



PRESS RELEASE

AIR EMISSION ACCOUNTS: years 2017-2018

The Hellenic Statistical Authority (ELSTAT) announces data on greenhouse gas emissions and other air emissions, for the period 2017-2018, which are collected from administrative sources.

This press release presents data on greenhouse gas and other air emissions, for each type of gas and for the total of gases, which are emitted as a result of the economic activity, as well as by households. The relevant data are presented by sections of the Statistical Classification of Economic Activities (NACE Rev.2) (Tables 1-10, Graphs 1-9).

The percentage contribution of greenhouse gas emissions to the main economic activity sectors of the Statistical Classification of Economic Activities (NACE Rev.2) and to households, by type of gas, is analyzed as follows:

Carbon dioxide (CO₂)

- The section of “Electricity, gas, steam and air conditioning supply” had the most important contribution to Carbon dioxide (CO₂) emissions, accounting for 46.2% of the total CO₂ emissions in 2018. The corresponding share in 2017 was 46.5% (Table 4, Graph 1).
- “Manufacturing” accounted for 18.4% of the total CO₂ emissions in 2018. In 2017, the corresponding share was 18.2% (Table 4, Graph 1).
- The section of “Transportation and storage” accounted for 11.7% of the total CO₂ emissions in 2018 and for 11.0% in 2017 (Table 4, Graph 1).
- The section of “Public administration and defense and compulsory social security” accounted for 2.5% of the total CO₂ emissions in 2018 and for 2.7% in 2017 (Table 4, Graph 1).
- Households had also a significant share of CO₂ emissions, accounting for 17.7% of the total CO₂ emissions in 2018. In 2017, the corresponding share was 17.9% (Table 4, Graph 1).

Nitrous oxide (N₂O)

- The “Agriculture, Forestry and Fishing” section had the most significant contribution to Nitrous Oxide (N₂O) emissions, accounting for 78.4% of the total N₂O emissions in 2018. In 2017, the corresponding share amounted to 78.8% (Table 6, Graph 3).
- The “Water, sewage treatment, waste management and remediation activities” section accounted for 7.2% of the total N₂O in 2018. In 2017, the respective share amounted to 7.1% (Table 6, Graph 3).
- “Manufacturing” accounted for 4.2% of the total N₂O emissions in 2018 and for 4.4% in 2017 (Table 6, Graph 3).

Information on methodological issues:

Agriculture, Livestock, Fisheries and Environmental
Statistics Division
Energy & Environment Statistics Section
Konstantinos Papandreou
Tel: +30 213 135 2057
E-mail: k.papandreou@statistics.gr

Information for data provision:

Tel: 213 135 2022, 2308, 2310
e-mail: data.dissem@statistics.gr

- The “Transportation and storage” section accounted for 4.0% of the total N₂O emissions in 2018. In 2017, the respective share amounted to 3.5% (Table 6, Graph 3).
- The participation of Households to N₂O emissions accounted for 2.6% of the total N₂O emissions in 2018 and for 2.5% in 2017 (Table 6, Graph 3).

Methane (CH₄)

- The “Agriculture, Forestry and Fishing” section had the largest share of Methane (CH₄) emissions, accounting for 43.9% of the total CH₄ emissions in 2018. In 2017, the respective share was 44.5% (Table 8, Graph 5).
- The “Water, sewage treatment, waste management and remediation activities” had also a significant share to CH₄ emissions, amounting to 43.9% of the total CH₄ emissions in 2018. In 2017, the corresponding share amounted to 42.9% (Table 8, Graph 5).
- The “Public Administration and Defense and Compulsory Social Security” accounted for 1.9% of the total CH₄ emissions in 2018 and for 2.2% in 2017 (Table 8, Graph 5).
- The participation of Households to CH₄ emissions amounted to 2.5% of the total CH₄ emissions in 2018. In 2017, the corresponding share amounted to 1.5% (Table 8, Graph 5).

Hydrofluorocarbons (HFCs)

Hydrofluorocarbons (HFCs) emissions come exclusively from the sections of “Manufacturing”, “Construction” and “Human health and social work activities” sectors as follows:

- The “Manufacturing” had the most significant share of HFCs emissions, accounting for 95.9% of total HFCs emissions in 2018. In 2017, the respective share was 96.1% (Table 10, Graph 7).
- The “Construction” section accounted for 3.3% of the total HFCs emissions in 2018. In 2017, the respective share was 3.2% (Table 10, Graph 7).
- The section of “Human health and social work activities” accounted for 0.8% of the total HFCs emissions in 2018. In 2017, the respective share was 0.7% (Table 10, Graph 7).

Perfluorocarbons (PFCs)

The emissions of Perfluorocarbons (PFCs) come exclusively from the Manufacturing sector. In 2018, the total emissions of Perfluorocarbons amounted to 135,313.1 tonnes and in 2017 to 125,793.8 tonnes (Graph 8).

Sulphur hexafluoride (SF₆)

Sulfur hexafluoride (SF₆) emissions come exclusively from the Energy sector. In 2018, the total emissions of sulfur hexafluoride amounted to 4,942.7 tonnes and in 2017 to 5,011.1 tonnes (Graph 9).

Table 1: Greenhouse gas emissions, 2008-2018*

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Carbon Dioxide (CO ₂) <i>In 1,000 tonnes</i>	111,125	104,355	97,362	94,550	91,430	81,735	78,660	74,958	71,368	74,853	71,798
Carbon Dioxide (CO ₂) from combustion of biomass <i>In 1,000 tonnes</i>	4,273	3,944	4,190	5,142	5,708	4,710	4,757	5,202	4,546	4,741	4,678
Nitrous oxide (N ₂ O) <i>In tonnes</i>	18,969	17,757	18,421	17,602	16,166	15,160	14,466	14,256	14,436	14,648	14,379
Methane (CH ₄) <i>In tonnes</i>	449,192	434,468	442,727	437,426	430,908	421,316	412,951	406,066	392,198	402,369	403,643
Hydrofluorocarbons (HFCs) <i>In tonnes of CO₂ equivalent</i>	3,712,346	4,036,015	4,467,764	4,747,224	5,153,931	5,741,476	5,842,951	5,999,844	6,223,862	6,177,933	5,907,582
Perfluorocarbons (PFCs) <i>In tonnes of CO₂ equivalent</i>	118,952	91,345	129,438	110,526	147,771	172,562	134,634	119,192	135,168	125,794	135,313
Sulphur hexafluorides (SF ₆) <i>In tonnes of CO₂ equivalent</i>	7,182	5,016	5,860	5,130	5,049	5,151	4,922	5,060	5,202	5,011	4,943

*Provisional data

Table 2: Air emissions of other gases, 2008-2018*

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Nitrogen oxides (NO _x) <i>In tonnes</i>	448,778	428,086	357,390	319,766	279,266	267,420	263,183	256,860	256,121	261,545	254,528
Sulphur oxides (SO _x) <i>In tonnes SO₂ equivalent</i>	423,308	352,392	205,101	146,383	120,083	105,888	89,350	83,849	60,697	69,324	64,584
Ammonia (NH ₃) <i>In tonnes</i>	71,995	67,477	72,971	72,071	69,923	69,645	66,503	65,218	64,771	63,859	62,964
Non-Methane volatile organic compounds <i>In tonnes</i>	265,294	254,910	220,424	205,258	197,852	180,367	176,567	169,495	160,910	157,118	150,089
Carbon monoxide <i>In tonnes</i>	686,524	620,407	541,037	522,877	566,091	476,961	484,450	463,072	406,609	417,940	396,226

*Provisional data

Table 3: Distribution of carbon dioxide (CO₂) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households, 2008-2018*
In thousand tonnes

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	2,517	1,992	1,721	1,774	923	519	498	528	462	496	496
Mining and quarrying	747	402	455	395	403	205	388	375	383	357	317
Manufacturing	15,078	12,405	12,504	9,858	10,674	12,880	13,421	12,671	13,067	13,602	13,189
Electricity, gas, steam and air conditioning supply	53,883	50,681	48,319	50,460	50,902	44,100	40,446	35,493	31,311	34,838	33,174
Water supply, sewerage, waste management and remediation activities	5	5	4	4	2	2	2	3	3	4	4
Construction	778	710	697	679	655	150	211	287	295	267	237
Wholesale and retail trade; repair of motor vehicles and motorcycles	445	366	340	166	34	29	22	23	24	22	19
Transportation and storage	8,538	10,069	8,737	7,636	6,865	5,217	5,666	6,616	6,777	8,223	8,411
Accommodation and food service activities	1,183	989	698	506	521	287	341	375	384	347	308
Information and communication	44	36	33	31	33	26	28	26	27	27	24
Financial and insurance activities	110	115	117	105	113	74	52	53	54	49	43
Real estate activities	5	4	4	4	5	5	5	5	5	5	4
Professional, scientific and technical activities	228	219	217	200	217	149	180	154	158	143	127
Administrative and support service activities	105	100	99	105	111	74	57	54	55	50	45
Public administration and defence; compulsory social security	3,057	2,026	1,396	718	1,392	1,715	1,702	1,951	2,159	1,990	1,768
Education	1,093	812	825	720	845	905	604	488	499	451	401
Human health and social work activities	1,066	893	858	791	848	607	498	449	457	413	367
Arts, entertainment and recreation	154	146	143	142	146	97	82	83	85	77	68
Other service activities	122	93	85	83	79	47	45	53	54	48	43
Activities of households as employers	55	52	51	49	48	28	26	30	30	27	24
Activities of extraterritorial organisations and bodies	0	0	0	0	0	0	0	0	0	0	0
Total emissions of NACE Rev.2 sections	89,214	82,116	77,303	74,426	74,816	67,117	64,274	59,719	56,288	61,437	59,069
Households	21,912	22,239	20,058	20,124	16,614	14,618	14,385	15,239	15,080	13,416	12,729
Grand Total emissions	111,125	104,355	97,362	94,550	91,430	81,735	78,660	74,958	71,368	74,853	71,798

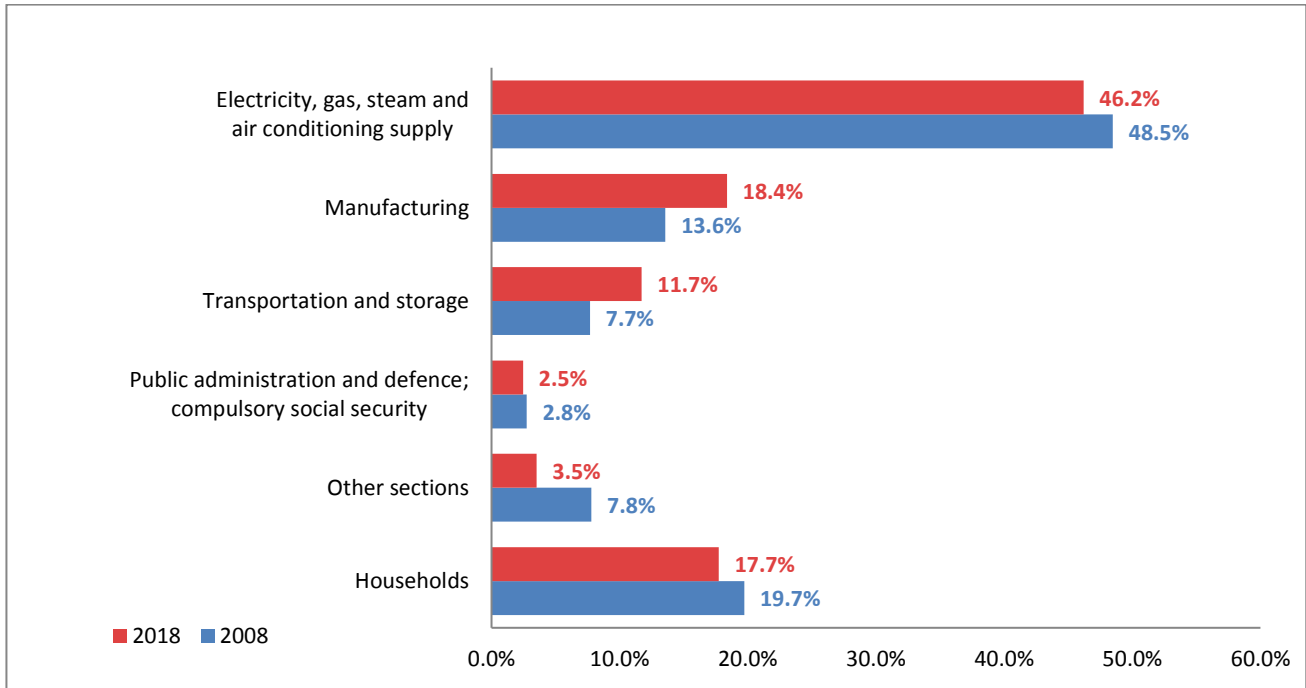
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Table 4: Percentage distribution of carbon dioxide (CO₂) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2018*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	2.3	1.9	1.8	1.9	1.0	0.6	0.6	0.7	0.6	0.7	0.7
Mining and quarrying	0.7	0.4	0.5	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.4
Manufacturing	13.6	11.9	12.8	10.4	11.7	15.8	17.1	16.9	18.3	18.2	18.4
Electricity, gas, steam and air conditioning supply	48.5	48.6	49.6	53.4	55.7	54.0	51.4	47.4	43.9	46.5	46.2
Water supply, sewerage, waste management and remediation activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Construction	0.7	0.7	0.7	0.7	0.7	0.2	0.3	0.4	0.4	0.4	0.3
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.4	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation and storage	7.7	9.6	9.0	8.1	7.5	6.4	7.2	8.8	9.5	11.0	11.7
Accommodation and food service activities	1.1	0.9	0.7	0.5	0.6	0.4	0.4	0.5	0.5	0.5	0.4
Information and communication	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial and insurance activities	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Professional, scientific and technical activities ^c	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Administrative and support service activities	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Public administration and defence; compulsory social security	2.8	1.9	1.4	0.8	1.5	2.1	2.2	2.6	3.0	2.7	2.5
Education	1.0	0.8	0.8	0.8	0.9	1.1	0.8	0.7	0.7	0.6	0.6
Human health and social work activities	1.0	0.9	0.9	0.8	0.9	0.7	0.6	0.6	0.6	0.6	0.5
Arts, entertainment and recreation	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Other service activities	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Activities of households as employers	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Activities of extraterritorial organisations and bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total emissions of NACE Rev. 2 sections	80.3	78.7	79.4	78.7	81.8	82.1	81.7	79.7	78.9	82.1	82.3
Households	19.7	21.3	20.6	21.3	18.2	17.9	18.3	20.3	21.1	17.9	17.7
Grand Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

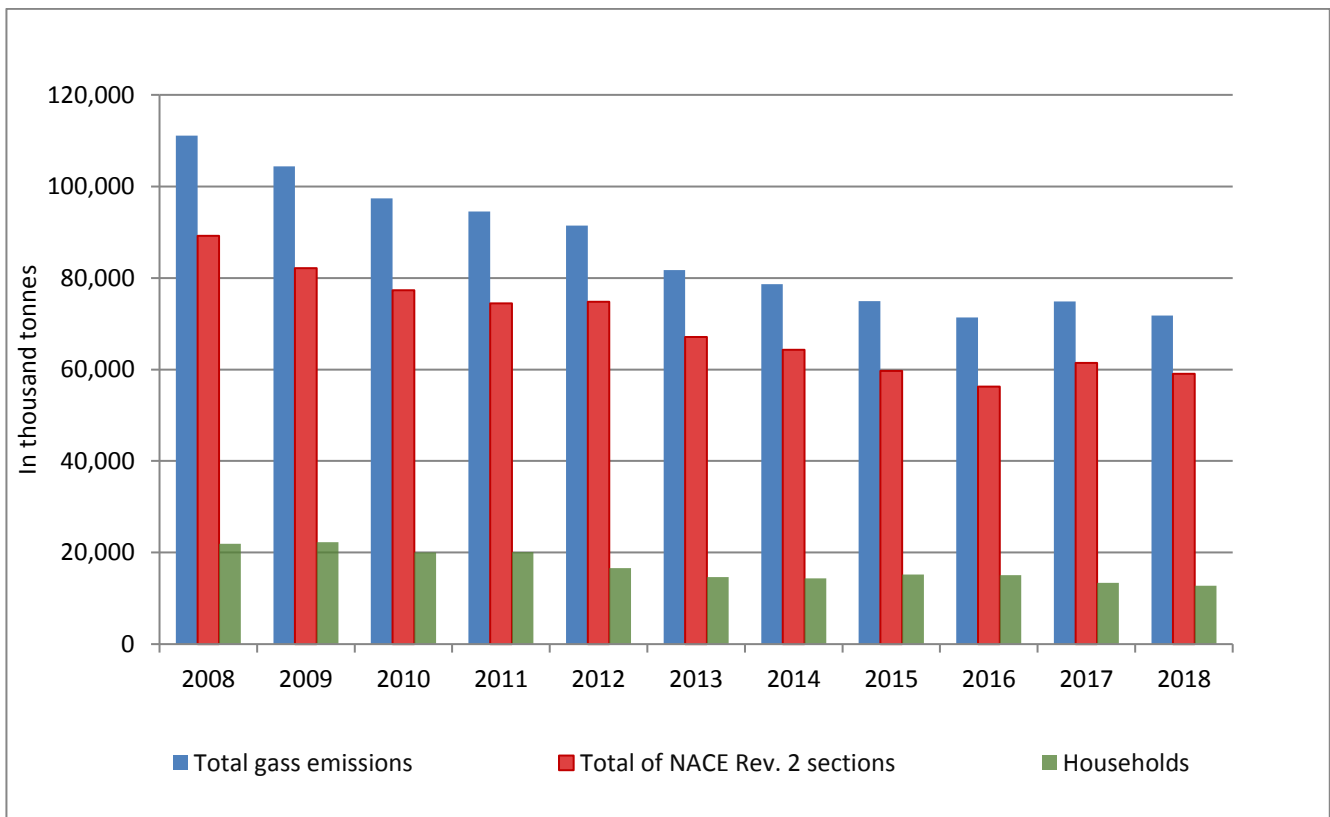
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Graph 1: Percentage distribution of carbon dioxide (CO₂) emissions by main sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households 2008* and 2018*



*Provisional data

Graph 2: Carbon dioxide (CO₂) emissions, as a total, in the economic activity sectors and in households, 2008-2018*



*Provisional data

Table 5: Distribution of nitrous oxide (N₂O) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2018*, in tonnes.

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	13,567.4	12,740.9	13,434.6	12,739.9	11,943.4	12,028.2	11,267.0	11,046.1	11,309.9	11,548.8	11,275.9
Mining and quarrying	27.5	20.2	23.7	21.8	16.3	14.4	10.3	9.8	8.8	7.7	7.0
Manufacturing	2,128.9	1,919.6	2,076.0	2,160.9	1,603.7	679.3	712.6	723.5	671.6	645.4	609.3
Electricity, gas, steam and air conditioning supply	572.2	552.9	517.3	525.9	536.0	474.4	446.9	390.2	311.7	350.0	333.2
Water supply, sewerage, waste management and remediation activities	1,067.1	1,066.7	1,082.1	1,070.3	1,065.1	1,074.6	1,074.3	1,070.4	1,083.2	1,036.8	1,034.0
Construction	14.7	4.3	2.5	3.2	4.1	4.9	6.4	8.8	8.8	7.7	7.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	7.5	5.1	4.8	4.2	3.7	2.7	3.0	3.0	3.3	2.8	2.6
Transportation and storage	874.1	800.9	714.5	581.2	477.3	439.5	480.8	531.4	575.7	514.3	582.3
Accommodation and food service activities	89.6	101.4	84.2	114.1	177.8	140.4	168.5	146.1	127.9	118.4	108.6
Information and communication	3.7	3.4	3.4	3.5	4.1	3.4	3.9	5.3	5.9	5.2	4.7
Financial and insurance activities	4.3	4.0	3.9	4.0	3.8	3.9	4.2	4.9	5.0	4.4	4.0
Real estate activities	0.0	1.0	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Professional, scientific and technical activities	1.8	2.2	1.9	2.3	2.6	2.2	2.9	3.2	3.3	2.9	2.6
Administrative and support service activities	2.5	2.7	2.3	2.4	5.0	4.1	4.9	4.8	5.0	4.3	4.0
Public administration and defence; compulsory social security	19.5	13.5	10.8	10.6	8.3	8.2	8.2	12.4	13.0	11.3	10.4
Education	9.7	7.1	5.6	5.2	4.2	4.1	4.2	6.4	6.5	5.7	5.2
Human health and social work activities	10.0	8.1	6.2	5.4	5.4	5.3	5.0	6.3	6.6	5.8	5.3
Arts, entertainment and recreation	0.5	3.2	1.8	1.9	1.9	1.8	2.1	2.2	2.3	2.0	1.9
Other service activities	12.6	10.1	7.9	7.4	6.2	8.0	9.5	8.8	8.8	7.7	7.1
Activities of households as employers	2.9	1.5	1.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Activities of extraterritorial organisations and bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total emissions of NACE Rev.2 sections	18,416.5	17,268.7	17,985.2	17,264.7	15,869.3	14,900.0	14,215.3	13,984.0	14,157.9	14,281.7	14,005.7
Households	552.2	487.8	436.1	337.4	296.4	260.4	250.7	271.6	278.1	365.9	373.1
Grand Total emissions	18,968.7	17,756.5	18,421.3	17,602.1	16,165.7	15,160.4	14,466.0	14,255.6	14,436.0	14,647.7	14,378.8

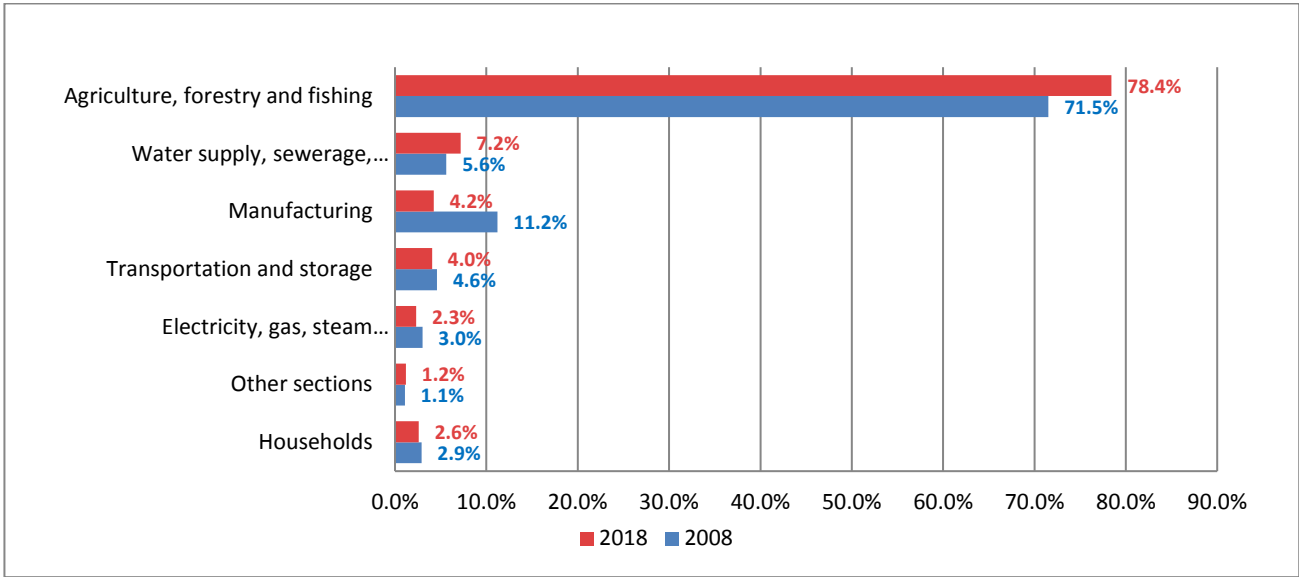
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Table 6: Percentage distribution of nitrous oxide (N₂O) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2018*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	71.5	71.8	72.9	72.4	73.9	79.3	77.9	77.5	78.3	78.8	78.4
Mining and quarrying	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Manufacturing	11.2	10.8	11.3	12.3	9.9	4.5	4.9	5.1	4.7	4.4	4.2
Electricity, gas, steam and air conditioning supply	3.0	3.1	2.8	3.0	3.3	3.1	3.1	2.7	2.2	2.4	2.3
Water supply, sewerage, waste management and remediation activities	5.6	6.0	5.9	6.1	6.6	7.1	7.4	7.5	7.5	7.1	7.2
Construction	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation and storage	4.6	4.5	3.9	3.3	3.0	2.9	3.3	3.7	4.0	3.5	4.0
Accommodation and food service activities	0.5	0.6	0.5	0.6	1.1	0.9	1.2	1.0	0.9	0.8	0.8
Information and communication	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial and insurance activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Professional, scientific and technical activities ^c	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Administrative and support service activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Public administration and defence; compulsory social security	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Education	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Human health and social work activities	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Arts, entertainment and recreation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other service activities	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
Activities of households as employers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Activities of extraterritorial organisations and bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total emissions of NACE Rev.2 sections	97.1	97.3	97.6	98.1	98.2	98.3	98.3	98.1	98.1	97.5	97.4
Households	2.9	2.7	2.4	1.9	1.8	1.7	1.7	1.9	1.9	2.5	2.6
Grand Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

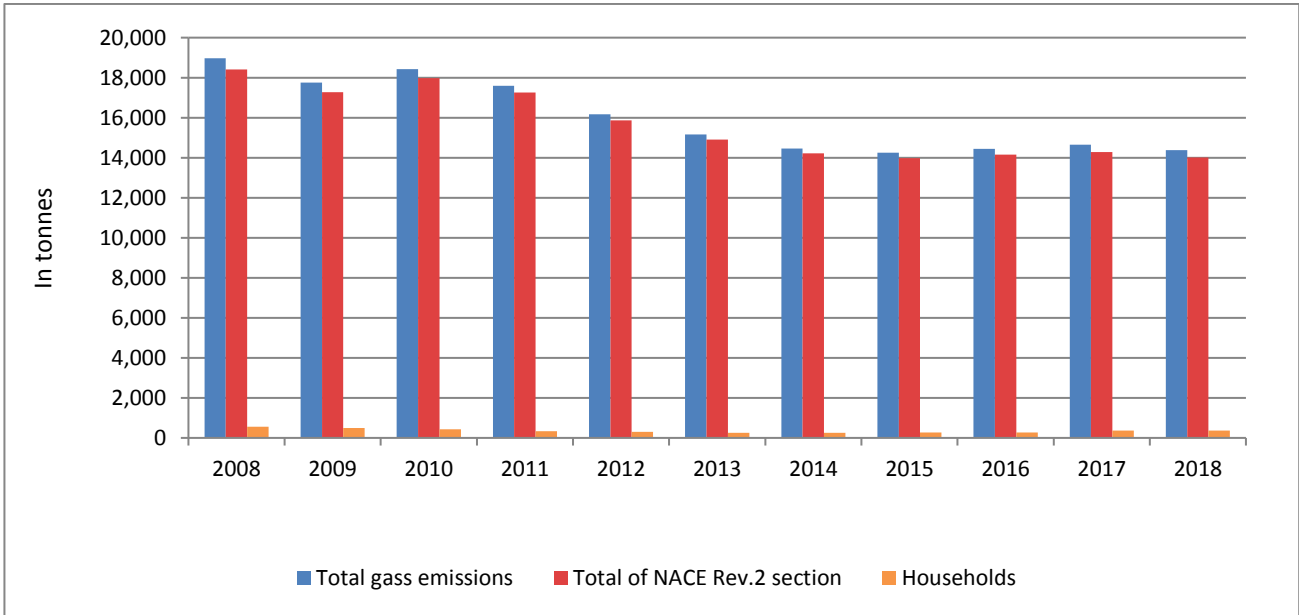
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Graph 3: Percentage distribution of nitrous oxide (N₂O) emissions by main sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households, 2008* and 2018*



*Provisional data

Graph 4: Nitrous oxide (N₂O) emissions, as a total, in the economic activity sectors and in households, 2008-2018*



*Provisional data

Table 7: Distribution of Methane (CH₄) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2018*
In tonnes

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	196,676	195,745	199,244	198,486	196,429	192,597	185,277	182,197	179,286	179,095	177,095
Mining and quarrying	1,845	1,075	811	805	806	830	828	810	752	942	818
Manufacturing	7,106	6,878	6,000	5,658	5,400	5,474	5,256	4,180	4,275	5,309	4,639
Electricity, gas, steam and air conditioning supply	718	624	564	589	581	513	472	438	422	475	454
Water supply, sewerage, waste management and remediation activities	180,052	168,557	179,650	170,982	162,349	166,620	169,248	168,952	170,040	172,420	177,368
Construction	552	477	458	446	359	259	251	231	241	302	262
Wholesale and retail trade; repair of motor vehicles and motorcycles	18	16	15	16	19	13	13	11	11	14	12
Transportation and storage	1,391	1,395	1,429	1,220	955	1,041	1,030	1,059	978	1,207	1,241
Accommodation and food service activities	11,803	10,786	9,441	12,333	14,430	12,380	12,230	10,285	8,331	8,941	7,769
Information and communication	2,069	1,875	1,687	2,034	2,020	1,683	1,697	1,654	920	1,152	1,001
Financial and insurance activities	2,758	2,500	1,890	2,711	2,749	1,898	1,768	1,669	1,297	1,623	1,410
Real estate activities	105	95	110	103	94	95	79	71	70	88	76
Professional, scientific and technical activities	5,397	5,485	4,763	4,462	5,278	4,091	3,861	2,709	2,090	2,617	2,274
Administrative and support service activities	2,638	2,577	2,759	3,175	3,620	2,537	2,112	1,589	906	1,134	985
Public administration and defence; compulsory social security	11,192	10,126	9,514	9,009	8,936	8,511	8,219	8,458	6,422	8,040	6,986
Education	7,015	7,010	6,012	6,250	7,337	6,225	6,410	6,125	4,510	5,647	4,906
Human health and social work activities	6,721	6,434	5,564	5,356	5,915	4,410	3,825	4,477	2,804	3,511	3,050
Arts, entertainment and recreation	1,247	1,477	1,332	1,225	1,385	1,231	1,123	897	589	737	640
Other service activities	2,379	4,069	3,014	3,330	3,310	3,159	2,385	2,813	1,695	2,122	1,844
Activities of households as employers	1,008	1,008	1,023	1,901	1,905	1,293	1,037	1,026	754	944	820
Activities of extraterritorial organisations and bodies	0	0	0	0	0	0	0	0	0	0	0
Total of emissions of NACE Rev.2 sections	442,689	428,207	435,281	430,090	423,878	414,861	407,120	399,650	386,394	396,319	393,650
Households	6,503	6,261	7,446	7,337	7,031	6,454	5,832	6,417	5,804	6,050	9,993
Grand Total emissions	449,192	434,468	442,727	437,426	430,908	421,315	412,952	406,066	392,198	402,369	403,643

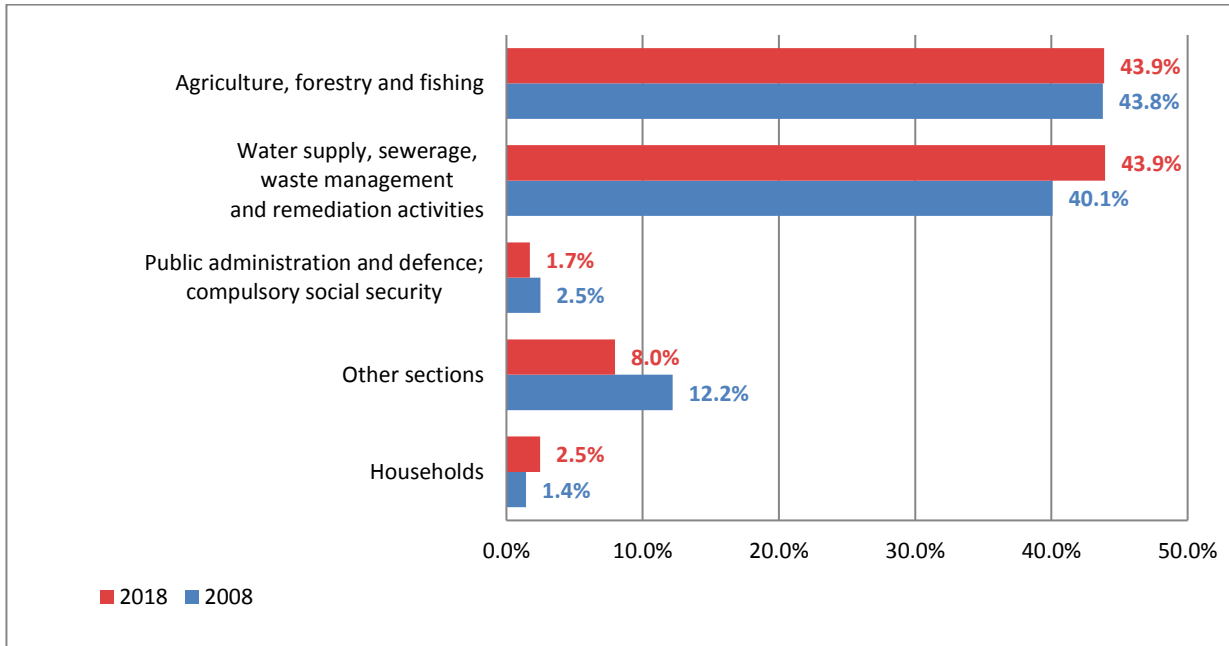
**Provisional data*

Table 8: Percentage distribution of methane (CH₄) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2018*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	43.8	45.1	45.0	45.4	45.6	45.7	44.9	44.9	45.7	44.5	43.9
Mining and quarrying	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Manufacturing	1.6	1.6	1.4	1.3	1.3	1.3	1.3	1.0	1.1	1.3	1.1
Electricity, gas, steam and air conditioning supply	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Water supply, sewerage, waste management and remediation activities	40.1	38.8	40.6	39.1	37.7	39.5	41.0	41.6	43.4	42.9	43.9
Construction	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transportation and storage	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3
Accommodation and food service activities	2.6	2.5	2.1	2.8	3.3	2.9	3.0	2.5	2.1	2.2	1.9
Information and communication	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.2	0.3	0.2
Financial and insurance activities	0.6	0.6	0.4	0.6	0.6	0.5	0.4	0.4	0.3	0.4	0.3
Real estate activities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Professional, scientific and technical activities ^c	1.2	1.3	1.1	1.0	1.2	1.0	0.9	0.7	0.5	0.7	0.6
Administrative and support service activities	0.6	0.6	0.6	0.7	0.8	0.6	0.5	0.4	0.2	0.3	0.2
Public administration and defence; compulsory social security	2.5	2.3	2.1	2.1	2.1	2.0	2.0	2.1	1.6	2.0	1.7
Education	1.6	1.6	1.4	1.4	1.7	1.5	1.6	1.5	1.2	1.4	1.2
Human health and social work activities	1.5	1.5	1.3	1.2	1.4	1.0	0.9	1.1	0.7	0.9	0.8
Arts, entertainment and recreation	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
Other service activities	0.5	0.9	0.7	0.8	0.8	0.7	0.6	0.7	0.4	0.5	0.5
Activities of households as employers	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2
Activities of extraterritorial organisations and bodies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total emissions of NACE Rev.2 sections	98.6	98.6	98.3	98.3	98.4	98.5	98.6	98.4	98.5	98.5	97.5
Households	1.4	1.4	1.7	1.7	1.6	1.5	1.4	1.6	1.5	1.5	2.5
Grand Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

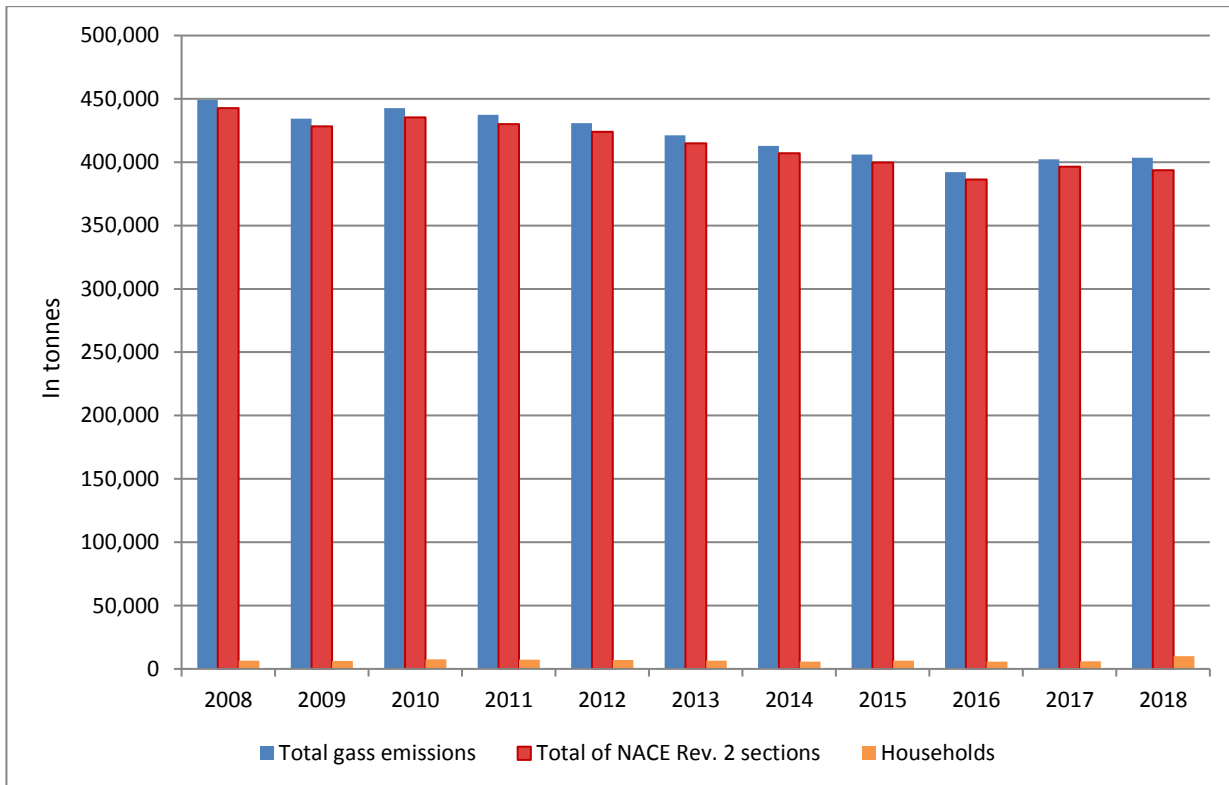
*Provisional data

Graph 5: Percentage distribution of methane (CH₄) emissions by main sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households 2008* and 2018*



*Provisional data

Graph 6: Methane (CH₄) emissions, as a total, in the economic activity sectors and in households, 2008-2018*



*Provisional data

Table 9: Hydrofluorocarbons (HFCs) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2), in tonnes of CO₂ equivalent, 2008-2018*

Economic Activities (NACE Rev. 2) Sections	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Manufacturing	3,443,381	3,809,143	4,238,810	4,535,979	4,937,134	5,505,502	5,607,711	5,762,224	5,984,650	5,938,900	5,938,900
Construction	152,683	155,573	160,270	162,675	168,569	191,442	189,726	192,146	193,419	195,059	195,059
Human health and social work activities	116,282	71,299	68,684	48,570	48,228	44,532	45,514	45,474	45,793	45,360	45,360
Total emissions	3,712,346	4,036,015	4,467,764	4,747,224	5,153,931	5,741,476	5,842,951	5,999,844	6,223,862	6,179,319	6,179,319

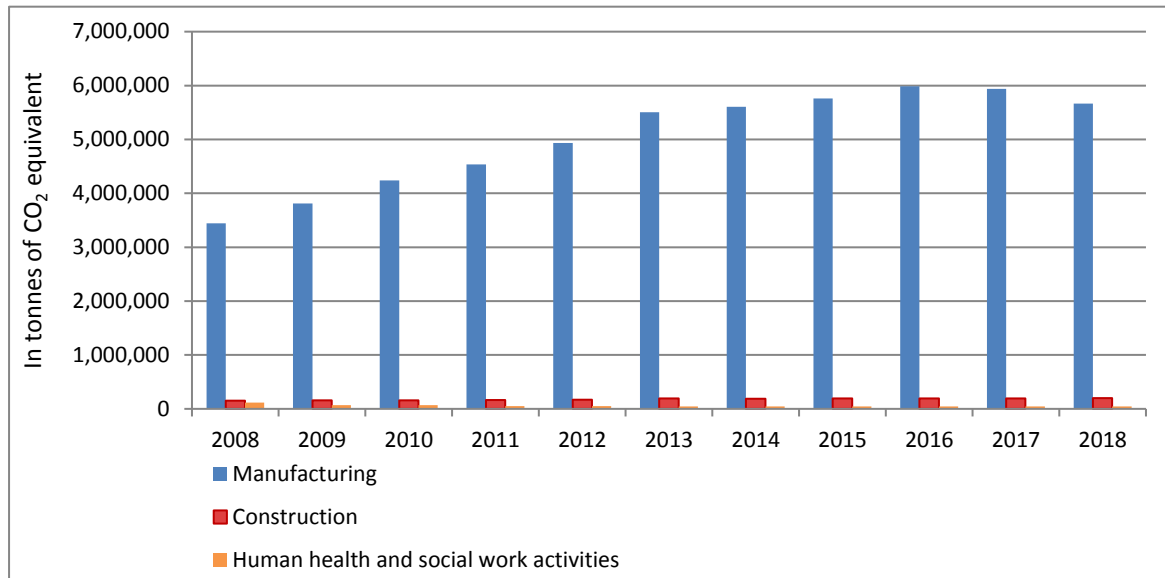
*Provisional data

Table 10: Percentage distribution of hydrofluorocarbons (HFCs) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2), 2008-2018*

Economic Activities (NACE Rev. 2) Sections	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Manufacturing	92.8	94.4	94.9	95.6	95.8	95.9	96.0	96.0	96.2	96.1	95.9
Construction	4.1	3.9	3.6	3.4	3.3	3.3	3.2	3.2	3.1	3.2	3.3
Human health and social work activities	3.1	1.8	1.5	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.8
Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

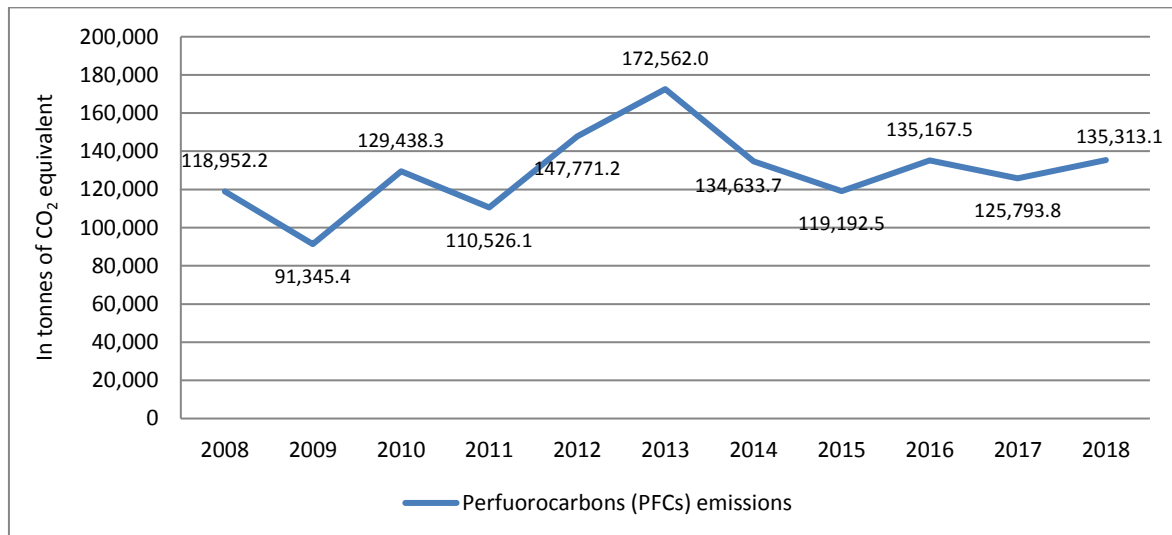
*Provisional data

Graph 7: Distribution of hydrofluorocarbons (HFCs) emissions by section of the Statistical Classification of Economic Activities (NACE Rev. 2), 2008-2018*



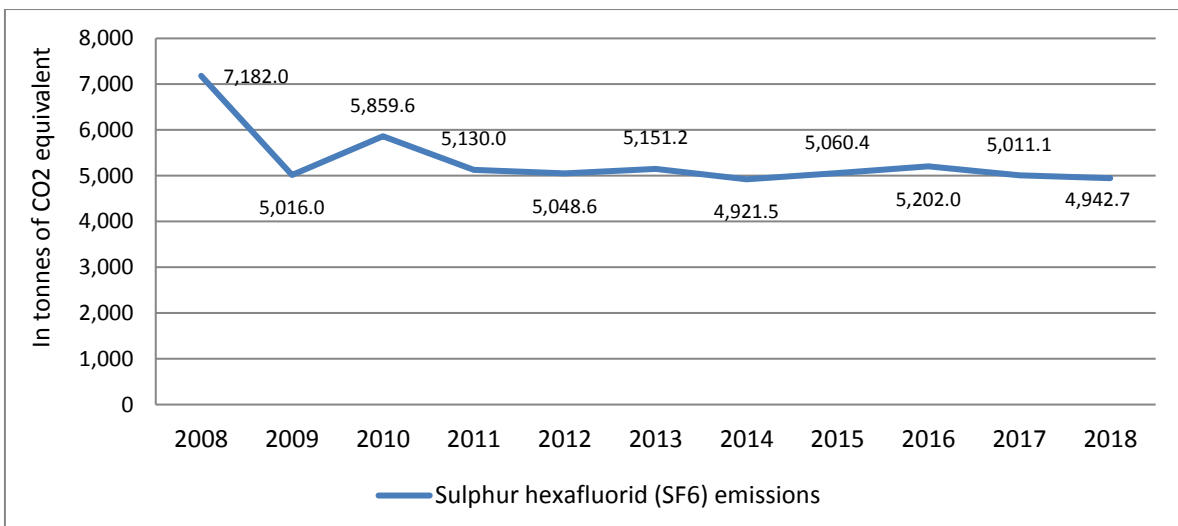
*Provisional data

Graph 8: Perfluorocarbons (PFCs) emissions in Manufacturing, in tonnes of CO₂ equivalents, 2008-2018*



*Provisional data

Graph 9: Sulphur hexafluoride (SF₆) emissions in Energy, in tonnes of CO₂ equivalents, 2008-2018*



*Provisional data

EXPLANATORY NOTES

- Legal framework:** The Air Emissions Accounts are compiled pursuant to Regulation 691/2011 of the European Parliament and of the Council (Section 1) which provides for and lays down the methodological frame for the compilation of Air Emissions Accounts.
- Methodology:** The main source of primary data on greenhouse gas and other air emissions is the Annual inventory submission of Greece under the convention and Kyoto protocol for greenhouse and other gases. This inventory is compiled and submitted by the Ministry of Environment and Energy, in the frame of the Kyoto protocol on greenhouse gases and other gases to UNFCCC and CLRTAP.
- Concepts and Definitions:** Air Emissions Accounts include the following gases categories:
1. Carbon dioxide (CO₂): Carbon dioxide (CO₂) is the most important among the greenhouse gases because it is emitted in larger quantities and by important sectors of the economy. The main source of carbon dioxide (CO₂) emissions is the use of coal substances for energy production.
 2. Methane (CH₄): Methane (CH₄) holds the second place as regards air emissions that impact on the increase of the world temperature, expressed in CO₂ equivalents. The impact of methane (CH₄) on climate change is approximately 25 times more powerful than Carbon dioxide (CO₂). The main sources of methane emissions are Agriculture, and mainly Livestock, and Waste management.
 3. Nitrous oxide (N₂O): Nitrous oxide holds the third place as regards air emissions that impact on the increase of the world temperature, expressed in CO₂ equivalents. The impact of N₂O on climate change is approximately 298 times more powerful than Carbon dioxide (CO₂). The main sources of nitrous oxide emissions are Agriculture (use of nitrates fertilizers) and Manufacturing.
 4. Hydrofluorocarbons (HFCs) and Perfluorocarbons (PFCs): They are in the fourth place as regards air emissions that impact on the increase of the world temperature, expressed in CO₂ equivalents. Their impact on climate change is approximately 5,020 times more powerful than Carbon dioxide (CO₂). The main source of these gases is Manufacturing and mainly the production of aluminum.
 5. Sulphur hexafluoride (SF₆): Sulphur hexafluoride (SF₆) holds the fifth place as regards air emissions that impact on the increase of the world temperature, expressed in CO₂ equivalents. The impact of sulphur hexafluoride on climate change is approximately 23,900 times more powerful than Carbon dioxide (CO₂). The main source of sulphur hexafluoride emissions is the activities related to electric energy transfer.
- References:** More information (Tables, questionnaires and methodology) on the survey on Air Emissions Accounts can be found on the website of ELSTAT (www.statistics.gr), at: <http://www.statistics.gr/el/statistics/-/publication/SOP08/>