



HELLENIC REPUBLIC
HELLENIC STATISTICAL AUTHORITY

Piraeus, 30 November 2020

PRESS RELEASE
AIR EMISSION ACCOUNTS: years 2016-2017

The Hellenic Statistical Authority (ELSTAT) announces data on greenhouse gas emissions and other air emissions, for the period 2016-2017, 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 46.6% of the total CO₂ emissions in 2017. The corresponding share in 2016 was 43.9% (Table 4, Graph 1).
- "Manufacturing" accounted for 18.2% of the total CO₂ emissions in 2017. In 2016, the corresponding share was 18.3% (Table 4, Graph 1).
- The section of "Transportation and storage" accounted for 11.0% of the total CO₂ emissions in 2017 and for 9.5% in 2016 (Table 4, Graph 1).
- The section of "Public administration and defense and compulsory social security" accounted for 2.7% of the total CO₂ emissions in 2017 and for 3.0% in 2016 (Table 4, Graph 1).
- Households had also a significant share of CO₂ emissions, accounting for 17.9% of the total CO₂ emissions in 2017. In 2016, the corresponding share was 21.1% (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 78.2% of the total N₂O emissions in 2017. In 2016, the corresponding share amounted to 78.4% (Table 6, Graph 3).
- The "Water, sewage treatment, waste management and remediation activities" section accounted for 7.5% of the total N₂O in 2017. In 2016, the respective share amounted to 7.9% (Table 6, Graph 3).
- "Manufacturing" accounted for 4.4% of the total N₂O emissions in 2017 and for 4.7% in 2016 (Table 6, Graph 3).
- The "Transportation and storage" section accounted for 4.0% of the total N₂O emissions in 2017, same as 2016 (Table 6, Graph 3).
- The participation of Households to N₂O emissions accounted for 2.5% of the total N₂O emissions in 2017 and for 1.9% in 2016 (Table 6, Graph 3).

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Methane (CH₄)

- The “Agriculture, Forestry and Fishing” section had the largest share of Methane (CH₄) emissions, accounting for 45.2% of the total CH₄ emissions in 2017. In 2016, the respective share was 46.4% (Table 8, Graph 5).
- The “Water, sewage treatment, waste management and remediation activities” had also a significant share to CH₄ emissions, amounting to 43.1% of the total CH₄ emissions in 2017. In 2016, the corresponding share amounted to 43.8% (Table 8, Graph 5).
- The “Public Administration and Defense and Compulsory Social Security” accounted for 2.0% of the total CH₄ emissions in 2017 and for 1.7% in 2016 (Table 8, Graph 5).
- The participation of Households to CH₄ emissions amounted to 1.5% of the total CH₄ emissions in 2017, same as 2016 (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 96.1% of total HFCs emissions in 2017. In 2016, the respective share was 96.2% (Table 10, Graph 7).
- The “Construction” section accounted for 3.2% of the total HFCs emissions in 2017. In 2016, the respective share was 3.1% (Table 10, Graph 7).
- The section of “Human health and social work activities” accounted for 0.7% of the total HFCs emissions in 2017, same as 2016 (Table 10, Graph 7).

Perfluorocarbons (PFCs)

The emissions of Perfluorocarbons (PFCs) come exclusively from the Manufacturing sector. In 2017, the total emissions of Perfluorocarbons amounted to 125,793.8 tonnes and in 2016 to 135,167.5 tonnes (Graph 8).

Sulphur hexafluoride (SF₆)

Sulfur hexafluoride (SF₆) emissions come exclusively from the Energy sector. In 2017, the total emissions of sulfur hexafluoride amounted to 5,011.1 tonnes and in 2016 to 5,202.0 tonnes (Graph 9).

Table 1: Greenhouse gas emissions, 2008-2017*

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Carbon Dioxide (CO ₂) <i>In 1,000 tonnes</i>	111,113	104,341	97,343	94,532	91,418	81,723	78,650	74,959	71,367	74,882
Carbon Dioxide (CO ₂) from combustion of biomass <i>In 1,000 tonnes</i>	2,741	2,741	3,241	3,453	3,425	2,739	2,682	3,159	2,824	3,090
Nitrous oxide (N ₂ O) <i>In tones</i>	18,936	17,734	18,420	17,594	16,148	15,149	14,450	14,241	14,433	14,601
Methane (CH ₄) <i>In tonnes</i>	444,905	431,099	440,048	432,653	424,388	415,611	406,984	400,128	386,601	396,593
Hydrofluorocarbonds (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	6,179,319
Perfluorocarbonds (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
Sulphur hexafluorids (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

*Provisonal data

Table 2: Air emissions of other gases, 2008-2017*

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Nitrogen oxides (NOx) <i>In tonnes</i>	456,468	440,139	364,953	327,106	287,338	273,451	269,359	264,410	264,212	269,965
Sulphur oxides (SOx) <i>In tonnes SO₂ equivalent</i>	423,151	352,269	205,004	146,210	119,849	105,686	89,138	83,640	60,520	69,158
Ammonia (NH ₃ -) <i>In tonnes</i>	72,454	68,406	74,605	73,714	70,955	70,887	68,024	65,599	64,434	63,622
Non-Methane volatile organic compounds <i>In tonnes</i>	257,534	249,106	218,679	200,221	190,832	173,754	168,969	162,343	154,983	152,098
Carbon monoxide <i>In tonnes</i>	629,473	575,612	521,899	477,987	504,207	418,025	417,410	397,229	352,424	367,019

*Provisonal data

Table 3: Distribution of carbon dioxide (CO₂) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households, 2008-2017*
In thousand tonnes

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, forestry and fishing	2,517	1,992	1,721	1,774	923	519	498	528	462	496
Mining and quarrying	747	402	455	395	403	205	388	375	383	346
Manufacturing	15,065	12,391	12,486	9,841	10,662	12,868	13,411	12,673	13,066	13,605
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	34,876
Water supply, sewerage, waste management and remediation activities	5	5	4	4	2	2	2	3	3	4
Construction	778	710	697	679	655	150	211	287	295	267
Wholesale and retail trade; repair of motor vehicles and motorcycles	445	366	340	166	34	29	22	23	24	22
Transportation and storage	8,538	10,069	8,737	7,636	6,865	5,217	5,666	6,616	6,777	8,224
Accommodation and food service activities	1,183	989	698	506	521	287	341	375	384	347
Information and communication	44	36	33	31	33	26	28	26	27	27
Financial and insurance activities	110	115	117	105	113	74	52	53	54	49
Real estate activities	5	4	4	4	5	5	5	5	5	5
Professional, scientific and technical activities	228	219	217	200	217	149	180	154	158	143
Administrative and support service activities	105	100	99	105	111	74	57	54	55	50
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
Education	1,093	812	825	720	845	905	604	488	499	451
Human health and social work activities	1,066	893	858	791	848	607	498	449	457	413
Arts, entertainment and recreation	154	146	143	142	146	97	82	83	85	77
Other service activities	122	93	85	83	79	47	45	53	54	48
Activities of households as employers	55	52	51	49	48	28	26	30	30	27
Activities of extraterritorial organisations and bodies	0	0	0	0	0	0	0	0	0	0
Total emissions of NACE Rev.2 sections	89,201	82,102	77,285	74,408	74,804	67,104	64,265	59,720	56,287	61,466
Households	21,912	22,239	20,058	20,124	16,614	14,618	14,385	15,239	15,080	13,416
Grand Total emissions	111,113	104,341	97,343	94,532	91,418	81,723	78,650	74,959	71,367	74,882

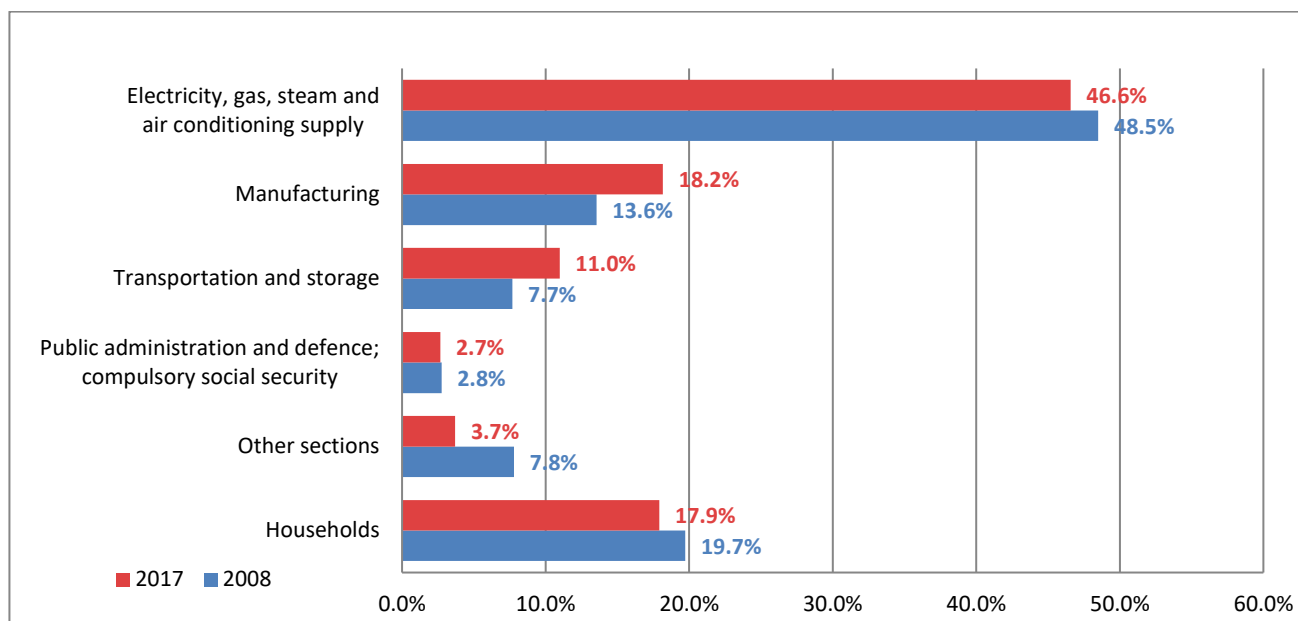
*Provisional data

Table 4: Percentage distribution of carbon dioxide (CO₂) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2017*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, forestry and fishing	2.3	1.9	1.8	1.9	1.0	0.6	0.6	0.7	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
Manufacturing	13.6	11.9	12.8	10.4	11.7	15.8	17.1	16.9	18.3	18.2
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	46.6
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
Construction	0.7	0.7	0.7	0.7	0.7	0.2	0.3	0.4	0.4	0.4
Wholesale and retail trade; repair of motor vehicles and motorcycles	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Transportation and storage	7.7	9.7	9.0	8.1	7.5	6.4	7.2	8.8	9.5	11.0
Accommodation and food service activities	1.1	1.0	0.7	0.5	0.6	0.4	0.4	0.50	0.5	0.5
Information and communication	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
Real estate activities	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	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
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
Education	1.0	0.8	0.9	0.8	0.9	1.1	0.8	0.7	0.7	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
Arts, entertainment and recreation	0.1	0.1	0.2	0.2	0.2	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
Activities of households as employers	0.1	0.1	0.1	0.1	0.1	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
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
Households	19.7	21.3	20.6	21.3	18.2	17.9	18.3	20.3	21.1	17.9
Grand Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

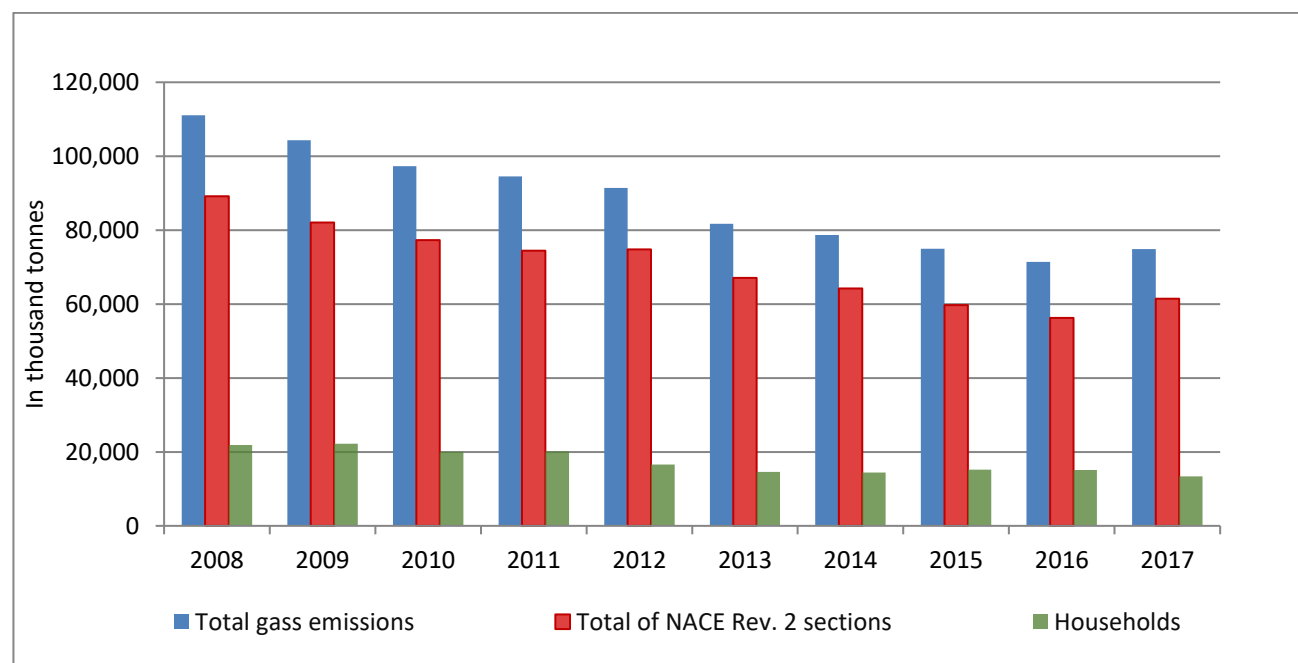
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Graph 1: Percentage distribution of carbon dioxide (CO₂) emissions by main sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households 2008* and 2017*



*Provisional data

Graph 2: Carbon dioxide (CO₂) emissions, as a total, in the economic activity sectors and in households, 2008-2017*



*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, 2008-2017*, in tonnes.

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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	11,423.8
Mining and quarrying	27.5	20.2	23.7	21.8	16.3	14.4	10.3	9.8	8.8	7.7
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
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
Water supply, sewerage, waste management and remediation activities	1,091.1	1,088.7	1,116.1	1,125.3	1,132.1	1,136.6	1,135.3	1,131.4	1,144.2	1,097.8
Construction	14.7	4.3	2.5	3.2	4.1	4.9	6.4	8.8	8.8	7.7
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
Transportation and storage	874.1	800.9	714.5	581.2	477.3	439.5	480.8	531.4	575.7	591.3
Accommodation and food service activities	32.6	56.4	49.2	51.1	92.8	67.4	91.5	70.1	63.9	58.4
Information and communication	3.7	3.4	3.4	3.5	4.1	3.4	3.9	5.3	5.9	5.2
Financial and insurance activities	4.3	4.0	3.9	4.0	3.8	3.9	4.2	4.9	5.0	4.4
Real estate activities	0.0	1.0	0.4	0.4	0.5	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
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
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
Education	9.7	7.1	5.6	5.2	4.2	4.1	4.2	6.4	6.5	5.7
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
Arts, entertainment and recreation	0.5	3.2	1.8	1.9	1.9	1.8	2.1	2.2	2.3	2.0
Other service activities	12.6	10.1	7.9	7.4	6.2	8.0	9.5	8.8	8.8	7.7
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
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
Total emissions of NACE Rev.2 sections	18,383.5	17,245.7	17,984.2	17,256.7	15,851.3	14,889.0	14,199.3	13,969.0	14,154.9	14,234.7
Households	552.2	487.8	436.1	337.4	296.4	260.4	250.7	271.6	278.1	365.9
Grand Total emissions	18,935.7	17,733.5	18,420.3	17,594.1	16,147.7	15,149.4	14,450.0	14,240.6	14,433.0	14,600.7

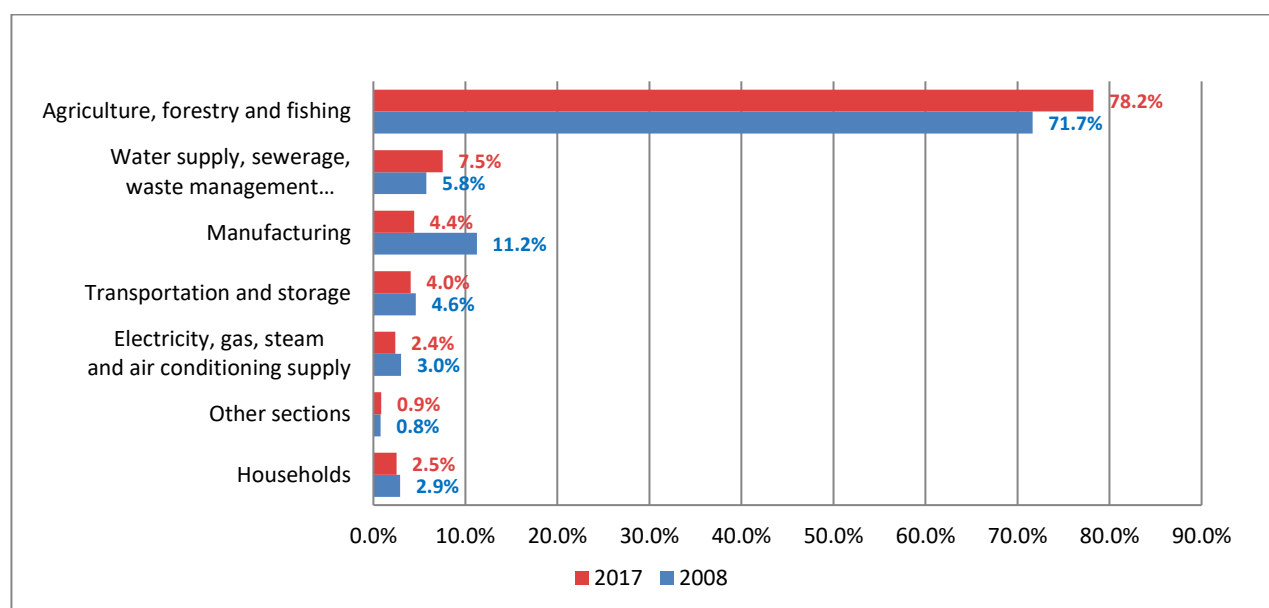
*Provisional data

Table 6: Percentage distribution of nitrous oxide (N₂O) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2017*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, forestry and fishing	71.7	71.8	72.9	72.4	74.0	79.4	78.0	77.6	78.4	78.2
Mining and quarrying	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Manufacturing	11.2	10.8	11.3	12.3	9.9	4.5	4.9	5.1	4.7	4.4
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
Water supply, sewerage, waste management and remediation activities	5.8	6.1	6.1	6.4	7.0	7.5	7.9	7.9	7.9	7.5
Construction	0.1	0.0	0.0	0.0	0.0	0.0	0.0	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
Transportation and storage	4.6	4.5	3.9	3.3	3.0	2.9	3.3	3.7	4.0	4.0
Accommodation and food service activities	0.2	0.3	0.3	0.3	0.6	0.4	0.6	0.5	0.4	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
Financial and insurance activities	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
Professional, scientific and technical activities	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
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
Education	0.1	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
Arts, entertainment and recreation	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
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
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
Total emissions of NACE Rev.2 sections	97.1	97.2	97.6	98.1	98.2	98.3	98.3	98.1	98.1	97.5
Households	2.9	2.8	2.4	1.9	1.8	1.7	1.7	1.9	1.9	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

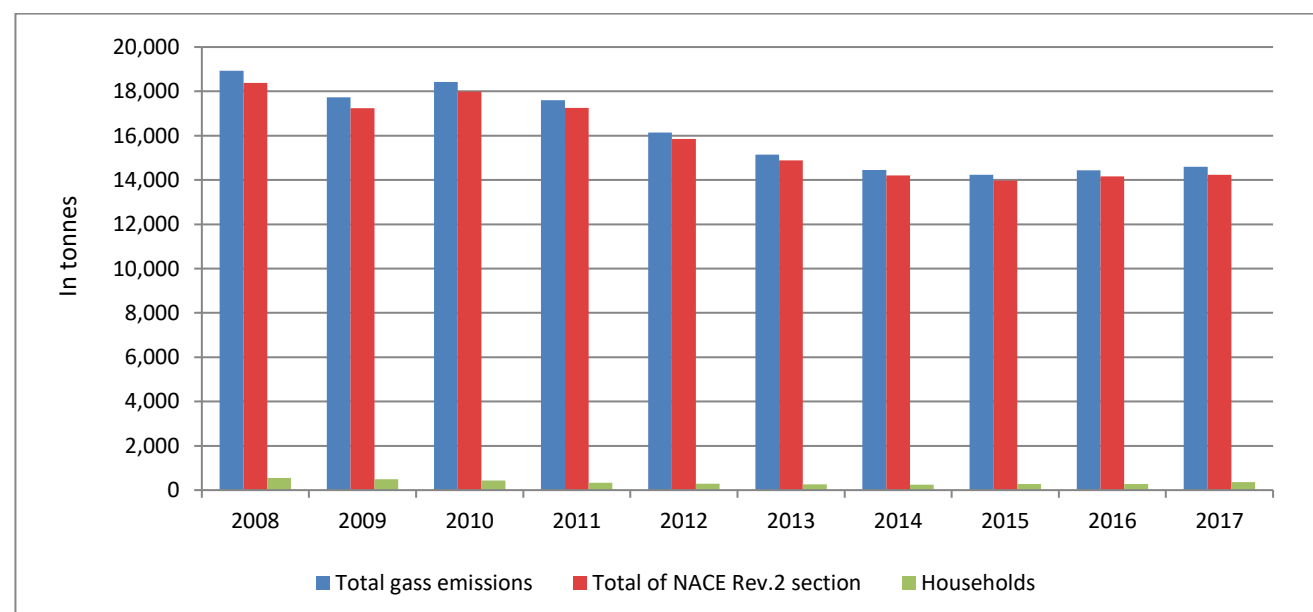
*Provisional data

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 2017*



*Provisional data

Graph 4: Nitrous oxide (N₂O) emissions, as a total, in the economic activity sectors and in households, 2008-2017*



*Provisional data

Table 7: Distribution of Methane (CH₄) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2017*
In tonnes

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, forestry and fishing	196,676	195,745	199,244	198,486	196,429	192,597	185,277	182,197	179,286	179,095
Mining and quarrying	1,845	1,075	811	805	806	830	828	810	752	942
Manufacturing	7,106	6,878	6,000	5,658	5,400	5,474	5,256	4,180	4,275	5,309
Electricity, gas, steam and air conditioning supply	718	624	564	589	581	513	472	438	422	475
Water supply, sewerage, waste management and remediation activities	180,044	168,548	179,623	170,925	162,206	166,420	169,074	168,719	169,250	171,076
Construction	552	477	458	446	359	259	251	231	241	302
Wholesale and retail trade; repair of motor vehicles and motorcycles	18	16	15	16	19	13	13	11	11	14
Transportation and storage	1,391	1,395	1,429	1,220	955	1,041	1,030	1,059	978	1,304
Accommodation and food service activities	7,524	7,426	6,789	7,617	8,053	6,876	6,436	4,580	3,524	4,412
Information and communication	2,069	1,875	1,687	2,034	2,020	1,683	1,697	1,654	920	1,152
Financial and insurance activities	2,758	2,500	1,890	2,711	2,749	1,898	1,768	1,669	1,297	1,623
Real estate activities	105	95	110	103	94	95	79	71	70	88
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
Administrative and support service activities	2,638	2,577	2,759	3,175	3,620	2,537	2,112	1,589	906	1,134
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
Education	7,015	7,010	6,012	6,250	7,337	6,225	6,410	6,125	4,510	5,647
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
Arts, entertainment and recreation	1,247	1,477	1,332	1,225	1,385	1,231	1,123	897	589	737
Other service activities	2,379	4,069	3,014	3,330	3,310	3,159	2,385	2,813	1,695	2,122
Activities of households as employers	1,008	1,008	1,023	1,901	1,905	1,293	1,037	1,026	754	944
Activities of extraterritorial organisations and bodies	0	0	0	0	0	0	0	0	0	0
Total of emissions of NACE Rev.2 sections	438,402	424,838	432,602	425,317	417,358	409,157	401,152	393,712	380,797	390,543
Households	6,503	6,261	7,446	7,337	7,031	6,454	5,832	6,417	5,804	6,050
Grand Total emissions	444,905	431,099	440,048	432,653	424,388	415,611	406,984	400,128	386,601	396,593

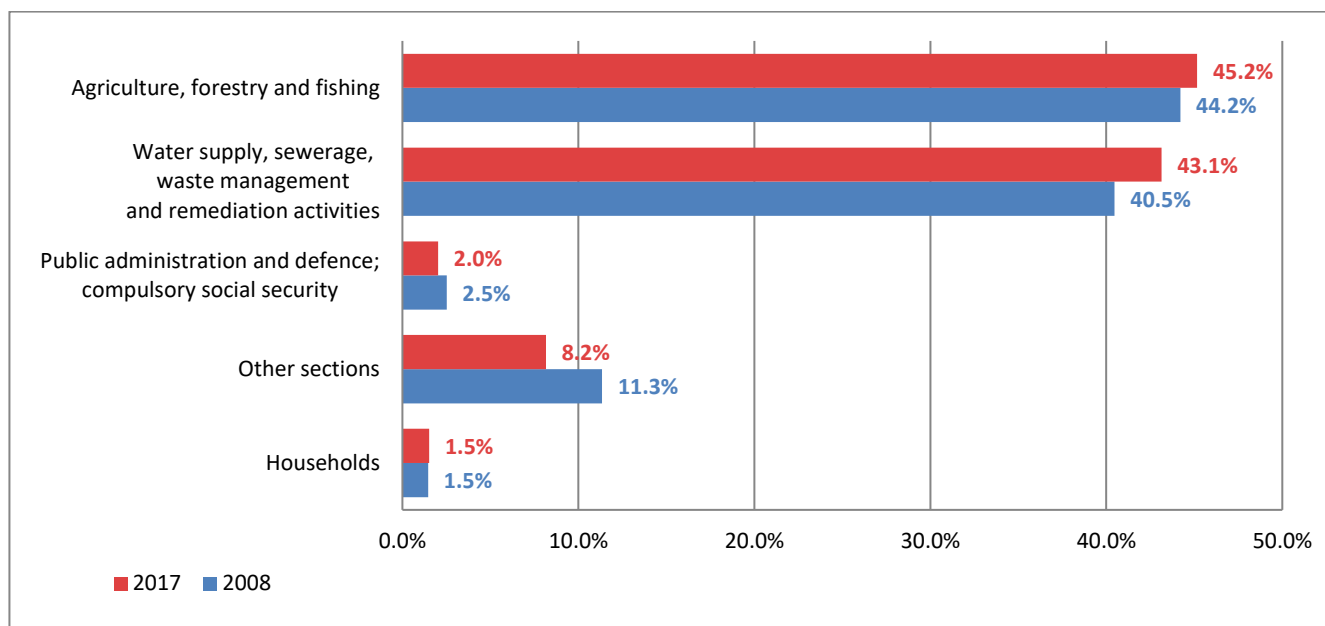
**Provisional data*

Table 8: Percentage distribution of methane (CH₄) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and in households, 2008-2017*

Economic Activities (NACE Rev. 2) Sections - Households	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, forestry and fishing	44.2	45.4	45.3	45.9	46.3	46.3	45.5	45.5	46.4	45.2
Mining and quarrying	0.4	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
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
Water supply, sewerage, waste management and remediation activities	40.5	39.1	40.8	39.5	38.2	40.0	41.5	42.2	43.8	43.1
Construction	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
Transportation and storage	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3
Accommodation and food service activities	1.7	1.7	1.5	1.8	1.9	1.7	1.6	1.1	0.9	1.1
Information and communication	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.2	0.3
Financial and insurance activities	0.6	0.6	0.4	0.6	0.6	0.5	0.4	0.4	0.3	0.4
Real estate activities	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	1.2	1.3	1.1	1.0	1.2	1.0	0.9	0.7	0.5	0.7
Administrative and support service activities	0.6	0.6	0.6	0.7	0.9	0.6	0.5	0.4	0.2	0.3
Public administration and defence; compulsory social security	2.5	2.3	2.2	2.1	2.1	2.0	2.0	2.1	1.7	2.0
Education	1.6	1.6	1.4	1.4	1.7	1.5	1.6	1.5	1.2	1.4
Human health and social work activities	1.5	1.5	1.3	1.2	1.4	1.1	0.9	1.1	0.7	0.9
Arts, entertainment and recreation	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
Other service activities	0.5	0.9	0.7	0.8	0.8	0.8	0.6	0.7	0.4	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
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
Total emissions of NACE Rev.2 sections	98.5	98.5	98.3	98.3	98.3	98.4	98.6	98.4	98.5	98.5
Households	1.5	1.5	1.7	1.7	1.7	1.6	1.4	1.6	1.5	1.5
Grand Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

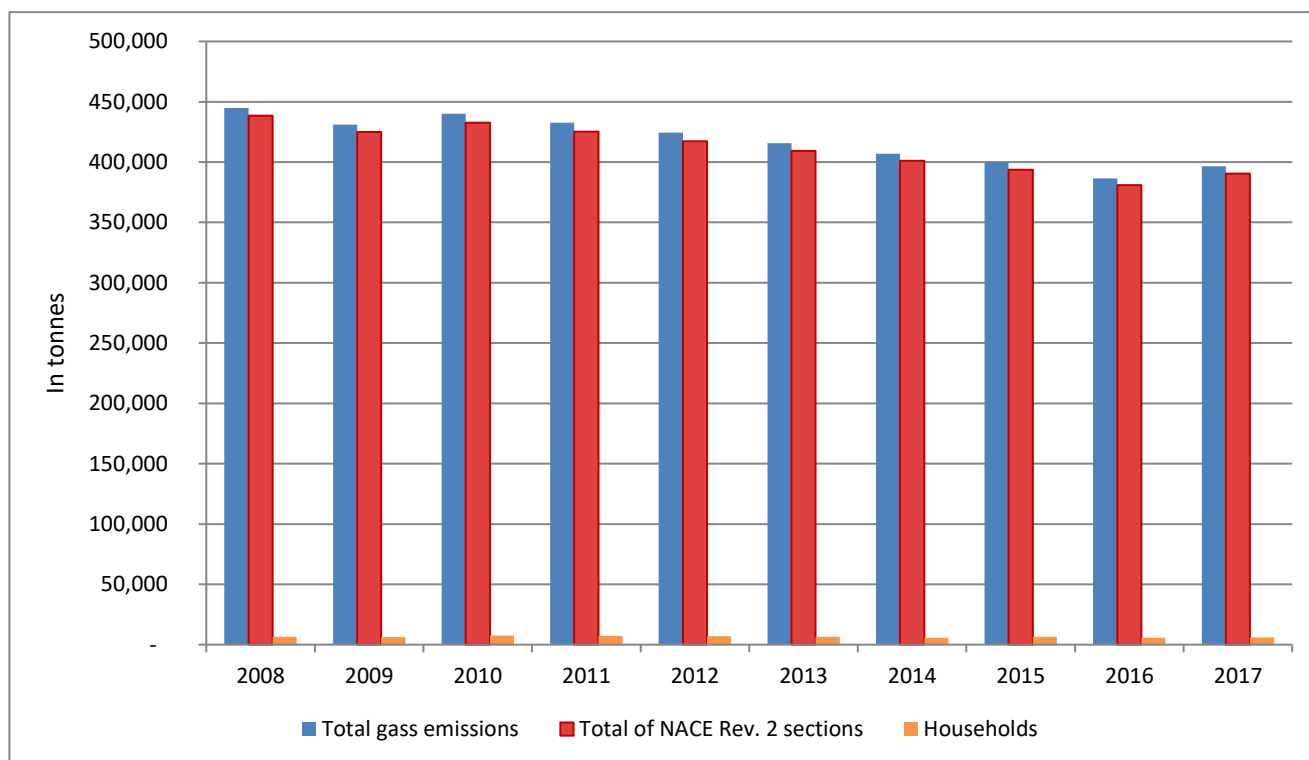
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Graph 5: Percentage distribution of methane (CH₄) emissions by main sections of the Statistical Classification of Economic Activities (NACE Rev. 2) and households 2008* and 2017*



*Provisional data

Graph 6: Methane (CH₄) emissions, as a total, in the economic activity sectors and in households, 2008-2017*



*Provisional data

Table 9: Hydrofluorocarbons (HFCs) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2), in tonnes of CO₂ equivalent, 2008-2017*

Economic Activities (NACE Rev. 2) Sections	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
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
Construction	152,683	155,573	160,270	162,675	168,569	191,442	189,726	192,146	193,419	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
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

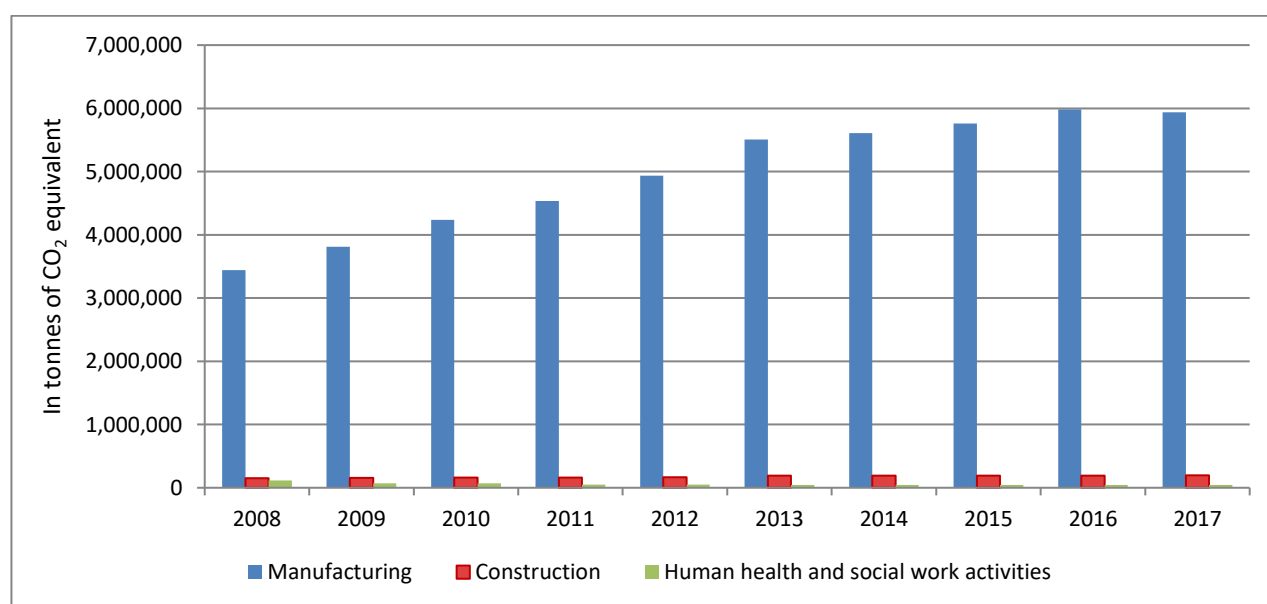
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Table 10: Percentage distribution of hydrofluorocarbons (HFCs) emissions by sections of the Statistical Classification of Economic Activities (NACE Rev. 2), 2008-2017*

Economic Activities (NACE Rev. 2) Sections	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Manufacturing	92.8	94.4	94.9	95.6	95.8	95.9	96.0	96.0	96.2	96.1
Construction	4.1	3.8	3.6	3.4	3.3	3.3	3.2	3.2	3.1	3.2
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
Total emissions	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

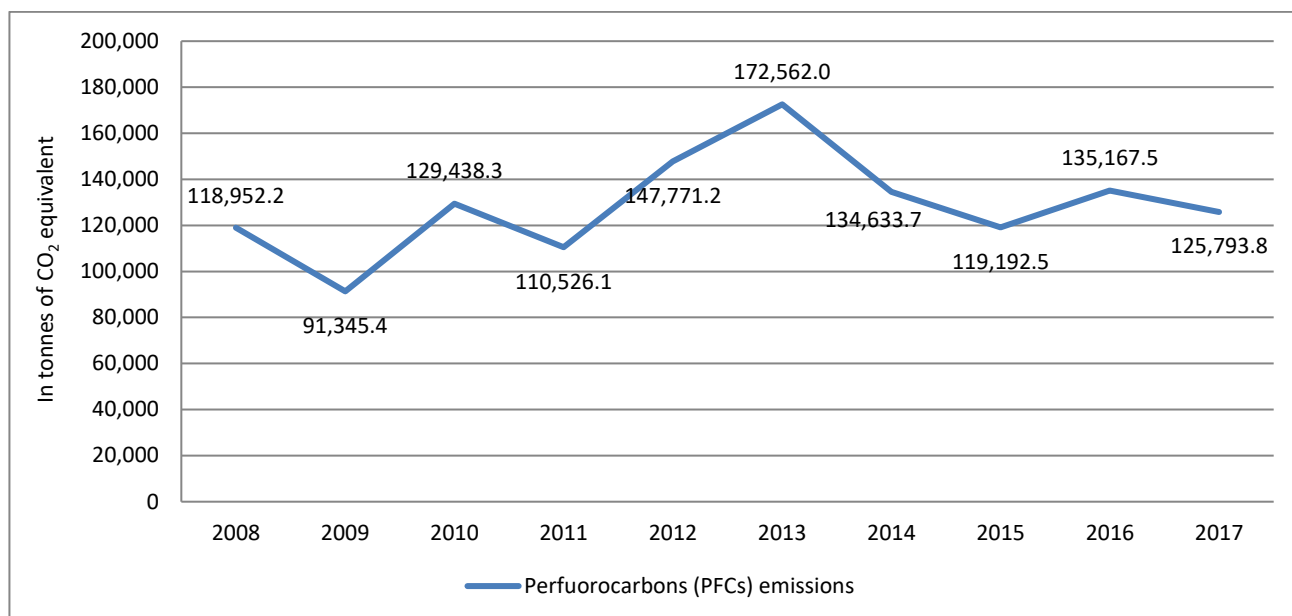
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Graph 7: Distribution of hydrofluorocarbons (HFCs) emissions by section of the Statistical Classification of Economic Activities (NACE Rev. 2), 2008-2017*



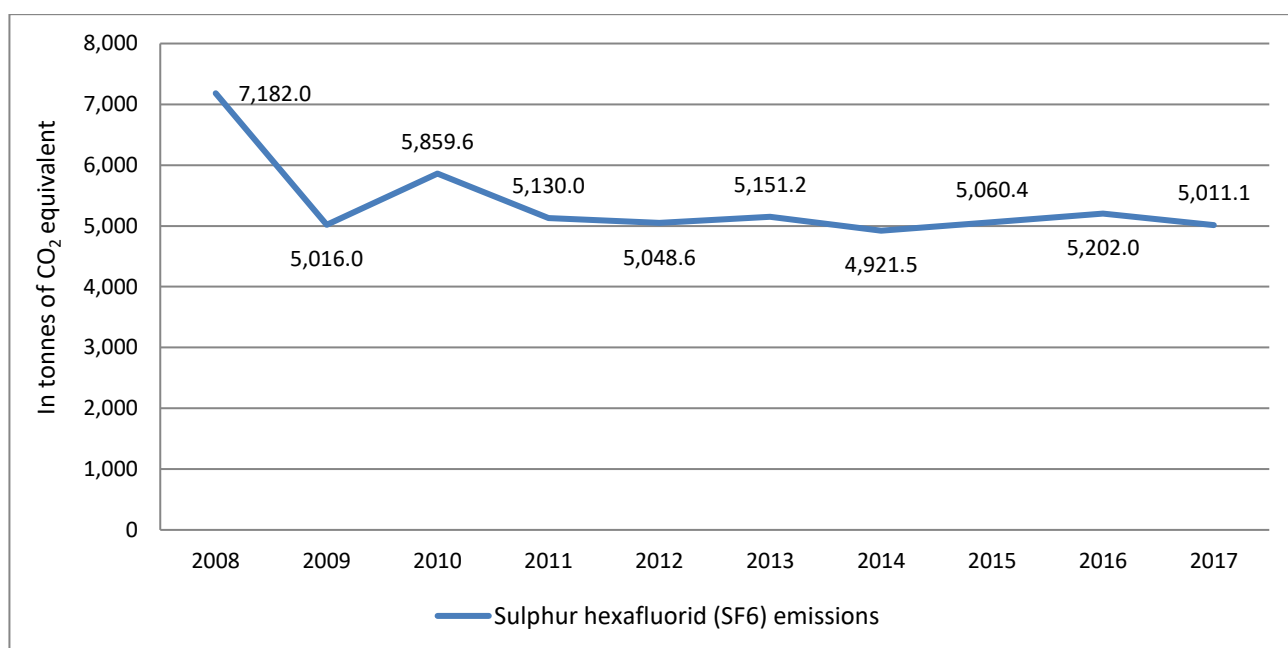
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Graph 8: Perfluorocarbons (PFCs) emissions in Manufacturing, in tonnes of CO₂ equivalents, 2008-2017*



*Provisional data

Graph 9: Sulphur hexafluoride (SF₆) emissions in Energy, in tonnes of CO₂ equivalents, 2008-2017



*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/->