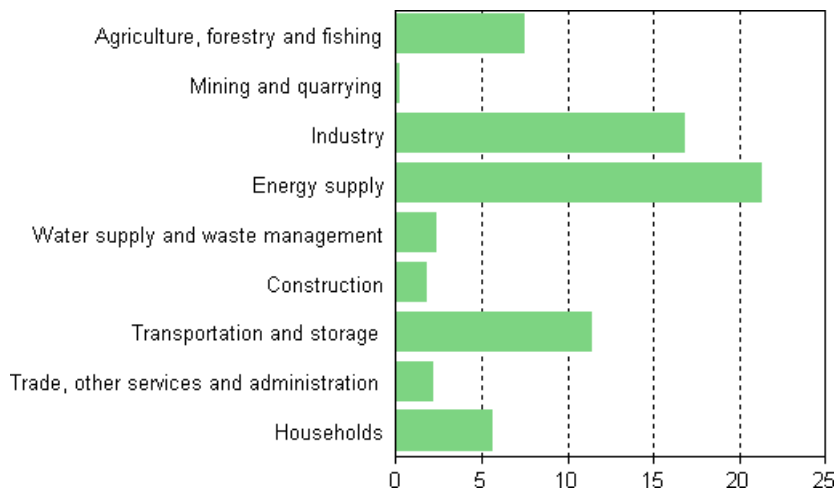


Emissions into air by industry 2011

Almost one-third of greenhouse gas emissions from energy supply

The greenhouse gas emissions in energy supply were almost one-third of the total greenhouse gas emissions in the total economy in 2011. The share of manufacturing was one-fourth, that of transportation and storage 16 per cent, that of agriculture and forestry 11 per cent and that of households eight per cent. These data derive from Statistics Finland's statistics on emissions into air by industry, where emissions are calculated and reported to the European Union according to the industrial classification used in national accounts.

Greenhouse gas emissions by industry 2011, million tonnes CO₂ equivalent



The distribution of other emissions than greenhouse gas emissions by industry varies depending on emission type. In 2011, more than 40 per cent of nitrogen dioxide was produced by the transportation and storage industry, 17 per cent by both energy supply and by manufacturing. More than half of carbon monoxide emissions originated from households. Energy supply and manufacturing both produced over 30 per cent of sulphur dioxide emissions and transportation and storage close to 30 per cent.

Emissions into air by industry groups 2011, tonnes

	Greenhouse gases (CO ₂ -foss, CH ₄ , N ₂ O, HFC, PFC, SF ₆) CO ₂ -eq. ¹⁾²⁾³⁾	Biomass carbon dioxide (CO ₂ -bio)	Nitrous oxide (N ₂ O)	Methane (CH ₄)	Sulphur dioxide (SO ₂)	Nitrogen dioxide (NO ₂)	Carbon monoxide (CO)
A 01, 03 Agriculture, fishing and aquaculture, hunting	7 324 352	629 885	12 872	90 661	1 126	8 773	15 418
A 02 Forestry	308 478	7 735	9	88	2	1 237	7 031
B Mining and quarrying	304 321	791	4	7	149	945	395
C 10 - 12 Food industry, etc.	254 877	27 617	11	9	858	564	185
C 16, 17 Forest industry	3 666 899	18 269 894	316	393	4 894	18 940	21 728
C 19, 20 Oil refining and manufacture of chemicals	5 330 488	129 691	660	731	11 913	7 589	24 606
C 24, 25 Manufacture of basic metals and fabricated metal products	5 919 039	983	33	456	8 486	4 517	6 743
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	1 725 329	16 727	23	29	1 044	4 527	350
D Energy management	21 394 228	8 629 440	972	898	25 691	35 883	14 007
E Water supply and waste management	2 455 477	68 984	534	93 128	39	1 314	1 933
F Construction	1 857 992	54 516	67	104	101	11 373	8 515
G Trade	168 795	25 908	7	40	120	617	2 178
H 49 Land transport	4 157 650	193 261	206	1 357	98	18 062	12 822
H 50 Water transport	3 074 485	93 893	81	264	22 792	56 501	5 830
H 51 Air transport	3 672 461	11 106	138	89	812	9 670	9 981
H 52, 53 Support activities for transportation, postal activities	573 561	31 762	25	91	64	2 096	14 744
L Real estate activities	625 108	158 242	21	193	856	1 530	20 160
I - K, M - S Other service activities and administration	1 534 972	113 710	64	199	352	5 494	26 167
Households	5 692 083	5 744 531	293	11 281	1 987	20 343	261 843
EMISSIONS TOTAL	70 040 605	34 208 675	16 335	200 018	81 383	209 976	454 635

1) Greenhouse gases: fossil carbon dioxide (CO₂-foss), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbon (HFC), perfluorocarbon (PFC), sulphur hexafluoride (SF₆).

2) Greenhouse gases do not include organic carbon dioxide. In the greenhouse gas inventory, organic carbon dioxide emissions are reported in the land use, land-use change and forestry sector, where the amount of carbon dioxide absorbed by forest or other vegetation is also taken into account in the net emissions.

3) CO₂ equivalent has been calculated for methane, nitrous oxide and F-gases using GWP multipliers of the IPCC's 2nd assessment report.

The statistics on emissions into air by industry are part of environmental accounts, where the main principle is to describe the interaction between the environment and the economy. In the statistics, emissions are presented according to the industrial classification used in national accounts. In this way, the data on emissions into air can be directly connected to various monetary variables of national accounts, such as total output and value added. Data on emissions into air by industry can also be connected to data on environmental taxes by industry.

The statistics on emissions into air by industry are calculated according to the EU Regulation on environmental accounts. Finland reports the data for the years 2008 to 2011 to the EU for the first time at the end of September. In future, the data will be reported yearly.

The industrial classification and division used in the statistics on emissions into air by industry differ from the sector division used in the reporting of the greenhouse gas emissions to the UNFCCC. The statistics do not take into consideration the amount of carbon dioxide absorbed by forest or other vegetation either.

Differing from the greenhouse gas inventory and greenhouse gas reporting, the statistics on emissions into air by industry also contain Finnish citizens' emissions from land, water and air transport abroad. In turn, emissions by foreign citizens from transport on Finnish territory are subtracted from the emissions into air by industry. The definition of transport corresponds with the methods of national accounts in which households' transport is included in private consumption. Due to definitional differences, the total volume of greenhouse gas emissions by industry is annually some three to five per cent higher than in the Greenhouse Gas Inventory reported to the UNFCCC.

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Appendix tables

Appendix table 1. Greenhouse gas emissions (CO₂-fos, CH₄, N₂O, HFC, PFC, SF₆) by industry as carbon dioxide equivalents (CO₂ eq.) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	7 724 492	7 509 124	7 777 610	7 632 830
A 01, 03 Agriculture, fishing and aquaculture, hunting	7 422 361	7 227 478	7 481 293	7 324 352
A 02 Forestry	302 131	281 646	296 316	308 478
B Mining and quarrying	162 682	158 362	282 639	304 321
C Manufacturing	19 292 415	15 165 734	16 518 788	16 896 642
C 10 - 12 Food industry, etc.	172 013	256 473	249 798	254 877
C 16, 17 Forest industry	4 228 774	3 491 249	3 965 205	3 666 899
C 19, 20 Oil refining and manufacture of chemicals	6 313 456	5 264 406	4 652 981	5 330 488
C 24, 25 Manufacture of basic metals and fabricated metal products	6 482 204	4 746 684	5 995 576	5 919 039
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	2 095 957	1 406 913	1 655 217	1 725 329
D Energy management	20 950 175	22 097 171	27 577 137	21 394 228
E Water supply and waste management	2 601 103	2 549 987	2 549 059	2 455 477
F Construction	1 491 025	1 401 531	1 723 819	1 857 992
G Trade	107 994	95 949	208 667	168 795
H Transportation and storage	11 506 576	9 847 815	10 601 610	11 478 157
H 49 Land transport	4 612 056	4 420 966	4 501 629	4 157 650
H 50 Water transport	2 998 473	2 514 769	3 007 717	3 074 485
H 51 Air transport	3 600 484	2 672 263	2 912 894	3 672 461
H 52, 53 Support activities for transportation, postal activities	295 564	239 817	179 369	573 561
L Real estate activities	281 092	252 783	326 919	625 108
I - K, M - S Other service activities and administration	1 414 031	1 414 733	1 677 882	1 534 972
Households	7 881 456	7 398 964	7 496 338	5 692 083
EMISSIONS TOTAL	73 413 043	67 892 154	76 740 467	70 040 605

Appendix table 2. Fossil carbon dioxide emissions (CO2) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	1 776 907	1 713 897	1 788 102	1 733 998
A 01, 03 Agriculture, fishing and aquaculture, hunting	1 478 507	1 435 953	1 495 799	1 430 065
A 02 Forestry	298 400	277 944	292 302	303 933
B Mining and quarrying	161 146	157 081	281 206	302 810
C Manufacturing	17 480 242	14 175 505	16 138 448	16 539 413
C 10 - 12 Food industry, etc.	169 149	252 966	246 162	251 240
C 16, 17 Forest industry	4 112 439	3 393 412	3 855 906	3 560 778
C 19, 20 Oil refining and manufacture of chemicals	4 650 055	4 398 927	4 412 561	5 110 416
C 24, 25 Manufacture of basic metals and fabricated metal products	6 461 927	4 730 047	5 976 100	5 899 345
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	2 086 672	1 400 152	1 647 719	1 717 634
D Energy management	20 658 838	21 823 211	27 228 112	21 074 156
E Water supply and waste management	313 100	357 916	355 632	334 109
F Construction	1 474 638	1 384 798	1 702 851	1 834 897
G Trade	105 489	93 684	204 476	165 279
H Transportation and storage	11 317 804	9 676 311	10 429 249	11 300 959
H 49 Land transport	4 506 055	4 315 812	4 402 566	4 065 133
H 50 Water transport	2 968 201	2 488 161	2 976 147	3 043 976
H 51 Air transport	3 552 830	2 636 620	2 874 211	3 627 801
H 52, 53 Support activities for transportation, postal activities	290 719	235 719	176 325	564 049
L Real estate activities	276 250	248 250	321 249	614 556
I - K, M - S Other service activities and administration	1 391 770	1 392 214	1 651 578	1 510 826
Households	7 519 636	7 031 971	7 104 420	5 364 252
EMISSIONS TOTAL	62 475 819	58 054 838	67 205 323	60 775 254

Appendix table 3. Biomass carbon dioxide emissions (CO2-bio) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	590 054	657 484	750 833	637 620
A 01, 03 Agriculture, fishing and aquaculture, hunting	589 138	653 750	745 242	629 885
A 02 Forestry	916	3 734	5 591	7 735
B Mining and quarrying		.	10	791
C Manufacturing	19 423 899	15 538 601	18 405 572	18 444 912
C 10 - 12 Food industry, etc.	33 052	17 563	26 977	27 617
C 16, 17 Forest industry	19 278 062	15 392 904	18 243 178	18 269 894
C 19, 20 Oil refining and manufacture of chemicals	87 498	103 162	106 378	129 691
C 24, 25 Manufacture of basic metals and fabricated metal products	199	1 205	1 549	983
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	25 088	23 766	27 490	16 727
D Energy management	6 459 460	5 986 887	8 021 480	8 629 440
E Water supply and waste management	15 151	23 871	47 192	68 984
F Construction	3 133	21 491	34 142	54 516
G Trade	15 690	16 641	41 178	25 908
H Transportation and storage	206 602	338 757	335 980	330 022
H 49 Land transport	45 823	135 273	127 830	193 261
H 50 Water transport	114 032	156 662	178 056	93 893
H 51 Air transport	6 666	9 957	9 071	11 106
H 52, 53 Support activities for transportation, postal activities	40 082	36 866	21 023	31 762
L Real estate activities	35 258	31 175	53 412	158 242
I - K, M - S Other service activities and administration	106 490	118 266	135 351	113 710
Households	5 634 008	5 976 746	6 582 525	5 744 531
EMISSIONS TOTAL	32 489 746	28 709 918	34 407 676	34 208 675

Appendix table 4. Nitrous oxide emissions (N2O) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	13 098	12 590	13 111	12 881
A 01, 03 Agriculture, fishing and aquaculture, hunting	13 090	12 582	13 102	12 872
A 02 Forestry	8	8	8	9
B Mining and quarrying	5	4	4	4
C Manufacturing	5 743	3 101	1 130	1 042
C 10 - 12 Food industry, etc.	9	11	11	11
C 16, 17 Forest industry	346	292	326	316
C 19, 20 Oil refining and manufacture of chemicals	5 325	2 752	738	660
C 24, 25 Manufacture of basic metals and fabricated metal products	34	27	33	33
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	28	20	22	23
D Energy management	879	827	1 057	972
E Water supply and waste management	556	515	530	534
F Construction	47	48	61	67
G Trade	4	4	8	7
H Transportation and storage	441	397	416	449
H 49 Land transport	206	213	212	206
H 50 Water transport	79	68	81	81
H 51 Air transport	147	110	119	138
H 52, 53 Support activities for transportation, postal activities	9	7	5	25
L Real estate activities	9	9	11	21
I - K, M - S Other service activities and administration	56	59	69	64
Households	385	370	378	293
EMISSIONS TOTAL	21 220	17 924	16 776	16 335

Appendix table 5. Methane emissions (CH4) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	89 868	90 115	91 675	90 750
A 01, 03 Agriculture, fishing and aquaculture, hunting	89 815	90 056	91 607	90 661
A 02 Forestry	53	59	67	88
B Mining and quarrying	7	6	6	7
C Manufacturing	1 516	1 366	1 430	1 617
C 10 - 12 Food industry, etc.	6	8	9	9
C 16, 17 Forest industry	427	354	399	393
C 19, 20 Oil refining and manufacture of chemicals	597	588	553	731
C 24, 25 Manufacture of basic metals and fabricated metal products	461	395	444	456
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	25	22	26	29
D Energy management	901	832	1 014	898
E Water supply and waste management	100 751	96 786	96 621	93 128
F Construction	92	81	94	104
G Trade	36	33	52	40
H Transportation and storage	2 478	2 298	2 051	1 801
H 49 Land transport	1 995	1 861	1 583	1 357
H 50 Water transport	280	268	313	264
H 51 Air transport	97	77	79	89
H 52, 53 Support activities for transportation, postal activities	105	92	77	91
L Real estate activities	99	89	107	193
I - K, M - S Other service activities and administration	231	198	226	199
Households	11 540	12 003	13 071	11 281
EMISSIONS TOTAL	207 518	203 807	206 348	200 018

Appendix table 6. Ammonia emissions (NH₃) by industry in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	34 044	33 151	34 040	33 690
A 01, 03 Agriculture, fishing and aquaculture, hunting	34 035	33 144	34 033	33 682
A 02 Forestry	9	8	7	7
B Mining and quarrying				
C Manufacturing	899	966	753	876
C 10 - 12 Food industry, etc.	2	1		
C 16, 17 Forest industry	83	158	218	115
C 19, 20 Oil refining and manufacture of chemicals	207	490	270	471
C 24, 25 Manufacture of basic metals and fabricated metal products	390	193	126	92
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	217	124	139	198
D Energy management	3	9	4	2
E Water supply and waste management	22	33	28	27
F Construction	94	108	127	137
G Trade	10	9	17	18
H Transportation and storage	1 023	877	733	796
H 49 Land transport	967	821	684	667
H 50 Water transport	6	7	8	8
H 51 Air transport	31	36	33	39
H 52, 53 Support activities for transportation, postal activities	19	14	8	83
L Real estate activities	13	14	14	15
I - K, M - S Other service activities and administration	213	234	285	286
Households	1 193	1 320	1 419	1 079
EMISSIONS TOTAL	37 516	36 721	37 420	36 926

Appendix table 7. Non-methane volatile organic compounds (NMVOC) by industry in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	3 897	3 930	4 234	4 207
A 01, 03 Agriculture, fishing and aquaculture, hunting	2 952	2 994	3 273	3 071
A 02 Forestry	945	936	961	1 137
B Mining and quarrying	133	103	98	95
C Manufacturing	26 001	22 426	23 963	24 132
D Energy management	796	779	979	884
E Water supply and waste management	802	759	712	681
F Construction	1 883	1 610	1 800	1 849
G Trade	3 986	3 825	3 686	3 559
H Transportation and storage	13 298	11 490	11 367	11 399
H 49 Land transport	5 083	4 670	4 251	3 866
H 50 Water transport	1 685	1 464	1 755	1 734
H 51 Air transport	1 069	854	851	984
H 52, 53 Support activities for transportation, postal activities	5 461	4 502	4 510	4 814
L Real estate activities	1 379	1 090	1 092	1 274
I - K, M - S Other service activities and administration	2 987	2 508	2 838	2 800
Households	65 823	64 977	66 806	57 415
EMISSIONS TOTAL	120 985	113 497	117 578	108 296

Appendix table 8. Sulphur dioxide emissions (SO₂) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	1 301	1 297	1 335	1 128
A 01, 03 Agriculture, fishing and aquaculture, hunting	1 299	1 295	1 333	1 126
A 02 Forestry	2	2	2	2
B Mining and quarrying	201	118	153	149
C Manufacturing	34 726	25 989	27 134	27 196
C 10 - 12 Food industry, etc.	547	943	809	858
C 16, 17 Forest industry	7 263	5 323	5 906	4 894
C 19, 20 Oil refining and manufacture of chemicals	14 983	10 341	11 044	11 913
C 24, 25 Manufacture of basic metals and fabricated metal products	9 659	8 040	8 051	8 486
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	2 275	1 343	1 326	1 044
D Energy management	25 399	24 727	30 906	25 691
E Water supply and waste management	81	64	90	39
F Construction	128	131	150	101
G Trade	86	88	215	120
H Transportation and storage	24 971	18 798	21 645	23 765
H 49 Land transport	186	201	151	98
H 50 Water transport	23 681	17 742	20 668	22 792
H 51 Air transport	877	655	715	812
H 52, 53 Support activities for transportation, postal activities	227	200	111	64
L Real estate activities	206	168	287	856
I - K, M - S Other service activities and administration	512	537	593	352
Households	2 164	2 230	2 466	1 987
EMISSIONS TOTAL	89 776	74 147	84 975	81 383

Appendix table 9. Nitrogen dioxide emissions (NO2) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	11 283	10 732	10 525	10 010
A 01, 03 Agriculture, fishing and aquaculture, hunting	9 759	9 431	9 253	8 773
A 02 Forestry	1 524	1 301	1 271	1 237
B Mining and quarrying	1 133	891	928	945
C Manufacturing	38 581	31 206	33 829	36 137
C 10 - 12 Food industry, etc.	510	583	531	564
C 16, 17 Forest industry	21 458	16 650	19 519	18 940
C 19, 20 Oil refining and manufacture of chemicals	6 894	6 994	5 764	7 589
C 24, 25 Manufacture of basic metals and fabricated metal products	4 703	3 783	4 633	4 517
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	5 015	3 197	3 382	4 527
D Energy management	36 296	35 368	43 172	35 883
E Water supply and waste management	1 227	1 306	1 304	1 314
F Construction	11 492	9 716	11 067	11 373
G Trade	455	383	674	617
H Transportation and storage	87 334	71 736	80 853	86 329
H 49 Land transport	22 375	21 007	20 100	18 062
H 50 Water transport	53 760	42 284	51 832	56 501
H 51 Air transport	10 341	7 773	8 399	9 670
H 52, 53 Support activities for transportation, postal activities	858	673	522	2 096
L Real estate activities	1 100	978	1 100	1 530
I - K, M - S Other service activities and administration	5 045	5 193	5 837	5 494
Households	28 544	26 265	25 986	20 343
EMISSIONS TOTAL	222 490	193 775	215 275	209 976

Appendix table 10. Carbon monoxide emissions (CO) in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	19 723	20 717	23 083	22 449
A 01, 03 Agriculture, fishing and aquaculture, hunting	15 511	16 106	17 853	15 418
A 02 Forestry	4 211	4 611	5 230	7 031
B Mining and quarrying	412	387	385	395
C Manufacturing	32 302	25 644	30 473	53 611
C 10 - 12 Food industry, etc.	177	138	183	185
C 16, 17 Forest industry	23 591	18 197	22 012	21 728
C 19, 20 Oil refining and manufacture of chemicals	1 552	1 475	1 425	24 606
C 24, 25 Manufacture of basic metals and fabricated metal products	6 570	5 522	6 513	6 743
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	411	312	341	350
D Energy management	12 481	11 857	15 182	14 007
E Water supply and waste management	2 334	2 356	1 888	1 933
F Construction	8 353	7 109	7 887	8 515
G Trade	2 393	1 920	2 419	2 178
H Transportation and storage	46 044	42 559	42 299	43 376
H 49 Land transport	14 072	14 526	13 983	12 822
H 50 Water transport	6 077	6 026	7 036	5 830
H 51 Air transport	11 106	8 762	8 792	9 981
H 52, 53 Support activities for transportation, postal activities	14 789	13 245	12 489	14 744
L Real estate activities	18 551	17 462	17 699	20 160
I - K, M - S Other service activities and administration	31 158	23 618	26 835	26 167
Households	303 265	309 158	311 963	261 843
EMISSIONS TOTAL	477 014	462 786	480 111	454 635

Appendix table 11. Particulate matter emissions (PM 10) by industry in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	3 018	2 901	2 868	2 948
A 01, 03 Agriculture, fishing and aquaculture, hunting	2 982	2 871	2 838	2 918
A 02 Forestry	36	31	30	30
B Mining and quarrying	4 394	7 717	6 895	5 955
C Manufacturing	4 824	3 048	5 057	5 925
C 10 - 12 Food industry, etc.	1 101	1 000	1 085	1 177
C 16, 17 Forest industry	2 251	1 480	2 260	2 083
C 19, 20 Oil refining and manufacture of chemicals	311	231	392	1 266
C 24, 25 Manufacture of basic metals and fabricated metal products	982	233	1 185	1 166
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	179	105	135	234
D Energy management	1 984	1 685	1 947	1 698
E Water supply and waste management	136	169	144	136
F Construction	1 727	1 477	2 557	2 475
G Trade	71	66	140	114
H Transportation and storage	6 200	5 241	4 899	5 103
H 49 Land transport	4 080	3 473	2 898	2 807
H 50 Water transport	1 400	1 187	1 422	1 395
H 51 Air transport	424	343	355	437
H 52, 53 Support activities for transportation, postal activities	296	238	225	464
L Real estate activities	159	144	180	368
I - K, M - S Other service activities and administration	1 051	1 144	1 408	1 326
Households	25 052	26 865	30 176	25 960
EMISSIONS TOTAL	48 615	50 457	56 270	52 006

Appendix table 12. Particulate matter emissions (PM 2.5) by industry in 2008 to 2011, tonnes

	2008	2009	2010	2011
A Agriculture, forestry and fishing	1 078	1 027	988	1 019
A 01, 03 Agriculture, fishing and aquaculture, hunting	1 056	1 008	970	1 000
A 02 Forestry	22	19	18	19
B Mining and quarrying	3 064	5 408	4 815	4 145
C Manufacturing	3 256	2 276	3 377	4 026
C 10 - 12 Food industry, etc.	1 056	978	1 045	1 106
C 16, 17 Forest industry	1 577	1 040	1 621	1 479
C 19, 20 Oil refining and manufacture of chemicals	145	105	218	726
C 24, 25 Manufacture of basic metals and fabricated metal products	390	93	418	542
C 13 - 15, 18, 21 - 23, 26 - 33 Other industries	87	60	75	174
D Energy management	679	599	690	553
E Water supply and waste management	92	110	97	93
F Construction	937	794	1 102	1 144
G Trade	38	35	71	61
H Transportation and storage	4 373	3 600	3 480	3 705
H 49 Land transport	2 536	2 153	1 800	1 723
H 50 Water transport	1 251	996	1 213	1 280
H 51 Air transport	373	282	299	372
H 52, 53 Support activities for transportation, postal activities	213	170	168	330
L Real estate activities	97	87	100	177
I - K, M - S Other service activities and administration	624	676	857	802
Households	21 868	23 556	26 544	22 831
EMISSIONS TOTAL	36 106	38 168	42 121	38 555

Inquiries

Niina Autio 09 1734 3406

Jukka Muukkonen 09 1734 3224

Director in charge:

Leena Storgårds

www.stat.fi

Source: Emissions into air by industry 2011, Statistics Finland