2.1	8.6	9.5	3.1		0.1	100	2013
22.7	13.5	3.3	8.2	2.0	0.2	2.1	9.1	10.0	3.1		0.1	100	2014
23.0	13.9	3.4	8.6	2.0	0.2	2.1	8.7	9.8	3.0		0.1	100	2015
23.6	13.9	3.2	8.8	2.0	0.2	2.0	8.8	9.9	3.0		0.1	100	2016
24.0	13.8	3.2	8.6	2.0	0.2	2.0	8.9	9.8	2.9		0.1	100	2017
24.8	13.8	3.2	8.6	2.0	0.1	1.9	8.9	10.0	2.9		0.1	100	2018
26.0	14.2	3.3	8.8	2.1	0.2	1.8	8.9	10.3	3.0		0.1	100	2019
23.2	15.6	3.4	9.8	2.4	0.2	1.9	9.2	11.5	3.3		0.1	100	2020
24.1	15.1	3.4	9.5	2.3	0.2	1.7	9.0	10.8	3.1		0.1	100	2021
26.2	13.6	3.1	8.4	2.1	0.2	1.7	8.3	10.5	3.2		0.1	100	2022
28.4	13.8	3.2	8.3	2.3	0.2	1.7	8.2	11.3	3.4		0.1	100	2023

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

Indirect emissions from electricity use are not included in the GHG emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

3.2.4 GHG emissions (*) 2023 – BY SECTOR (MILLION TONNES CO₂ EQUIVALENT)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	2486.6	2432.5	699.5	575.3	96.3	28.0	363.4	67.9	7.7	48.0	16.8	32.5	190.5
BE	78.4	77.8	15.6	10.9	4.5	0.2	12.2	1.0	0.5	3.4	0.5	2.4	4.4
BG	33.5	31.8	15.8	14.8	1.0	0.0	3.8	0.1	0.2	1.1	0.1	0.3	2.0
CZ	77.9	76.8	35.7	33.7	0.5	1.4	10.1	1.4	0.1	3.0	0.5	1.0	4.2
DK	27.5	27.3	6.5	4.8	0.9	0.8	3.0	0.1		0.2	0.0	0.7	2.1
DE	593.2	589.6	198.1	169.5	20.4	8.1	105.8	34.0	0.2		0.0	0.2	71.4
EE	8.9	8.9	5.5	3.7		1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1
IE	34.8	34.7	7.8	7.4	0.3	0.0	4.2	0.0	1.2	0.3	0.0	1.0	1.6
EL	52.8	52.5	20.9	15.4	5.5	0.0	4.3	0.1	0.6	0.4	0.1	0.6	2.5
ES	220.8	217.0	41.5	30.8	9.5	1.1	34.9	4.4	1.0	7.4	2.9	3.9	15.4
FR	273.5	271.1	34.0	26.4	5.6	2.0	35.9	3.3	0.7	7.6	2.0	6.7	15.6
HR	18.2	17.8	4.1	3.1	0.7	0.3	2.5	0.1	0.0	0.1	0.1	0.3	1.8
IT	320.5	316.0	75.5	53.8	18.4	3.3	50.5	9.2	1.1	8.1	4.0	3.6	24.6
CY	7.2	7.2	3.1	3.1		0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.5
LV	6.8	6.7	1.0	0.9		0.1	0.6	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.7	11.4	2.4	1.0	1.4	0.0	1.1			0.2	0.0	0.3	0.6
LU	8.4	8.4	0.2	0.2			0.9	0.2	0.0	0.1	0.0	0.0	0.5
HU	39.7	38.3	9.3	7.5	1.6	0.2	4.1	0.1	0.1	0.4	0.4	0.8	2.3
MT	2.2	2.2	0.8	0.8			0.1	0.0		0.0	0.0	0.0	0.1
NL	118.4	116.8	37.4	26.5	9.3	1.6	17.1	3.6	0.1	5.8	0.6	3.2	3.7
AT	47.1	46.7	7.3	4.6	2.6	0.2	9.6	1.7	0.3	1.3	1.2	0.8	4.3
PL	293.5	273.0	127.6	119.6	4.5	3.5	26.4	3.2	1.0	5.0	1.3	4.4	11.5
PT	40.1	39.0	5.8	4.5	1.4		6.0	0.1		0.7	0.9	0.6	3.7
RO	71.5	62.7	15.5	12.6	1.7	1.2	11.5	0.5	0.2	1.4	0.2	0.9	8.3
SI	11.8	11.5	3.3	3.3			1.5	0.2	0.1	0.1	0.2	0.1	0.9
SK	25.1	24.4	6.4	3.2	1.9	1.3	5.7	2.6	0.1	0.4	0.2	0.3	2.1
FI	30.4	30.3	10.1	8.3	1.5	0.3	5.1	0.8	0.1	0.6	1.4	0.1	2.1
SE	32.6	32.5	8.4	4.9	3.1	0.4	5.8	1.3	0.1	0.4	0.1	0.1	3.8
IS	2.7	2.6	0.0	0.0			0.1	0.0	0.0			0.0	0.1
NO	33.7	31.8	12.3	1.0	0.8	10.5	2.5	0.1	0.2	0.1	0.1	0.4	1.6
CH	35.5	35.4	3.2	2.8	0.3	0.0	3.9	0.2	0.1	0.5	0.1	0.6	2.4

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG emissions (*) 2023 – BY SECTOR 3.2.4

(MILLION TONNES CO₂ EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
917.1	445.1	101.9	268.3	74.9	7.3	54.2	264.8	364.9	108.5		3.4	3 228.3	EU-27
30.0	19.9	4.5	12.8	2.5	0.1	0.6	15.3	8.7	1.2			103.5	BE
10.8	1.3	0.4	0.5	0.5	0.1	1.7	3.9	5.9	2.7			46.0	BG
20.9	9.8	2.1	6.6	1.2	0.3	1.1	12.7	7.0	5.6		0.4	103.5	CZ
14.4	3.1	0.6	1.1	1.4	0.3	0.2	1.6	11.2	1.3		0.3	41.8	DK
174.7	110.3	23.1	79.0	8.2	0.8	3.6	47.2	54.8	5.5			700.6	DE
2.8	0.4	0.2	0.2	0.1		0.0	0.3	1.5	0.3			11.0	EE
15.2	7.6	1.4	5.3	0.8		0.1	2.8	19.9	0.8			58.4	IE
21.7	5.1	0.6	3.9	0.5	0.4	0.4	9.1	8.0	6.2			76.1	EL
105.0	35.1	8.8	14.1	12.2	0.5	3.8	19.9	32.9	13.7			287.3	ES
140.0	59.0	16.3	31.8	10.9	2.1	2.4	34.1	66.4	18.2		0.8	393.0	FR
8.2	3.1	0.5	1.8	0.8		0.5	3.5	2.3	1.9			26.0	HR
120.7	68.9	21.4	39.9	7.6	0.4	4.5	22.6	32.3	20.2		0.9	396.4	IT
3.1	0.5	0.1	0.3	0.1	0.0		1.4	0.5	0.3		0.0	9.5	CY
3.5	1.5	0.5	0.5	0.5	0.0	0.1	0.9	2.1	0.6		0.0	10.4	LV
6.5	1.4	0.3	0.9	0.2	0.0	0.3	2.0	3.7	0.7		0.0	18.2	LT
5.9	1.4	0.5	0.9	0.0	0.0	0.0	0.4	0.7	0.1			9.6	LU
14.9	10.1	2.0	6.7	1.3	0.1	1.3	5.5	6.0	4.0			55.2	HU
1.2	0.1	0.1	0.0	0.1	0.0		0.2	0.1	0.2			2.7	MT
36.6	25.5	5.4	11.7	8.4	0.2	1.5	13.1	18.0	2.8		0.4	152.7	NL
22.5	7.3	1.0	5.3	0.9	0.0	0.4	15.5	7.5	1.3			71.3	AT
71.9	47.1	5.4	30.9	10.9		20.6	19.6	34.3	4.2		0.4	352.0	PL
23.1	4.1	1.2	1.6	1.3	0.0	1.1	5.2	7.0	5.6		0.1	58.1	PT
22.4	12.1	2.3	8.1	1.7	1.2	8.9	8.4	17.9	6.3			104.2	RO
5.4	1.3	0.3	0.7	0.2	0.0	0.3	1.0	1.6	0.4			14.9	SI
7.9	4.4	1.3	2.8	0.3	0.1	0.6	7.3	2.2	1.7		0.0	36.3	SK
11.4	3.1	1.1	0.6	1.3	0.7	0.1	4.7	6.2	1.6		0.0	43.0	FI
16.3	2.0	0.5	0.4	1.0		0.1	6.6	6.3	1.1			46.5	SE
1.9	0.5	0.0	0.0	0.5	0.0	0.2	1.9	0.7	0.2			5.6	IS
13.6	3.1	1.1	0.5	1.5	0.2	1.9	8.6	4.5	1.4		0.1	48.3	NO
18.7	9.6	2.9	6.2	0.5	0.1	0.1	3.2	6.0	1.1	0.0	0.1	45.9	CH

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.4

GHG emissions (*) 2023

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	77.0	75.3	21.7	17.8	3.0	0.9	11.3	2.1	0.2	1.5	0.5	1.0	5.9
BE	75.7	75.1	15.1	10.5	4.4	0.2	11.8	1.0	0.5	3.3	0.5	2.3	4.3
BG	72.8	69.2	34.3	32.2	2.1	0.0	8.3	0.2	0.5	2.4	0.1	0.6	4.4
CZ	75.2	74.2	34.4	32.6	0.5	1.4	9.8	1.3	0.1	2.9	0.5	0.9	4.0
DK	65.7	65.3	15.7	11.5	2.2	2.0	7.2	0.2		0.4	0.1	1.6	4.9
DE	84.7	84.2	28.3	24.2	2.9	1.2	15.1	4.8	0.0		0.0	0.0	10.2
EE	80.9	80.8	49.7	33.7		16.0	2.1	0.0	0.0	0.1	0.2	0.4	1.3
IE	59.6	59.5	13.3	12.8	0.5	0.1	7.1	0.0	2.0	0.6	0.0	1.8	2.7
EL	69.4	68.9	27.5	20.2	7.3	0.0	5.7	0.1	0.8	0.5	0.1	0.9	3.3
ES	76.9	75.5	14.4	10.7	3.3	0.4	12.2	1.5	0.3	2.6	1.0	1.4	5.4
FR	69.6	69.0	8.7	6.7	1.4	0.5	9.1	0.8	0.2	1.9	0.5	1.7	4.0
HR	70.1	68.4	15.7	11.8	2.8	1.2	9.4	0.3	0.1	0.4	0.4	1.2	7.0
IT	80.8	79.7	19.0	13.6	4.6	0.8	12.7	2.3	0.3	2.0	1.0	0.9	6.2
CY	76.4	76.4	32.3	32.3		0.0	6.0	0.0	0.0	0.1	0.0	0.5	5.3
LV	65.5	64.5	9.7	9.1		0.6	6.2	0.0	0.0	0.2	0.1	0.9	5.0
LT	64.3	62.6	13.2	5.5	7.6	0.2	6.0			1.2	0.1	1.5	3.2
LU	87.7	87.4	2.0	2.0			9.4	2.5	0.4	0.9	0.1	0.1	5.4
HU	71.8	69.4	16.8	13.5	2.8	0.4	7.4	0.1	0.3	0.7	0.7	1.5	4.2
MT	82.5	82.5	29.4	29.4			2.4	0.0		0.2	0.0	0.3	1.8
NL	77.5	76.5	24.5	17.3	6.1	1.1	11.2	2.4	0.1	3.8	0.4	2.1	2.4
AT	66.0	65.4	10.2	6.4	3.6	0.2	13.5	2.4	0.4	1.8	1.7	1.1	6.0
PL	83.4	77.6	36.2	34.0	1.3	1.0	7.5	0.9	0.3	1.4	0.4	1.2	3.3
PT	69.1	67.2	10.1	7.7	2.4		10.3	0.2		1.1	1.5	1.1	6.4
RO	68.7	60.2	14.9	12.1	1.6	1.2	11.0	0.5	0.2	1.4	0.2	0.8	7.9
SI	79.7	77.5	22.3	22.3			10.2	1.1	0.8	0.5	1.3	0.6	5.8
SK	69.2	67.4	17.6	8.9	5.2	3.5	15.6	7.3	0.1	1.1	0.5	0.8	5.7
FI	70.7	70.4	23.4	19.2	3.5	0.7	11.7	1.8	0.2	1.4	3.2	0.2	4.9
SE	70.0	69.9	18.1	10.6	6.7	0.8	12.4	2.7	0.2	0.9	0.2	0.2	8.2
IS	48.8	45.7	0.2	0.2			2.0	0.0	0.1			0.8	1.1
NO	69.8	65.8	25.6	2.1	1.6	21.8	5.1	0.1	0.4	0.3	0.2	0.7	3.3
CH	77.3	77.2	6.9	6.2	0.8	0.0	8.4	0.5	0.2	1.0	0.2	1.3	5.2

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG emissions (*) 2023

BY SECTOR (SHARES %)

3.2.4

TRANSPORT (**)	OTHER SECTORS					OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE					TOTAL EMISSIONS	
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries					Agriculture	Waste	Other	Indirect CO ₂			
28.4	13.8	3.2	8.3	2.3	0.2	1.7	8.2	11.3	3.4		0.1	100	EU-27	
29.0	19.2	4.4	12.4	2.4	0.1	0.6	14.8	8.4	1.1			100	BE	
23.5	2.9	0.8	1.1	1.1	0.1	3.7	8.4	12.9	5.9			100	BG	
20.2	9.5	2.0	6.3	1.1	0.3	1.0	12.3	6.7	5.4		0.4	100	CZ	
34.4	7.4	1.5	2.5	3.4	0.6	0.4	3.7	26.9	3.0		0.7	100	DK	
24.9	15.7	3.3	11.3	1.2	0.1	0.5	6.7	7.8	0.8			100	DE	
25.4	3.6	1.5	1.5	0.6		0.1	2.4	13.9	2.7			100	EE	
26.1	12.9	2.4	9.2	1.4		0.2	4.8	34.1	1.4			100	IE	
28.5	6.7	0.9	5.1	0.7	0.5	0.5	12.0	10.5	8.1			100	EL	
36.6	12.2	3.1	4.9	4.2	0.2	1.3	6.9	11.4	4.8			100	ES	
35.6	15.0	4.1	8.1	2.8	0.5	0.6	8.7	16.9	4.6		0.2	100	FR	
31.4	11.8	1.9	6.9	2.9		1.7	13.5	9.0	7.4			100	HR	
30.4	17.4	5.4	10.1	1.9	0.1	1.1	5.7	8.1	5.1		0.2	100	IT	
33.0	4.8	1.1	2.9	0.8	0.2		14.8	5.6	3.1		0.1	100	CY	
34.1	14.3	4.4	5.0	4.8	0.2	1.0	8.3	20.5	5.6		0.1	100	LV	
35.5	7.6	1.6	4.7	1.3	0.3	1.7	11.3	20.4	3.9		0.2	100	LT	
61.3	14.7	4.8	9.6	0.2	0.0	0.3	4.3	7.2	0.9			100	LU	
27.0	18.2	3.7	12.2	2.3	0.1	2.4	10.0	10.9	7.3			100	HU	
45.5	5.1	2.1	1.1	1.9	0.1		7.7	3.1	6.7			100	MT	
24.0	16.7	3.6	7.7	5.5	0.1	1.0	8.6	11.8	1.9		0.3	100	NL	
31.5	10.2	1.4	7.5	1.3	0.0	0.6	21.7	10.5	1.8			100	AT	
20.4	13.4	1.5	8.8	3.1		5.8	5.6	9.7	1.2		0.1	100	PL	
39.7	7.1	2.0	2.8	2.3	0.1	1.9	9.0	12.0	9.7		0.2	100	PT	
21.5	11.6	2.2	7.8	1.6	1.1	8.5	8.1	17.2	6.1			100	RO	
36.5	8.5	2.3	4.5	1.6	0.0	2.3	6.8	11.0	2.5			100	SI	
21.8	12.2	3.7	7.7	0.8	0.2	1.8	20.1	6.0	4.6		0.1	100	SK	
26.4	7.1	2.7	1.4	3.1	1.7	0.3	11.0	14.4	3.8		0.1	100	FI	
35.1	4.2	1.2	1.0	2.1		0.2	14.1	13.6	2.3			100	SE	
34.4	9.2	0.0	0.1	9.0	0.0	3.2	34.7	12.3	4.2			100	IS	
28.2	6.5	2.4	1.1	3.0	0.5	4.0	17.8	9.4	2.8		0.2	100	NO	
40.7	20.9	6.3	13.4	1.2	0.3	0.1	7.0	13.1	2.4	0.0	0.2	100	CH	

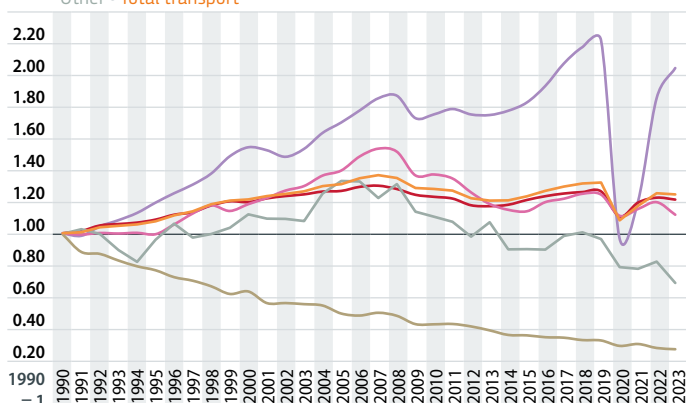
NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.5 GHG emissions from transport – EU-27 BY MODE (MILLION TONNES CO₂ EQUIVALENT)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation				Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport				
1990	66.0	11.4	54.6	620.7	12.8	123.9	23.0	100.9	6.1	829.5	5 028.1
1995	79.0	12.8	66.3	675.9	9.9	123.2	21.7	101.5	5.9	893.9	4 731.2
2000	102.4	16.9	85.5	746.9	8.1	147.2	20.4	126.8	6.9	1 011.6	4 667.2
2005	112.9	16.5	96.4	792.4	6.3	174.1	20.8	153.3	8.2	1 093.8	4 795.7
2010	116.3	15.7	100.6	768.5	5.4	170.9	19.7	151.2	6.8	1 067.9	4 428.4
2015	121.3	13.2	108.1	755.6	4.5	141.5	15.5	126.0	5.5	1 028.5	4 047.6
2020	63.9	7.9	56.0	688.5	3.7	137.9	17.1	120.9	4.8	898.8	3 473.7
2021	79.7	9.8	69.9	745.3	3.8	143.4	16.6	126.8	4.7	977.0	3 661.3
2022	123.3	13.2	110.1	765.1	3.5	148.8	17.5	131.3	5.0	1 045.6	3 616.9
2023	135.9	13.2	122.7	757.1	3.4	138.8	16.5	122.2	4.2	1 039.3	3 350.5

Total civil aviation - Road transportation - Railways (***) - Total navigation - Other - Total transport



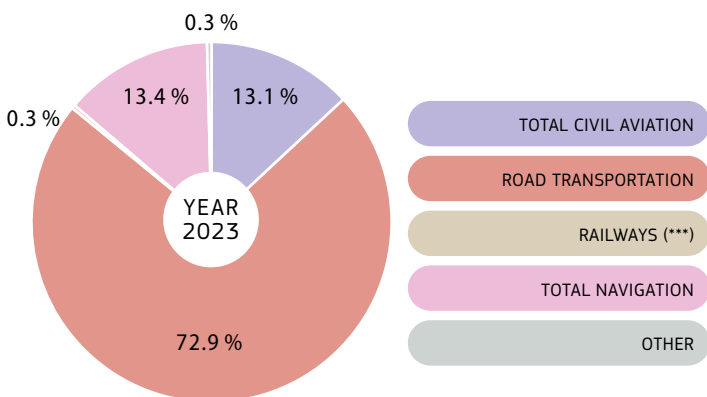
- NB:** (*) Excluding international bunkers (international traffic departing from the EU)
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

GHG emissions from transport 3.2.5

EU-27 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	Intl. bunkers – Intl. aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	Intl. bunkers – Intl. maritime transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.4	6.6	74.8	1.5	14.9	2.8	12.2	0.7	16.5	100
1995	8.8	1.4	7.4	75.6	1.1	13.8	2.4	11.4	0.7	18.9	100
2000	10.1	1.7	8.5	73.8	0.8	14.6	2.0	12.5	0.7	21.7	100
2005	10.3	1.5	8.8	72.4	0.6	15.9	1.9	14.0	0.8	22.8	100
2010	10.9	1.5	9.4	72.0	0.5	16.0	1.8	14.2	0.6	24.1	100
2015	11.8	1.3	10.5	73.5	0.4	13.8	1.5	12.3	0.5	25.4	100
2020	7.1	0.9	6.2	76.6	0.4	15.3	1.9	13.4	0.5	25.9	100
2021	8.2	1.0	7.2	76.3	0.4	14.7	1.7	13.0	0.5	26.7	100
2022	11.8	1.3	10.5	73.2	0.3	14.2	1.7	12.6	0.5	28.9	100
2023	13.1	1.3	11.8	72.9	0.3	13.4	1.6	11.8	0.4	31.0	100



- NB:** (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
 (***** Total transport share in total emissions.

3.2.6 GHG emissions from transport – 2023

BY MODE (MILLION TONNES CO₂ EQUIVALENT)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
EU-27	135.9	13.2	122.7	757.1	3.4	138.8	16.5	122.2	4.2	1 039.3	3 350.5
BE	5.3	0.0	5.3	23.7	0.1	22.8	0.4	22.4	0.5	52.4	125.9
BG	0.7	0.0	0.7	9.9	0.0	0.2	0.0	0.2	0.2	11.0	46.2
CZ	1.1	0.0	1.0	19.6	0.2	0.0	0.0		0.0	20.9	103.5
DK	2.6	0.1	2.5	11.1	0.2	2.1	0.5	1.6		16.0	43.4
DE	29.7	1.1	28.6	141.9	0.8	4.9	1.4	3.5	0.9	178.2	704.1
EE	0.2	0.0	0.1	2.4	0.0	0.7	0.0	0.7	0.2	3.5	11.7
IE	3.5	0.0	3.4	11.2	0.1	0.7	0.3	0.4	0.1	15.7	58.8
EL	4.6	0.4	4.2	14.9	0.0	8.9	2.2	6.8	0.0	28.5	82.9
ES	20.6	3.3	17.3	81.2	0.2	30.1	2.8	27.3	0.2	132.3	314.6
FR	21.0	4.4	16.6	116.9	0.3	4.9	1.5	3.4	0.3	143.4	396.4
HR	0.6	0.0	0.6	7.4	0.0	0.2	0.1	0.1		8.3	26.1
IT	14.1	2.4	11.7	100.9	0.0	9.3	4.7	4.6	1.0	125.2	401.0
CY	1.0	0.0	1.0	2.2		0.8	0.0	0.7		3.9	10.2
LV	0.4	0.0	0.4	3.1	0.1	0.1	0.0	0.1		3.7	10.5
LT	0.3	0.0	0.3	6.0	0.1	0.4	0.0	0.4	0.1	6.9	18.6
LU	1.8	0.0	1.8	4.1	0.0	0.0	0.0	0.0		5.9	9.6
HU	0.9	0.0	0.9	13.8	0.1	0.0	0.0		0.0	14.9	55.2
MT	0.5	0.0	0.5	0.7		7.4	0.1	7.3		8.5	10.0
NL	10.1	0.0	10.1	25.4	0.1	34.6	0.9	33.6	0.1	70.2	186.3
AT	2.7	0.0	2.7	19.6	0.1	0.1	0.1	0.0	0.0	22.5	71.4
PL	3.7	0.1	3.6	67.8	0.3	0.8	0.0	0.8	0.1	72.7	352.8
PT	5.3	0.5	4.8	17.4	0.0	2.1	0.3	1.8		24.9	59.9
RO	0.4	0.1	0.3	21.5	0.3	0.2	0.2	0.1	0.0	22.5	104.2
SI	0.1	0.0	0.1	5.3	0.0	0.0	0.0		0.0	5.4	14.9
SK	0.2	0.0	0.2	7.6	0.1	0.0	0.0	0.0	0.0	7.9	36.3
FI	2.1	0.1	1.9	8.9	0.1	1.2	0.3	0.9		12.3	43.9
SE	2.5	0.4	2.1	12.8	0.0	6.1	0.7	5.4	0.3	21.8	52.0
IS	1.0	0.0	1.0	0.9		0.3	0.0	0.3	0.0	2.3	5.9
NO	2.7	1.1	1.6	8.0	0.1	3.7	2.9	0.8		14.4	49.1
CH	5.1	0.1	5.1	13.4	0.0	0.1	0.1	0.0	0.0	18.7	45.9

NB: (*) Excluding international bunkers (international traffic departing from the EU).

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

GHG emissions from transport 3.2.6

2023 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
EU-27	13.1	1.3	11.8	72.9	0.3	13.4	1.6	11.8	0.4	31.0	100
BE	10.2	0.0	10.1	45.3	0.1	43.5	0.7	42.8	1.0	41.6	100
BG	6.2	0.2	6.0	89.6	0.3	1.9	0.1	1.9	2.0	23.9	100
CZ	5.1	0.1	5.0	93.8	1.1	0.1	0.1		0.0	20.2	100
DK	16.5	0.8	15.7	69.4	1.1	13.0	2.9	10.1		36.8	100
DE	16.7	0.6	16.1	79.6	0.4	2.7	0.8	2.0	0.5	25.3	100
EE	4.3	0.2	4.1	67.1	1.3	21.3	0.6	20.7	6.0	30.0	100
IE	22.1	0.1	22.0	71.6	0.9	4.5	1.8	2.7	1.0	26.6	100
EL	16.2	1.5	14.7	52.4	0.0	31.3	7.6	23.7	0.0	34.4	100
ES	15.6	2.5	13.1	61.4	0.1	22.7	2.1	20.6	0.1	42.1	100
FR	14.6	3.1	11.6	81.5	0.2	3.4	1.0	2.4	0.2	36.2	100
HR	7.6	0.4	7.3	89.1	0.5	2.7	1.8	0.9		31.6	100
IT	11.2	1.9	9.3	80.5	0.0	7.4	3.8	3.6	0.8	31.2	100
CY	24.8	0.0	24.8	55.7		19.5	0.2	19.3		37.9	100
LV	11.2	0.1	11.2	83.1	2.0	3.6	0.1	3.5		34.9	100
LT	4.7	0.0	4.6	87.4	1.4	5.8	0.1	5.7	0.7	36.9	100
LU	30.7	0.0	30.7	69.1	0.1	0.0	0.0	0.0		61.3	100
HU	6.2	0.0	6.2	92.7	0.8	0.1	0.1		0.3	27.0	100
MT	5.5	0.0	5.5	8.0		86.4	0.9	85.5		85.2	100
NL	14.4	0.0	14.3	36.2	0.1	49.2	1.3	47.9	0.1	37.7	100
AT	11.9	0.1	11.8	87.1	0.3	0.5	0.3	0.1	0.2	31.6	100
PL	5.1	0.2	4.9	93.2	0.4	1.2	0.0	1.1	0.1	20.6	100
PT	21.4	2.1	19.3	70.0	0.1	8.5	1.2	7.3		41.5	100
RO	1.8	0.5	1.3	95.6	1.5	1.0	0.7	0.3	0.1	21.6	100
SI	1.0	0.0	1.0	98.5	0.4	0.0	0.0		0.0	36.5	100
SK	2.0	0.0	1.9	96.4	1.1	0.3	0.1	0.2	0.3	21.8	100
FI	16.9	1.1	15.8	72.8	0.5	9.9	2.6	7.3		27.9	100
SE	11.4	1.6	9.8	58.7	0.2	28.2	3.2	25.0	1.6	41.9	100
IS	43.8	1.0	42.8	40.7		15.5	0.7	14.7	0.0	38.0	100
NO	18.7	7.5	11.2	55.4	0.4	25.6	19.8	5.7		29.4	100
CH	27.4	0.3	27.0	71.7	0.2	0.7	0.6	0.1	0.1	40.7	100

NB: (*) Excluding international bunkers (international traffic departing from the EU).

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

(***) Total transport share in total emissions.

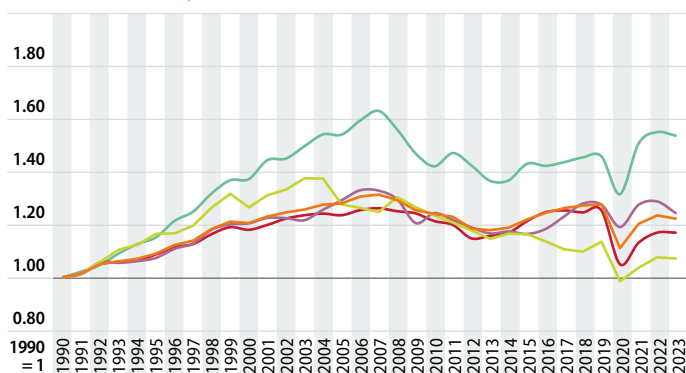
3.2.7 GHG emissions from road transport

EU-27 – BY TRANSPORT MEAN

(MILLION TONNES CO₂ EQUIVALENT)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	620.7	388.5	59.3	163.8	8.6	0.4	829.5	5 028.1
1995	675.9	421.8	68.1	175.7	10.1	0.2	893.9	4 731.2
2000	746.9	457.8	81.1	197.0	10.9	0.1	1011.6	4 667.2
2005	792.4	479.0	91.0	211.2	11.0	0.2	1093.8	4 795.7
2010	768.5	470.4	84.0	203.3	10.6	0.1	1067.9	4 428.4
2015	755.6	470.5	84.5	190.4	10.0	0.1	1028.5	4 047.6
2020	688.5	407.4	77.8	194.7	8.5	0.1	898.8	3 473.7
2021	745.3	438.8	89.0	208.4	9.0	0.1	977.0	3 661.3
2022	765.1	453.6	91.6	210.5	9.3	0.1	1 045.6	3 616.9
2023	757.1	453.6	90.8	203.3	9.3	0.1	1 039.3	3 350.5

Cars · Light-duty trucks · Heavy-duty trucks and buses · Motorcycles ·
Total road transport



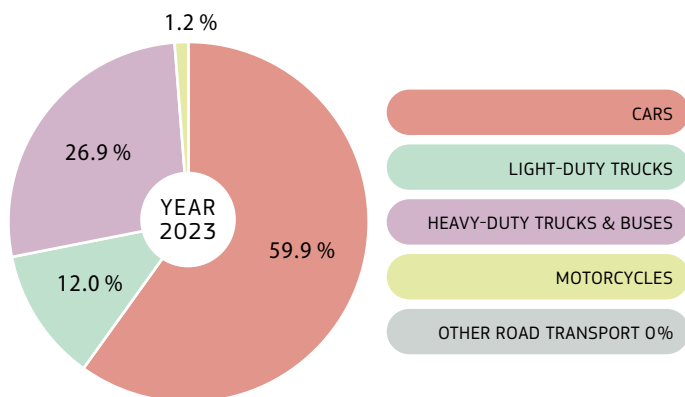
NB: (*) Including international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

GHG emissions from road transport 3.2.7

EU-27 – BY TRANSPORT MEAN

(SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.8	46.8	7.1	19.7	1.0	0.0	16.5	100
1995	75.6	47.2	7.6	19.7	1.1	0.0	18.9	100
2000	73.8	45.3	8.0	19.5	1.1	0.0	21.7	100
2005	72.4	43.8	8.3	19.3	1.0	0.0	22.8	100
2010	72.0	44.1	7.9	19.0	1.0	0.0	24.1	100
2015	73.5	45.7	8.2	18.5	1.0	0.0	25.4	100
2020	76.6	45.3	8.7	21.7	0.9	0.0	25.9	100
2021	76.3	44.9	9.1	21.3	0.9	0.0	26.7	100
2022	73.2	43.4	8.8	20.1	0.9	0.0	28.9	100
2023	72.9	43.6	8.7	19.6	0.9	0.0	31.0	100



NB: (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Total transport share in total emissions.

3.2.8

Total CO₂ emissions (*)

(MILLION TONNES)

	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	3 935.2	3 713.4	3 697.7	3 844.0	3 538.1	3 215.5	2 694.9	2 614.6
BE	123.5	128.9	131.5	129.2	118.7	105.7	94.9	90.0
BG	77.4	58.9	45.8	51.2	48.5	48.8	37.0	35.2
CZ	166.6	133.5	128.8	127.6	119.2	106.6	92.5	84.7
DK	56.4	64.6	57.5	54.8	52.1	38.1	29.5	28.6
DE	1 066.8	954.9	918.4	890.9	851.0	825.3	660.9	622.2
EE	37.0	18.1	15.5	17.2	19.1	15.9	9.3	8.9
IE	34.0	37.0	47.1	50.6	44.1	41.2	36.2	37.0
EL	85.9	89.6	105.5	116.5	99.9	77.8	56.9	56.2
ES	234.1	271.7	318.8	379.0	295.2	284.3	218.0	232.7
FR	409.2	404.7	429.9	441.6	403.5	359.7	299.0	296.2
HR	23.4	17.1	19.9	23.6	21.3	18.1	17.0	19.1
IT	443.9	455.7	478.7	511.0	445.5	371.6	307.3	324.7
CY	5.4	6.7	7.9	8.8	8.9	7.7	7.2	8.1
LV	19.9	9.2	7.2	8.0	8.9	7.6	7.2	7.0
LT	36.2	15.2	11.9	14.0	14.0	13.3	13.7	12.9
LU	12.2	9.7	9.7	13.4	12.5	10.7	9.7	8.6
HU	73.9	62.0	59.0	61.0	52.7	47.1	47.4	41.3
MT	2.6	2.8	2.8	2.9	2.9	2.1	1.8	2.2
NL	168.6	181.7	182.6	189.5	193.1	175.8	144.0	127.4
AT	63.1	65.4	67.9	81.1	74.0	68.5	63.2	59.5
PL	377.2	363.6	318.6	324.0	336.0	314.9	304.0	287.1
PT	46.9	56.3	67.7	72.1	55.7	55.5	43.4	42.5
RO	177.3	126.3	93.6	101.7	85.0	78.8	74.1	68.2
SI	15.1	15.4	15.1	17.0	16.5	13.7	12.9	12.1
SK	61.7	44.3	41.3	43.1	38.6	34.7	31.3	31.0
FI	58.1	59.2	58.2	58.4	65.8	46.2	38.7	33.8
SE	58.8	60.9	56.8	55.8	55.2	45.5	37.7	37.7
IS	2.4	2.7	3.3	3.4	4.0	4.2	3.6	4.5
NO	35.7	39.0	43.0	44.2	46.9	47.1	41.8	40.5
CH	47.6	47.4	48.5	49.4	49.4	43.8	36.5	37.1

NB: (*) Excluding international maritime and LULUCF (land use, land-use change and forestry) emissions, including international aviation and indirect CO₂.

Emissions data are downloaded from the European Environment Agency (EEA), which is the main provider for EU-wide GHG emissions data. EEA prepares and maintains the complete EU GHG emissions inventory, which is based on data reported by Member States through the EU GHG monitoring mechanism and the UNFCCC process.

CO₂ emissions from transport 3.2.9

(MILLION TONNES)

INCLUDING INTERNATIONAL BUNKERS (*)

	1990	1995	2000	2005	2010	2015	2020	2023
EU-27	815.9	878.4	997.5	1 082.1	1 057.2	1 017.9	889.0	1 028.2
BE	37.1	38.5	45.6	55.3	55.6	49.9	45.6	51.9
BG	7.2	6.0	5.8	8.6	8.8	9.9	9.8	10.9
CZ	11.7	10.8	12.4	18.1	17.6	18.2	17.9	20.7
DK	15.3	18.7	18.6	18.3	17.7	17.3	14.4	15.8
DE	180.4	195.6	205.6	186.2	183.1	192.8	162.8	176.3
EE	3.2	2.0	2.1	2.7	3.1	3.5	3.4	3.5
IE	6.2	7.6	12.9	15.7	14.1	14.7	11.9	15.5
EL	24.7	30.1	32.4	33.1	33.4	25.5	21.7	28.0
ES	74.1	85.8	114.1	139.2	131.0	121.4	99.8	131.0
FR	137.4	148.1	162.7	164.9	156.2	155.2	120.0	142.0
HR	4.4	3.6	4.6	5.8	6.2	6.3	6.0	8.2
IT	108.9	121.3	133.4	141.9	131.6	120.1	93.6	124.1
CY	2.1	2.5	3.2	3.8	3.8	3.4	3.1	3.8
LV	4.7	2.6	2.3	4.1	4.4	4.2	3.9	3.6
LT	6.4	3.7	3.5	4.7	4.9	5.5	6.8	6.8
LU	3.0	3.9	5.8	8.5	7.8	7.0	6.2	5.8
HU	9.3	7.9	9.7	12.7	12.3	12.6	12.8	14.7
MT	1.4	2.3	3.1	2.9	5.5	5.9	7.8	8.5
NL	67.2	72.5	85.0	96.5	89.3	78.7	69.1	69.3
AT	14.7	17.0	20.4	26.8	24.5	24.7	22.0	22.3
PL	22.2	24.4	29.7	37.6	50.9	50.0	64.7	72.0
PT	13.6	16.6	23.0	23.5	23.1	21.4	18.4	24.6
RO	12.9	8.9	10.0	12.7	14.6	16.3	18.4	22.2
SI	2.7	3.9	3.6	4.5	5.4	5.6	4.9	5.4
SK	6.8	5.5	5.7	7.7	7.5	7.4	7.1	7.8
FI	14.7	13.0	15.0	15.6	14.9	13.6	12.2	12.2
SE	23.7	25.4	27.3	30.5	30.2	26.9	24.8	21.4
IS	0.8	0.9	1.1	1.3	1.3	1.7	1.2	2.2
NO	12.7	13.6	15.4	16.3	16.7	16.8	13.3	14.1
CH	17.5	17.7	20.4	19.2	20.5	20.1	15.5	18.5

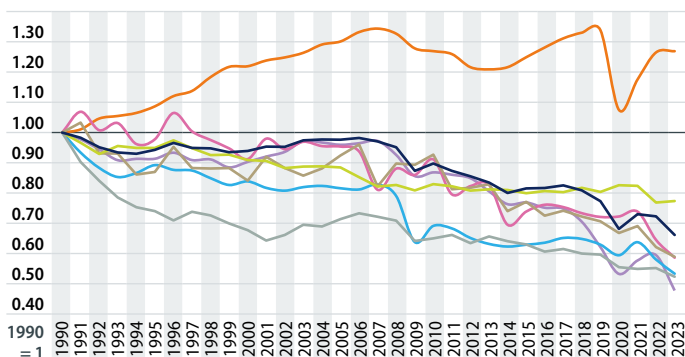
NB: (*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries.

3.2.10

CO₂ emissions (*) EU-27 BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3594.5	3571.3	1434.0	1226.2	107.0	100.8	715.5	151.5	12.0	94.4	30.1	45.6	382.0
1995	3405.1	3383.8	1310.9	1118.5	110.0	82.4	632.8	130.5	11.2	92.7	33.9	54.9	309.6
2000	3385.8	3364.8	1296.3	1118.5	116.5	61.3	573.1	116.6	12.5	79.6	31.8	49.1	283.6
2005	3526.5	3505.5	1376.5	1188.6	125.3	62.6	543.1	105.7	11.2	76.7	30.2	45.2	274.1
2010	3269.7	3248.4	1246.8	1075.1	116.8	54.9	464.1	92.9	10.7	66.1	26.5	36.5	231.5
2015	2960.4	2938.1	1105.4	959.0	107.4	39.0	413.6	85.0	8.2	57.3	22.7	34.8	205.5
2020	2454.4	2435.3	769.8	644.1	93.3	32.4	392.6	66.9	8.2	58.3	21.5	33.8	203.9
2021	2628.0	2610.1	832.7	708.8	92.7	31.1	421.7	77.7	9.3	61.5	22.7	35.0	215.6
2022	2625.6	2607.2	857.7	729.5	98.5	29.8	386.3	69.8	8.4	53.1	20.1	33.5	201.4
2023	2403.6	2386.7	691.6	568.0	96.0	27.7	358.3	67.6	7.7	47.4	16.2	31.8	187.6

Energy industries · Industry (***) · Transport (**) · Residential · Commercial / Institutional · Agriculture / Forestry / Fisheries (****) · Other (*****) · Total

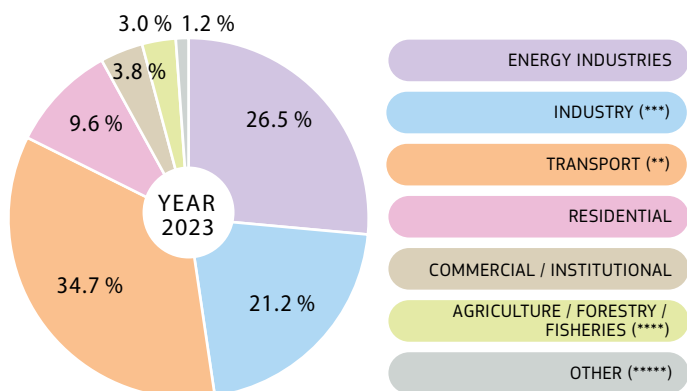


- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from manufacturing and construction, industrial processes and product use.
 (****) Emissions from fuel combustion and other emissions from agriculture.
 (*****) Emissions from other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO₂ and other.

CO₂ emissions (*) EU-27 BY SECTOR (MILLION TONNES)

3.2.10

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
716.2	683.7	169.6	426.5	87.6	21.9	23.2	315.5	14.2	3.4		7.6	3935.2	1990
778.1	651.8	147.8	417.3	86.7	10.2	21.3	288.2	9.9	3.3		6.9	3713.4	1995
872.1	614.9	143.0	389.5	82.4	8.5	21.0	292.9	10.2	2.5		6.3	3697.7	2000
930.3	644.9	156.9	407.0	81.1	10.6	21.0	299.8	9.2	3.0		5.7	3844.0	2005
907.6	622.3	157.4	389.0	75.9	7.7	21.3	251.9	8.8	2.9		4.8	3538.1	2010
893.2	519.1	131.2	316.0	71.9	6.8	22.4	238.8	9.8	2.3		4.1	3215.5	2015
769.6	497.4	113.8	309.2	74.4	5.9	19.2	224.2	10.0	2.4		3.9	2694.9	2020
841.0	508.0	117.6	316.0	74.4	6.7	17.9	239.1	9.7	2.6		3.9	2883.4	2021
904.7	451.5	106.0	276.3	69.2	7.0	18.4	215.7	9.3	2.3		3.6	2856.5	2022
907.5	422.0	100.6	251.6	69.8	7.3	16.9	196.3	9.3	2.0		3.4	2614.6	2023



- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
- (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
- (***) Emissions from manufacturing and construction, industrial processes and product use.
- (****) Emissions from fuel combustion and other emissions from agriculture.
- (*****) Emissions from other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO₂ and other.

3.2.10

CO₂ emissions (*) EU-27

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	91.3	90.8	36.4	31.2	2.7	2.6	18.2	3.8	0.3	2.4	0.8	1.2	9.7
1991	91.9	91.4	36.2	31.2	2.6	2.4	17.4	3.6	0.3	2.3	0.8	1.3	9.0
1992	92.0	91.5	36.2	31.2	2.7	2.2	16.9	3.5	0.3	2.0	0.8	1.3	9.1
1993	92.2	91.6	35.4	30.4	2.8	2.2	16.7	3.3	0.3	2.0	0.8	1.3	8.9
1994	91.8	91.2	35.8	30.6	2.9	2.3	16.7	3.5	0.3	2.2	0.9	1.4	8.5
1995	91.7	91.1	35.3	30.1	3.0	2.2	17.0	3.5	0.3	2.5	0.9	1.5	8.3
1996	92.1	91.5	35.2	30.2	3.0	2.0	16.4	3.2	0.3	2.4	0.9	1.5	8.2
1997	91.8	91.2	34.9	29.8	3.0	2.0	16.5	3.3	0.3	2.4	0.9	1.4	8.1
1998	91.8	91.2	35.0	30.0	3.1	1.9	15.8	3.2	0.3	2.1	0.9	1.4	7.9
1999	91.9	91.3	34.5	29.7	3.1	1.7	15.6	3.0	0.3	2.2	0.9	1.4	7.9
2000	91.6	91.0	35.1	30.2	3.1	1.7	15.5	3.2	0.3	2.2	0.9	1.3	7.7
2001	92.0	91.5	35.2	30.5	3.1	1.6	15.0	2.9	0.3	2.1	0.8	1.3	7.5
2002	91.9	91.4	35.8	31.1	3.1	1.6	14.7	2.8	0.3	2.0	0.8	1.3	7.4
2003	91.9	91.4	36.4	31.7	3.1	1.6	14.5	2.8	0.3	2.0	0.8	1.3	7.4
2004	91.7	91.1	36.0	31.2	3.2	1.6	14.2	2.8	0.3	2.0	0.8	1.2	7.2
2005	91.7	91.2	35.8	30.9	3.3	1.6	14.1	2.7	0.3	2.0	0.8	1.2	7.1
2006	91.6	91.0	35.8	30.9	3.2	1.7	13.8	2.8	0.3	1.9	0.8	1.1	7.0
2007	91.3	90.7	36.5	31.6	3.3	1.6	14.2	2.9	0.3	2.0	0.8	1.1	7.2
2008	91.7	91.1	35.5	30.6	3.3	1.5	14.0	2.8	0.3	2.0	0.7	1.0	7.1
2009	92.9	92.3	35.7	30.9	3.4	1.4	12.6	2.1	0.3	1.9	0.8	1.0	6.5
2010	92.4	91.8	35.2	30.4	3.3	1.6	13.1	2.6	0.3	1.9	0.7	1.0	6.5
2011	92.2	91.6	35.9	31.1	3.3	1.5	13.2	2.7	0.3	1.9	0.7	1.0	6.6
2012	92.5	91.8	36.2	31.5	3.3	1.3	13.0	2.6	0.3	1.9	0.7	1.0	6.4
2013	92.4	91.7	35.2	30.6	3.3	1.3	12.8	2.5	0.3	1.8	0.7	1.1	6.4
2014	91.8	91.1	34.8	30.1	3.3	1.3	12.8	2.5	0.3	1.8	0.7	1.1	6.5
2015	92.1	91.4	34.4	29.8	3.3	1.2	12.9	2.6	0.3	1.8	0.7	1.1	6.4
2016	92.0	91.3	33.5	29.0	3.3	1.2	13.0	2.5	0.3	1.8	0.7	1.1	6.6
2017	91.8	91.1	33.1	28.7	3.2	1.2	13.1	2.5	0.3	1.8	0.7	1.1	6.6
2018	91.7	91.0	31.8	27.4	3.1	1.3	13.3	2.6	0.3	1.9	0.7	1.1	6.7
2019	91.6	90.9	29.4	24.8	3.3	1.3	13.5	2.6	0.3	1.9	0.8	1.2	6.8
2020	91.1	90.4	28.6	23.9	3.5	1.2	14.6	2.5	0.3	2.2	0.8	1.3	7.6
2021	91.1	90.5	28.9	24.6	3.2	1.1	14.6	2.7	0.3	2.1	0.8	1.2	7.5
2022	91.9	91.3	30.0	25.5	3.4	1.0	13.5	2.4	0.3	1.9	0.7	1.2	7.1
2023	91.9	91.3	26.5	21.7	3.7	1.1	13.7	2.6	0.3	1.8	0.6	1.2	7.2

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂. Indirect emissions from electricity use are not included in the CO₂ emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

CO₂ emissions (*) EU-27

BY SECTOR (SHARES %)

3.2.10

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Indirect CO ₂	TOTAL EMISSIONS	
Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries					Agriculture	Waste	Other				
18.2	17.4	4.3	10.8	2.2	0.6	0.6	8.0	0.4	0.1		0.2	100	1990
18.7	18.6	4.5	11.8	2.3	0.5	0.6	7.5	0.3	0.1		0.2	100	1991
20.0	18.0	4.2	11.5	2.3	0.4	0.6	7.4	0.3	0.1		0.2	100	1992
20.5	18.6	4.3	12.0	2.4	0.3	0.6	7.2	0.3	0.1		0.2	100	1993
20.8	17.6	4.0	11.2	2.4	0.3	0.6	7.7	0.3	0.1		0.2	100	1994
21.0	17.6	4.0	11.2	2.3	0.3	0.6	7.8	0.3	0.1		0.2	100	1995
21.1	18.5	4.3	11.9	2.3	0.2	0.5	7.4	0.3	0.1		0.2	100	1996
21.8	17.8	4.0	11.5	2.3	0.3	0.6	7.7	0.3	0.1		0.2	100	1997
22.7	17.4	4.0	11.1	2.3	0.3	0.6	7.7	0.3	0.1		0.2	100	1998
23.6	17.3	4.1	11.0	2.3	0.2	0.6	7.6	0.3	0.1		0.2	100	1999
23.6	16.6	3.9	10.5	2.2	0.2	0.6	7.9	0.3	0.1		0.2	100	2000
23.6	17.5	4.2	11.1	2.2	0.2	0.5	7.5	0.3	0.1		0.2	100	2001
23.8	16.9	4.0	10.7	2.1	0.2	0.5	7.6	0.3	0.1		0.2	100	2002
23.6	16.7	3.8	10.8	2.1	0.2	0.6	7.6	0.3	0.1		0.1	100	2003
24.0	16.6	3.9	10.6	2.1	0.3	0.5	7.9	0.2	0.1		0.1	100	2004
24.2	16.8	4.1	10.6	2.1	0.3	0.5	7.8	0.2	0.1		0.1	100	2005
24.6	16.6	4.2	10.3	2.0	0.2	0.6	7.9	0.2	0.1		0.1	100	2006
25.1	14.7	3.7	9.1	2.0	0.2	0.6	8.2	0.2	0.1		0.1	100	2007
25.3	16.1	4.1	10.0	2.0	0.2	0.6	7.8	0.2	0.1		0.1	100	2008
26.6	17.2	4.4	10.7	2.1	0.2	0.6	6.7	0.3	0.1		0.1	100	2009
25.7	17.6	4.4	11.0	2.1	0.2	0.6	7.1	0.2	0.1		0.1	100	2010
26.2	16.1	4.0	9.9	2.2	0.2	0.6	7.3	0.3	0.1		0.1	100	2011
25.8	16.7	4.1	10.4	2.2	0.2	0.6	7.0	0.3	0.1		0.1	100	2012
26.3	17.2	4.3	10.7	2.2	0.2	0.7	7.1	0.3	0.1		0.1	100	2013
27.6	15.7	4.0	9.4	2.3	0.2	0.7	7.6	0.3	0.1		0.1	100	2014
27.8	16.1	4.1	9.8	2.2	0.2	0.7	7.4	0.3	0.1		0.1	100	2015
28.4	16.2	3.8	10.1	2.2	0.2	0.7	7.5	0.3	0.1		0.1	100	2016
28.8	16.0	3.9	9.9	2.2	0.2	0.7	7.7	0.3	0.1		0.1	100	2017
29.8	16.0	3.9	9.8	2.3	0.2	0.7	7.8	0.3	0.1		0.1	100	2018
31.4	16.4	3.9	10.1	2.4	0.2	0.7	7.9	0.3	0.1		0.1	100	2019
28.6	18.5	4.2	11.5	2.8	0.2	0.7	8.3	0.4	0.1		0.1	100	2020
29.2	17.6	4.1	11.0	2.6	0.2	0.6	8.3	0.3	0.1		0.1	100	2021
31.7	15.8	3.7	9.7	2.4	0.2	0.6	7.6	0.3	0.1		0.1	100	2022
34.7	16.1	3.8	9.6	2.7	0.3	0.6	7.5	0.4	0.1		0.1	100	2023

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

Indirect emissions from electricity use are not included in the CO₂ emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

3.2.11

CO₂ emissions (*) 2023

BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	2403.6	2386.7	691.6	568.0	96.0	27.7	358.3	67.6	7.7	47.4	16.2	31.8	187.6
BE	76.8	76.7	15.5	10.8	4.5	0.2	12.1	1.0	0.5	3.3	0.5	2.4	4.4
BG	31.9	31.3	15.7	14.7	1.0	0.0	3.8	0.1	0.2	1.1	0.1	0.3	2.0
CZ	75.3	75.3	35.5	33.5	0.5	1.4	10.0	1.3	0.1	2.9	0.5	0.9	4.1
DK	26.8	26.8	6.4	4.7	0.9	0.8	3.0	0.1		0.2	0.0	0.7	2.0
DE	582.9	581.2	193.9	165.6	20.4	7.9	104.9	33.8	0.2		0.0	0.2	70.6
EE	8.8	8.8	5.4	3.7		1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1
IE	34.2	34.2	7.7	7.3	0.3	0.0	4.1	0.0	1.2	0.3	0.0	1.0	1.6
EL	51.7	51.7	20.9	15.3	5.5	0.0	4.3	0.1	0.6	0.4	0.1	0.6	2.5
ES	216.9	213.4	41.0	30.4	9.5	1.1	33.9	4.4	1.0	7.0	2.7	3.7	15.1
FR	267.3	265.7	33.8	26.1	5.6	2.0	35.3	3.3	0.7	7.5	2.0	6.7	15.1
HR	17.5	17.2	4.1	3.0	0.7	0.3	2.4	0.1	0.0	0.1	0.1	0.3	1.8
IT	310.8	309.0	75.1	53.6	18.2	3.3	49.5	9.1	1.1	8.1	3.9	3.3	24.0
CY	7.2	7.2	3.0	3.0			0.6	0.0	0.0	0.0	0.0	0.0	0.5
LV	6.3	6.3	1.0	0.9		0.1	0.6	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.3	11.1	2.3	0.9	1.4	0.0	1.1			0.2	0.0	0.3	0.6
LU	8.3	8.3	0.2	0.2			0.9	0.2	0.0	0.1	0.0	0.0	0.5
HU	37.7	37.5	9.2	7.4	1.6	0.2	4.0	0.1	0.1	0.4	0.4	0.8	2.3
MT	2.2	2.2	0.8	0.8			0.1	0.0		0.0	0.0	0.0	0.0
NL	115.6	114.5	37.1	26.2	9.3	1.6	17.0	3.6	0.1	5.8	0.6	3.2	3.7
AT	45.9	45.8	7.2	4.4	2.6	0.2	9.5	1.7	0.3	1.3	1.2	0.8	4.2
PL	270.5	266.9	127.0	119.1	4.5	3.5	26.2	3.2	1.0	5.0	1.2	4.4	11.3
PT	39.2	38.2	5.8	4.4	1.4		5.8	0.1		0.6	0.8	0.6	3.6
RO	61.7	60.9	15.5	12.6	1.7	1.2	11.4	0.5	0.2	1.4	0.2	0.9	8.2
SI	11.4	11.3	3.3	3.3			1.5	0.2	0.1	0.1	0.2	0.1	0.8
SK	24.1	24.0	6.4	3.2	1.9	1.3	5.6	2.6	0.0	0.4	0.2	0.3	2.1
FI	29.7	29.6	9.9	8.0	1.5	0.3	4.9	0.8	0.1	0.6	1.3	0.1	2.1
SE	31.8	31.8	8.2	4.7	3.1	0.4	5.7	1.3	0.1	0.4	0.0	0.1	3.8
IS	2.7	2.5	0.0	0.0			0.1	0.0	0.0			0.0	0.1
NO	32.6	31.1	12.3	1.0	0.8	10.5	2.4	0.1	0.2	0.1	0.1	0.4	1.6
CH	35.1	35.1	3.1	2.8	0.3		3.8	0.2	0.1	0.5	0.1	0.6	2.4

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ emissions (*) 2023

BY SECTOR (MILLION TONNES)

3.2.11

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
907.5	422.0	100.6	251.6	69.8	7.3	16.9	196.3	9.3	2.0		3.4	2614.6	EU-27
29.7	19.3	4.5	12.5	2.3	0.1	0.1	12.8	0.2	0.2			90.0	BE
10.7	1.0	0.3	0.3	0.5	0.1	0.7	3.1	0.1	0.0			35.2	BG
20.7	8.8	2.0	5.6	1.1	0.3	0.0	8.6	0.3	0.1		0.4	84.7	CZ
14.2	2.9	0.6	0.9	1.4	0.3	0.1	1.2	0.2	0.0		0.3	28.6	DK
172.9	108.7	22.9	77.9	7.9	0.8	1.7	36.8	2.5				622.2	DE
2.8	0.4	0.2	0.2	0.1		0.0	0.1	0.0				8.9	EE
15.1	7.4	1.4	5.2	0.8		0.0	2.1	0.6	0.0			37.0	IE
21.4	4.7	0.6	3.6	0.5	0.3	0.0	4.4	0.0	0.0			56.2	EL
104.0	34.0	8.7	13.3	12.1	0.5	3.5	15.3	0.4				232.7	ES
138.6	55.8	16.2	29.6	10.0	2.1	1.6	24.6	2.1	1.3		0.8	296.2	FR
8.1	2.6	0.5	1.4	0.7		0.3	1.5	0.0				19.1	HR
119.5	64.4	21.0	36.5	7.0	0.4	1.7	12.6	0.4	0.1		0.9	324.7	IT
3.1	0.4	0.1	0.3	0.1	0.0		1.0	0.0			0.0	8.1	CY
3.5	1.2	0.4	0.4	0.4	0.0	0.0	0.6	0.1			0.0	7.0	LV
6.4	1.3	0.3	0.7	0.2	0.0	0.2	1.5	0.1	0.0		0.0	12.9	LT
5.8	1.4	0.5	0.9	0.0	0.0	0.0	0.4	0.0				8.6	LU
14.7	9.5	2.0	6.2	1.3	0.1	0.1	3.4	0.2	0.0			41.3	HU
1.2	0.1	0.1	0.0	0.0	0.0		0.0		0.0			2.2	MT
36.1	24.1	5.4	11.4	7.3	0.2	1.0	11.3	0.1			0.4	127.4	NL
22.2	6.9	1.0	5.0	0.8	0.0	0.1	13.5	0.1	0.0			59.5	AT
71.1	42.6	5.3	27.6	9.8		3.6	15.0	1.2			0.4	287.1	PL
22.8	3.7	1.2	1.3	1.3	0.0	1.0	3.2	0.0	0.0		0.1	42.5	PT
22.1	10.7	2.3	6.9	1.5	1.2	0.8	6.4	0.1	0.0			68.2	RO
5.4	1.1	0.3	0.6	0.2	0.0	0.1	0.6	0.0	0.0			12.1	SI
7.8	4.2	1.3	2.6	0.3	0.1	0.1	6.7	0.1	0.0		0.0	31.0	SK
11.3	2.8	1.1	0.4	1.3	0.7	0.1	3.9	0.2			0.0	33.8	FI
16.1	1.8	0.5	0.4	1.0		0.0	5.6	0.1	0.1			37.7	SE
1.9	0.5	0.0	0.0	0.5	0.0	0.2	1.7	0.0	0.0			4.5	IS
13.3	2.8	1.1	0.3	1.4	0.2	1.5	7.4	0.1	0.2		0.1	40.5	NO
18.5	9.5	2.9	6.1	0.5	0.1	0.0	1.8	0.0	0.0	0.0	0.1	37.1	CH

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.11

CO₂ emissions (*) 2023

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	91.9	91.3	26.5	21.7	3.7	1.1	13.7	2.6	0.3	1.8	0.6	1.2	7.2
BE	85.3	85.2	17.2	12.0	5.0	0.2	13.4	1.1	0.5	3.7	0.6	2.6	4.9
BG	90.9	88.9	44.6	41.8	2.7	0.0	10.8	0.3	0.7	3.1	0.2	0.8	5.7
CZ	88.9	88.9	41.9	39.6	0.6	1.7	11.8	1.6	0.2	3.5	0.6	1.1	4.9
DK	94.0	93.7	22.4	16.3	3.1	2.9	10.4	0.3		0.6	0.1	2.3	7.1
DE	93.7	93.4	31.2	26.6	3.3	1.3	16.9	5.4	0.0		0.0	0.0	11.4
EE	98.9	98.9	61.0	41.2		19.8	2.5	0.0	0.0	0.1	0.3	0.5	1.7
IE	92.6	92.6	20.7	19.9	0.8	0.1	11.2	0.0	3.2	0.9	0.0	2.8	4.2
EL	92.1	92.1	37.2	27.3	9.9	0.1	7.7	0.2	1.1	0.7	0.2	1.1	4.4
ES	93.2	91.7	17.6	13.1	4.1	0.5	14.6	1.9	0.4	3.0	1.2	1.6	6.5
FR	90.2	89.7	11.4	8.8	1.9	0.7	11.9	1.1	0.2	2.5	0.7	2.3	5.1
HR	91.8	90.2	21.3	15.9	3.8	1.6	12.8	0.3	0.2	0.6	0.6	1.6	9.5
IT	95.7	95.2	23.1	16.5	5.6	1.0	15.3	2.8	0.3	2.5	1.2	1.0	7.4
CY	88.1	88.1	37.4	37.4			6.8	0.0	0.0	0.1	0.0	0.6	6.0
LV	90.3	90.3	13.8	12.9		0.9	8.4	0.0	0.0	0.3	0.1	1.3	6.6
LT	87.9	86.3	18.2	7.2	10.7	0.3	8.3			1.6	0.2	2.1	4.4
LU	95.7	95.7	2.2	2.2			10.2	2.7	0.5	1.0	0.1	0.1	5.7
HU	91.3	90.9	22.3	17.9	3.8	0.6	9.8	0.1	0.4	0.9	0.9	1.9	5.5
MT	99.7	99.7	35.7	35.7			2.9	0.0		0.2	0.1	0.4	2.2
NL	90.7	89.9	29.1	20.6	7.3	1.3	13.3	2.8	0.1	4.6	0.5	2.5	2.9
AT	77.0	76.9	12.1	7.5	4.3	0.3	16.0	2.9	0.5	2.2	2.0	1.3	7.0
PL	94.2	93.0	44.2	41.5	1.6	1.2	9.1	1.1	0.4	1.7	0.4	1.5	3.9
PT	92.1	89.7	13.6	10.3	3.2		13.6	0.2		1.5	1.9	1.5	8.5
RO	90.5	89.3	22.7	18.5	2.4	1.8	16.7	0.8	0.3	2.1	0.3	1.3	12.0
SI	94.2	93.4	27.3	27.3			12.4	1.4	1.0	0.6	1.7	0.8	7.0
SK	77.9	77.7	20.5	10.3	6.1	4.1	18.2	8.5	0.2	1.3	0.6	1.0	6.7
FI	87.9	87.6	29.2	23.8	4.4	0.9	14.6	2.2	0.3	1.8	3.9	0.3	6.1
SE	84.4	84.4	21.7	12.5	8.2	1.0	15.0	3.3	0.3	1.1	0.1	0.3	10.0
IS	60.6	56.8	0.2	0.2			2.3	0.0	0.1			0.9	1.3
NO	80.6	76.8	30.3	2.4	1.9	26.0	6.0	0.1	0.5	0.4	0.2	0.9	3.9
CH	94.6	94.6	8.4	7.5	0.9		10.3	0.6	0.3	1.3	0.3	1.6	6.3

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ emissions (*) 2023

BY SECTOR (SHARES %)

3.2.11

TRANSPORT (**)	OTHER SECTORS					OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE					TOTAL EMISSIONS	
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries					Agriculture	Waste	Other	Indirect CO ₂			
34.7	16.1	3.8	9.6	2.7	0.3	0.6	7.5	0.4	0.1		0.1	100	EU-27	
33.0	21.4	5.0	13.9	2.6	0.1	0.1	14.2	0.2	0.3			100	BE	
30.5	2.9	0.9	0.7	1.3	0.2	2.0	8.9	0.3	0.0			100	BG	
24.5	10.4	2.4	6.6	1.4	0.3	0.0	10.2	0.3	0.1		0.5	100	CZ	
49.8	10.2	2.1	3.3	4.8	0.9	0.3	4.3	0.7	0.0		1.0	100	DK	
27.8	17.5	3.7	12.5	1.3	0.1	0.3	5.9	0.4				100	DE	
31.1	4.3	1.8	1.7	0.7		0.0	0.8	0.3				100	EE	
40.8	19.9	3.7	14.1	2.1		0.0	5.7	1.6	0.1			100	IE	
38.1	8.4	1.2	6.4	0.9	0.6	0.0	7.8	0.1	0.0			100	EL	
44.7	14.6	3.7	5.7	5.2	0.2	1.5	6.6	0.2				100	ES	
46.8	18.8	5.5	10.0	3.4	0.7	0.5	8.3	0.7	0.5		0.3	100	FR	
42.5	13.6	2.6	7.4	3.6		1.6	8.1	0.1				100	HR	
36.8	19.8	6.5	11.2	2.1	0.1	0.5	3.9	0.1	0.0		0.3	100	IT	
38.0	5.5	1.3	3.3	0.9	0.3		11.9	0.0			0.1	100	CY	
50.0	17.8	6.0	5.5	6.3	0.3	0.0	8.4	1.1			0.2	100	LV	
49.7	9.8	2.3	5.8	1.7	0.4	1.5	11.3	0.5	0.0		0.3	100	LT	
67.3	16.1	5.3	10.5	0.3	0.0	0.0	4.1	0.1				100	LU	
35.7	23.0	4.9	15.0	3.1	0.2	0.4	8.3	0.4	0.0			100	HU	
54.9	6.1	2.6	1.3	2.2	0.2		0.3		0.0			100	MT	
28.4	18.9	4.2	8.9	5.7	0.2	0.8	8.9	0.1			0.3	100	NL	
37.3	11.5	1.7	8.4	1.4	0.0	0.1	22.7	0.2	0.0			100	AT	
24.8	14.8	1.8	9.6	3.4		1.2	5.2	0.4			0.1	100	PL	
53.7	8.7	2.7	3.0	3.0	0.1	2.4	7.4	0.1	0.1		0.3	100	PT	
32.5	15.7	3.3	10.1	2.2	1.7	1.2	9.3	0.2	0.0			100	RO	
44.4	9.3	2.8	4.7	1.8	0.0	0.8	5.3	0.3	0.1			100	SI	
25.2	13.6	4.3	8.4	0.8	0.2	0.3	21.7	0.2	0.0		0.1	100	SK	
33.4	8.4	3.3	1.1	3.9	2.1	0.3	11.4	0.6			0.1	100	FI	
42.7	4.9	1.4	0.9	2.5		0.0	14.9	0.4	0.3			100	SE	
42.8	11.3	0.1	0.1	11.2	0.0	3.9	39.1	0.2	0.1			100	IS	
33.0	7.0	2.8	0.7	3.6	0.6	3.7	18.4	0.3	0.5		0.3	100	NO	
49.9	25.6	7.7	16.4	1.4	0.3	0.0	5.0	0.1	0.0	0.0	0.3	100	CH	

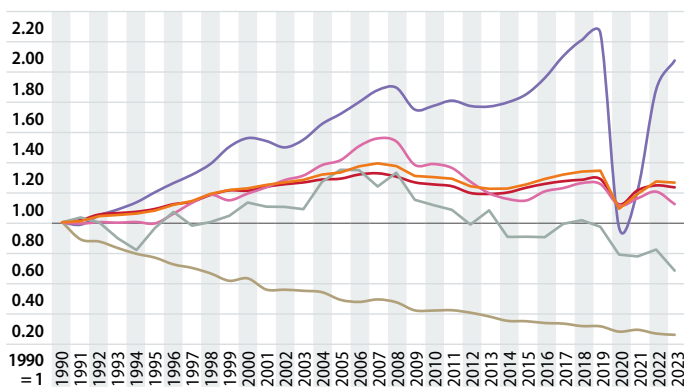
NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.12 CO₂ emissions from transport EU-27 – BY MODE (MILLION TONNES)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation				Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport				
1990	65.5	11.3	54.2	609.8	12.2	122.4	22.7	99.7	6.1	815.9	4 035.0
1995	78.4	12.6	65.7	663.2	9.4	121.6	21.3	100.3	5.8	878.4	3 813.7
2000	101.6	16.7	84.8	735.9	7.7	145.5	20.1	125.4	6.8	997.5	3 823.1
2005	111.9	16.4	95.6	783.8	6.0	172.2	20.4	151.7	8.1	1 082.1	3 995.8
2010	115.4	15.5	99.8	760.9	5.2	169.1	19.4	149.7	6.7	1 057.2	3 687.8
2015	120.3	13.0	107.3	747.8	4.3	139.9	15.3	124.7	5.5	1 017.9	3 340.2
2020	63.4	7.8	55.6	681.1	3.5	136.3	16.8	119.5	4.8	889.0	2 814.4
2021	79.1	9.7	69.4	737.3	3.6	141.6	16.3	125.3	4.7	966.4	3 008.7
2022	122.3	13.1	109.2	756.9	3.3	147.0	17.2	129.8	5.0	1 034.5	2 986.3
2023	134.8	13.1	121.7	749.1	3.2	137.0	16.2	120.8	4.1	1 028.2	2 735.4

Total civil aviation - Road transportation - Railways (***) - Total navigation - Other - Total transport



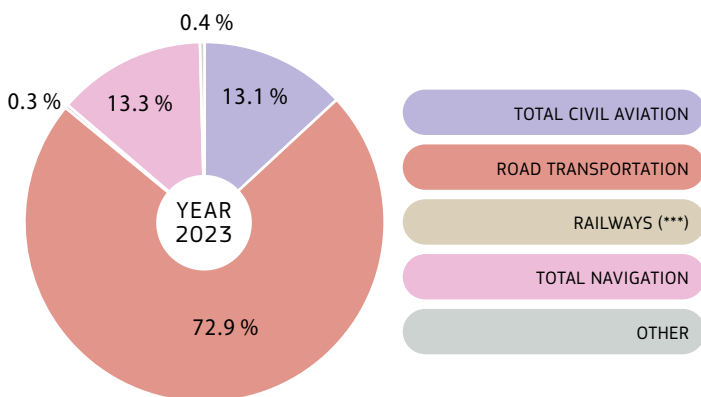
- NB: (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

CO₂ emissions from transport 3.2.12

EU-27 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation				Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport				
1990	8.0	1.4	6.6	74.7	1.5	15.0	2.8	12.2	0.7	20.2	100
1995	8.9	1.4	7.5	75.5	1.1	13.8	2.4	11.4	0.7	23.0	100
2000	10.2	1.7	8.5	73.8	0.8	14.6	2.0	12.6	0.7	26.1	100
2005	10.3	1.5	8.8	72.4	0.6	15.9	1.9	14.0	0.8	27.1	100
2010	10.9	1.5	9.4	72.0	0.5	16.0	1.8	14.2	0.6	28.7	100
2015	11.8	1.3	10.5	73.5	0.4	13.7	1.5	12.2	0.5	30.5	100
2020	7.1	0.9	6.2	76.6	0.4	15.3	1.9	13.4	0.5	31.6	100
2021	8.2	1.0	7.2	76.3	0.4	14.7	1.7	13.0	0.5	32.1	100
2022	11.8	1.3	10.6	73.2	0.3	14.2	1.7	12.5	0.5	34.6	100
2023	13.1	1.3	11.8	72.9	0.3	13.3	1.6	11.7	0.4	37.6	100



- NB:** (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
 (*****) Total transport share in total emissions.

3.2.13 CO₂ emissions from transport 2023 – BY MODE (MILLION TONNES)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
EU-27	134.8	13.1	121.7	749.1	3.2	137.0	16.2	120.8	4.1	1028.2	2735.4
BE	5.3	0.0	5.3	23.5	0.1	22.6	0.4	22.2	0.5	51.9	112.2
BG	0.7	0.0	0.7	9.8	0.0	0.2	0.0	0.2	0.2	10.9	35.4
CZ	1.1	0.0	1.0	19.4	0.2	0.0	0.0		0.0	20.7	84.7
DK	2.6	0.1	2.5	11.0	0.2	2.1	0.5	1.6		15.8	30.2
DE	29.5	1.1	28.4	140.3	0.8	4.8	1.4	3.4	0.9	176.3	625.6
EE	0.2	0.0	0.1	2.3	0.0	0.7	0.0	0.7	0.2	3.5	9.6
IE	3.4	0.0	3.4	11.1	0.1	0.7	0.3	0.4	0.1	15.5	37.4
EL	4.6	0.4	4.2	14.8	0.0	8.6	2.1	6.5	0.0	28.0	62.7
ES	20.5	3.3	17.2	80.4	0.2	29.8	2.8	27.0	0.2	131.0	259.7
FR	20.9	4.4	16.5	115.7	0.3	4.8	1.5	3.4	0.3	142.0	299.6
HR	0.6	0.0	0.6	7.3	0.0	0.2	0.1	0.1		8.2	19.1
IT	14.0	2.4	11.6	99.9	0.0	9.2	4.7	4.5	0.9	124.1	329.3
CY	1.0	0.0	1.0	2.1		0.7	0.0	0.7		3.8	8.9
LV	0.4	0.0	0.4	3.0	0.1	0.1	0.0	0.1		3.6	7.1
LT	0.3	0.0	0.3	5.9	0.1	0.4	0.0	0.4	0.0	6.8	13.2
LU	1.8	0.0	1.8	4.0	0.0	0.0	0.0	0.0		5.8	8.6
HU	0.9	0.0	0.9	13.7	0.1	0.0	0.0		0.0	14.7	41.3
MT	0.5	0.0	0.5	0.7		7.3	0.1	7.2		8.5	9.5
NL	10.0	0.0	10.0	25.1	0.1	34.1	0.9	33.2	0.1	69.3	160.6
AT	2.7	0.0	2.6	19.4	0.1	0.1	0.1	0.0	0.0	22.3	59.6
PL	3.7	0.1	3.5	67.1	0.3	0.8	0.0	0.8	0.1	72.0	288.0
PT	5.3	0.5	4.8	17.2	0.0	2.1	0.3	1.8		24.6	44.3
RO	0.4	0.1	0.3	21.2	0.3	0.2	0.1	0.1	0.0	22.2	68.2
SI	0.1	0.0	0.1	5.3	0.0	0.0	0.0		0.0	5.4	12.1
SK	0.2	0.0	0.2	7.5	0.1	0.0	0.0	0.0	0.0	7.8	31.0
FI	2.1	0.1	1.9	8.9	0.1	1.2	0.3	0.9		12.2	34.7
SE	2.5	0.3	2.1	12.6	0.0	6.0	0.7	5.3	0.3	21.4	43.0
IS	1.0	0.0	1.0	0.9		0.3	0.0	0.3	0.0	2.2	4.8
NO	2.7	1.1	1.6	7.9	0.1	3.5	2.7	0.8		14.1	41.2
CH	5.1	0.1	5.0	13.3	0.0	0.1	0.1	0.0	0.0	18.5	37.1

NB: (*) Excluding international bunkers (international traffic departing from the EU).

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

CO₂ emissions from transport 3.2.13

2023 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION			OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
		Civil aviation (domestic) (*)	Intl. bunkers - Intl. aviation			Navigation (domestic) (*)	Intl. bunkers - Intl. maritime transport				
EU-27	13.1	1.3	11.8	72.9	0.3	13.3	1.6	11.7	0.4	37.6	100
BE	10.2	0.0	10.1	45.2	0.1	43.6	0.7	42.8	1.0	46.3	100
BG	6.2	0.2	6.0	89.6	0.3	1.9	0.1	1.9	2.0	30.9	100
CZ	5.1	0.1	5.0	93.8	1.1	0.1	0.1		0.0	24.5	100
DK	16.5	0.8	15.7	69.3	1.1	13.1	2.9	10.2		52.4	100
DE	16.7	0.6	16.1	79.6	0.4	2.7	0.8	2.0	0.5	28.2	100
EE	4.3	0.2	4.2	67.2	1.2	21.3	0.6	20.7	6.0	36.3	100
IE	22.2	0.1	22.0	71.5	0.8	4.5	1.8	2.7	1.0	41.4	100
EL	16.4	1.5	14.9	52.8	0.0	30.8	7.4	23.4	0.0	44.6	100
ES	15.6	2.5	13.1	61.3	0.1	22.8	2.1	20.6	0.1	50.4	100
FR	14.7	3.1	11.6	81.4	0.2	3.4	1.0	2.4	0.2	47.4	100
HR	7.7	0.4	7.3	89.2	0.5	2.7	1.8	0.9		42.7	100
IT	11.3	1.9	9.4	80.5	0.0	7.4	3.8	3.7	0.8	37.7	100
CY	24.9	0.0	24.8	55.7		19.4	0.2	19.3		43.2	100
LV	11.3	0.1	11.2	83.5	1.9	3.3	0.1	3.2		50.8	100
LT	4.7	0.0	4.7	87.5	1.3	5.8	0.1	5.7	0.7	51.2	100
LU	30.8	0.0	30.8	69.1	0.1	0.0	0.0	0.0		67.3	100
HU	6.2	0.0	6.2	92.7	0.7	0.1	0.1		0.3	35.7	100
MT	5.6	0.0	5.5	8.1		86.4	0.9	85.5		89.3	100
NL	14.5	0.0	14.4	36.2	0.1	49.2	1.3	47.8	0.1	43.2	100
AT	12.0	0.1	11.8	87.1	0.3	0.4	0.3	0.1	0.2	37.4	100
PL	5.1	0.2	4.9	93.3	0.4	1.2	0.0	1.1	0.1	25.0	100
PT	21.4	2.1	19.4	70.0	0.1	8.5	1.2	7.3		55.6	100
RO	1.8	0.5	1.3	95.7	1.4	1.0	0.7	0.3	0.1	32.5	100
SI	1.0	0.0	1.0	98.6	0.4	0.0	0.0		0.0	44.4	100
SK	2.0	0.0	1.9	96.4	1.0	0.3	0.1	0.2	0.3	25.2	100
FI	16.9	1.1	15.8	72.8	0.5	9.9	2.6	7.3		35.1	100
SE	11.5	1.6	9.9	58.7	0.2	28.0	3.1	24.9	1.6	49.9	100
IS	43.8	1.0	42.8	40.7		15.4	0.7	14.7	0.0	46.7	100
NO	18.8	7.6	11.3	55.9	0.4	24.8	19.4	5.4		34.2	100
CH	27.4	0.3	27.1	71.7	0.2	0.7	0.6	0.1	0.1	49.9	100

NB: (*) Excluding international bunkers (international traffic departing from the EU).

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

(***) Total transport share in total emissions.

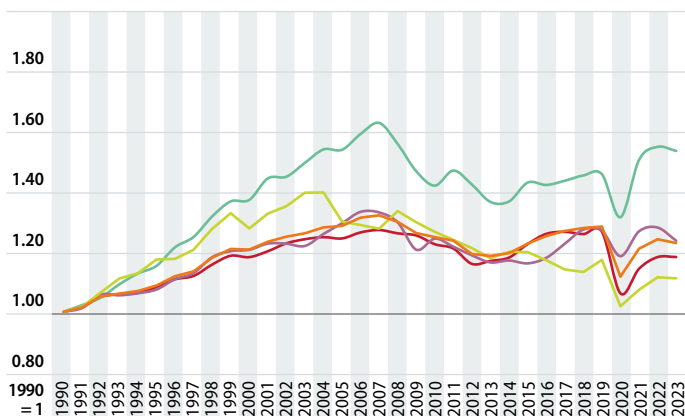
3.2.14

CO₂ emissions from road transport – EU-27

BY TRANSPORT MEAN (MILLION TONNES)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	609.8	380.4	58.7	162.2	8.1	0.4	815.9	4035.0
1995	663.2	411.7	67.6	174.2	9.5	0.2	878.4	3813.7
2000	735.9	449.4	80.4	195.6	10.3	0.1	997.5	3823.1
2005	783.8	473.0	90.2	209.9	10.5	0.2	1082.1	3995.8
2010	760.9	465.7	83.2	201.6	10.2	0.1	1057.2	3687.8
2015	747.8	466.0	83.8	188.3	9.7	0.1	1017.9	3340.2
2020	681.1	403.5	77.1	192.1	8.2	0.1	889.0	2814.4
2021	737.3	434.7	88.2	205.5	8.7	0.1	966.4	3008.7
2022	756.9	449.4	90.8	207.6	9.0	0.1	1034.5	2986.3
2023	749.1	449.5	90.0	200.5	9.0	0.1	1028.2	2735.4

Cars · Light-duty trucks · Heavy-duty trucks and buses · Motorcycles · Total road transport



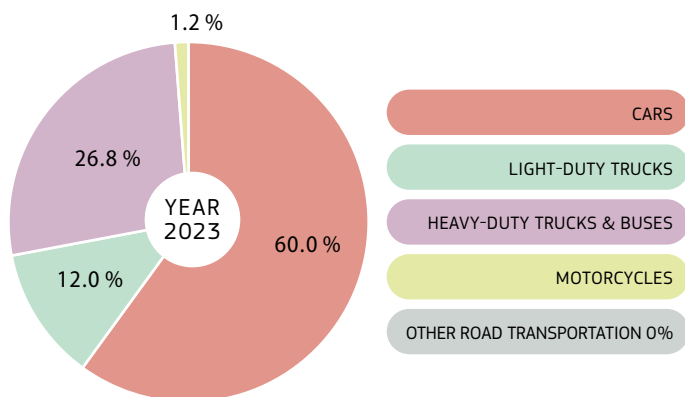
NB: (*) Including international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

CO₂ emissions from road transport – EU-27

3.2.14

BY TRANSPORT MEAN (SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.7	46.6	7.2	19.9	1.0	0.0	20.2	100
1995	75.5	46.9	7.7	19.8	1.1	0.0	23.0	100
2000	73.8	45.1	8.1	19.6	1.0	0.0	26.1	100
2005	72.4	43.7	8.3	19.4	1.0	0.0	27.1	100
2010	72.0	44.0	7.9	19.1	1.0	0.0	28.7	100
2015	73.5	45.8	8.2	18.5	1.0	0.0	30.5	100
2020	76.6	45.4	8.7	21.6	0.9	0.0	31.6	100
2021	76.3	45.0	9.1	21.3	0.9	0.0	32.1	100
2022	73.2	43.4	8.8	20.1	0.9	0.0	34.6	100
2023	72.9	43.7	8.8	19.5	0.9	0.0	37.6	100



NB: (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

(***) Total transport share in total emissions.

3.2.15

Oil spills at sea

NUMBER OF OIL SPILLS, TOTAL AMOUNT SPILT

PERIOD		Number of 7 to 700 tonnes	Number of over 700 tonnes	Tonnes of oil spilt
2024		4	6	10 000
2023		9	1	2 000
2022		4	3	15 000
2021		5	1	10 000
2020		4	0	1 000
2015		6	2	7 000
2010		5	4	12 000
2005		22	3	15 000
2000		21	4	14 000
1990-1999	average	28.1	7.7	113 400
1980-1989	per	36.0	9.4	117 500
1970-1979	year	54.3	24.5	319 500

SELECTED MAJOR OIL SPILLS – World outside Europe

SHIP NAME	Year	Location	Oil lost (t)
Atlantic Empress	1979	Off Tobago, West Indies	287 000
ABT Summer	1991	900 miles off Angola	260 000
Castillo de Bellver	1983	Off Saldanha Bay, South Africa	252 000
Odyssey	1988	700 miles off Nova Scotia, Canada	132 000
Sea Star	1972	Gulf of Oman	115 000
Sanchi	2018	Off Shanghai	113 000
Hawaiian Patriot	1977	300 miles off Honolulu	95 000
Khark 5	1989	Off Atlantic Coast of Morocco	70 000
Nova	1985	Off Kharg Island, Gulf of Iran	70 000
Katina P	1992	Off Maputo, Mozambique	67 000
Exxon Valdez	1989	Prince William Sound, Alaska	37 000
Hebei Spirit	2007	Taeon, Republic of Korea	11 000

SELECTED MAJOR OIL SPILLS – Europe

SHIP NAME	Year	Location	Oil lost (t)
Amoco Cadiz	1978	Off Brittany, France	223 000
Haven	1991	Genoa, Italy	144 000
Torrey Canyon	1967	Scilly Isles, United Kingdom	119 000
Irenes Serenade	1980	Navarino Bay, Greece	100 000
Urquiola	1976	La Coruna, Spain	100 000
Independenta	1979	Bosphorus, Turkey	95 000
Jakob Maersk	1975	Oporto, Portugal	88 000
Braer	1993	Shetland Islands, United Kingdom	85 000
Aegean Sea	1992	La Coruna, Spain	74 000
Sea Empress	1996	Milford Haven, United Kingdom	72 000
Prestige	2002	Cape Finistere, Spain	63 000
Erika	1999	Brittany, France	20 000

NOTES

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