AIR POLLUTANT EMISSIONS IN FINLAND 1990–2015

INFORMATIVE INVENTORY REPORT

to the Secretariat of the UNECE
Convention on Long-Range Transboundary Air Pollution

PART 5 ANNEXES

Revised 28 April 2017 from the submission on 15.3.2017

FINNISH ENVIRONMENT INSTITUTE

Centre for Sustainable Consumption and Production

Environmental Management in Industry – Air Emissions Team

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NFR tables for the year 2015

FI: 15.03.2017: 2015	NFR sectors to be reported			Main Pollutants (from 1990)				Particulate Matter (from 2000)				Other (from 1990)	Priority Heavy Metals (from 1990)			Additional Heavy Metals (from 1990, voluntary reporting)						POPs (1) (from 1990)							
				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregati	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
A_PublicP	1A1a	Public electricity and heat produ		24,628	0,967	14,832	0,002	0,395	1,065	1,753	0,028	12,928	1,501	0,113	0,166	0,538	1,189	1,791	2,084	NA	18,556	3,734	IE	IE	IE	IE	0,425	0,056	NA
B_Industry	1A1b	Petroleum refining		2,193	0,079	7,745	NA	0,049	0,160	0,508	0,009	0,982	3,135	0,078	0,015	0,503	3,886	1,427	3,144	NA	6,919	0,100	IE	IE	IE	IE	0,015	0,000	NA
B_Industry	1A1c	Manufacture of solid fuels and		IE	IE	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	IE	NA	NA	NA	NA	NA	IE	NA
B_Industry	1A2a	Stationary combustion in manu		3,224	0,028	1,678	NA	0,031	0,055	0,101	0,002	0,922	0,030	0,002	0,001	0,004	0,087	0,004	0,097	NE	0,032	0,015	IE	IE	IE	IE	0,001	0,000	NA
B_Industry	1A2b	Stationary combustion in manu		0,241	0,004	3,038	NA	0,006	0,012	0,024	0,002	0,065	0,181	0,002	0,001	0,029	0,219	0,078	0,081	NE	0,114	0,002	IE	IE	IE	IE	0,002	0,000	NA
B_Industry	1A2c	Stationary combustion in manu		1,446	0,037	2,971	NA	0,058	0,090	0,107	0,015	0,301	0,040	0,001	0,000	0,004	0,006	0,006	0,398	NE	0,033	0,008	IE	IE	IE	IE	0,005	0,000	NA
B_Industry	1A2d	Stationary combustion in manu		16,768	0,374	3,190	NA	1,436	2,151	2,650	0,020	19,406	3,592	0,283	0,112	0,148	0,249	0,391	0,495	NE	3,788	0,828	IE	IE	IE	IE	0,196	0,031	0,235
B_Industry	1A2e	Stationary combustion in manu		0,286	0,021	0,254	NA	0,011	0,019	0,032	0,003	0,125	0,114	0,003	0,002	0,045	0,093	0,128	0,177	NE	0,305	0,017	IE	IE	IE	IE	0,002	0,000	NA
B_Industry	1A2f	Stationary combustion in manu		2,079	0,011	0,380	IE	0,028	0,057	0,124	0,003	5,985	1,531	0,037	0,010	0,247	1,813	0,708	1,514	NE	3,432	0,065	IE	IE	IE	IE	0,003	0,000	IE
I_Offroad	1A2gvii	Mobile Combustion in manufac		6,964	1,310	0,003	0,003	0,367	0,396	0,411	0,254	7,866	NA	0,003	NA	NA	0,016	0,547	0,023	0,003	0,322	NA	IE	IE	NA	NA	0,026	NA	NA
B_Industry	1A2gviii	Stationary combustion in manu		4,587	0,335	3,653	NA	0,476	1,523	4,731	0,127	10,060	1,584	0,099	0,020	0,341	1,152	1,742	2,866	NE	13,464	0,471	IE	IE	IE	IE	0,089	0,022	NA
H_Aviation	1A3ai(i)	International aviation LTO (civil)		0,646	0,090	0,040	NA	0,005	0,005	0,005	NA	0,682	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NA	NA
H_Aviation	1A3aii(i)	Domestic aviation LTO (civil)		0,179	0,033	0,012	NA	0,001	0,001	0,001	NA	0,808	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NA	NA
F_RoadTra	1A3bi	Road transport: Passenger car		10,725	3,911	0,027	1,066	0,277	0,317	0,325	0,169	39,745	0,086	0,021	0,016	0,000	0,045	0,073	0,024	0,000	4,266	0,160	IE	IE	IE	IE	0,096	0,128	10,651
F_RoadTra	1A3bii	Road transport: Light duty vehic		5,120	0,652	0,003	0,010	0,325	0,371	0,380	0,209	3,910	0,018	0,003	0,002	0,000	0,010	0,007	0,003	0,000	0,604	0,585	IE	IE	IE	IE	0,019	0,021	1,729
F_RoadTra	1A3biii	Road transport: Heavy duty veh		19,591	0,495	0,012	0,025	0,308	0,352	0,361	0,191	6,284	0,066	0,011	0,007	0,000	0,038	0,027	0,011	0,000	2,202	2,142	IE	IE	IE	IE	0,099	0,085	6,344
F_RoadTra	1A3biv	Road transport: Mopeds & mot		0,318	2,037	0,001	0,003	0,051	0,058	0,060	0,010	10,374	0,002	0,001	0,000	0,000	0,001	0,002	0,001	0,000	0,109	0,004	IE	IE	IE	IE	0,002	0,003	0,256
F_RoadTra	1A3bv	Road transport: Gasoline evap		NA	3,255	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F_RoadTra	1A3bvi	Road transport: Automobile tyre		NA	NA	NA	NA	0,626	1,145	1,529	0,123	NA	0,529	0,004	0,020	0,000	0,088	29,709	0,003	NE	21,021	NA	NA	NA	NA	NA	NA	NA	NA
F_RoadTra	1A3bvii	Road transport: Automobile roa		NA	NA	NA	NA	3,674	6,789	13,583	0,113	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
I_Offroad	1A3c	Railways		1,523	0,082	0,000	0,000	0,027	0,031	0,032	0,018	0,198	NA	0,000	NA	NA	0,001	0,037	0,002	0,000	0,022	NA	IE	IE	NA	NA	0,002	NA	NA
G_Shippin	1A3di(ii)	International inland waterways		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G_Shippin	1A3dii	National navigation (shipping)		5,660	3,410	0,064	0,001	0,319	0,326	0,329	0,050	19,796	0,010	0,001	0,002	0,010	0,011	0,069	0,417	0,009	0,089	0,013	NA	NA	NA	NA	NA	0,007	0,071
I_Offroad	1A3ei	Pipeline transport		0,005	0,000	0,000	NA	NA	NA	NA	NA	0,001	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,000	NA	NA	NA	NA	NA	NA	NA
I_Offroad	1A3eii	Other (please specify in the IIR		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C_OtherSt	1A4ai	Commercial/institutional: Static		1,217	0,091	1,061	0,002	0,122	0,190	0,267	0,025	0,844	0,090	0,009	0,002	0,017	0,119	0,053	0,542	0,014	2,032	0,071	IE	IE	IE	IE	0,054	0,014	0,967
I_Offroad	1A4aii	Commercial/institutional: Mobil		2,951	4,077	0,002	0,001	0,336	0,363	0,376	0,078	36,166	NA	0,002	NA	NA	0,008	0,279	0,011	0,002	0,164	NA	IE	IE	NA	NA	0,013	NA	NA
C_OtherSt	1A4bi	Residential: Stationary		5,161	17,283	0,997	0,751	9,726	10,072	10,511	2,923	105,858	0,544	0,151	0,025	0,065	1,785	0,339	1,630	0,250	35,099	1,041	IE	IE	IE	IE	7,611	0,250	4,154
I_Offroad	1A4bii	Residential: Household and ga		0,317	1,065	0,000	0,000	0,011	0,012	0,013	0,002	26,491	NA	0,000	NA	NA	0,001	0,048	0,002	0,000	0,028	NA	IE	IE	NA	NA	0,002	NA	NA
C_OtherSt	1A4ci	Agriculture/Forestry/Fishing: Sta		0,961	0,305	0,557	0,005	0,147	0,279	0,694	0,010	1,257	0,299	0,023	0,007	0,115	0,412	0,332	0,473	0,032	4,958	0,161	IE	IE	IE	IE	0,075	0,032	0,804
I_Offroad	1A4cii	Agriculture/Forestry/Fishing: Off		4,286	1,492	0,003	0,002	0,252	0,273	0,283	0,142	9,597	NA	0,003	NA	NA	0,013	0,437	0,018	0,003	0,257	NA	IE	IE	NA	NA	0,021	NA	NA
I_Offroad	1A4ciii	Agriculture/Forestry/Fishing: Na		2,031	0,088	0,000	0,000	0,047	0,048	0,049	0,015	0,292	0,004	0,000	0,001	0,001	0,002	0,029	0,033	0,003	0,040	0,004	NA	NA	NA	NA	NA	0,003	0,020
C_OtherSt	1A5a	Other stationary (including milit		0,570	0,023	0,026	0,000	0,013	0,018	0,019	0,004	0,104	0,002	0,000	0,000	0,001	0,001	0,011	0,010	0,001	0,020	0,004	IE	IE	IE	IE	0,000	0,001	NA
I_Offroad	1A5b	Other, Mobile (including militar		0,378	0,043	0,031	NA	0,017	0,017	0,017	0,008	0,679	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B1a	Fugitive emission from solid fu		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B1b	Fugitive emission from solid fu		NA	0,067	NA	0,003	IE	IE	IE	NE	NA	0,023	0,001	IE	0,009	0,004	0,009	0,004	NA	0,047	0,201	IE	IE	IE	IE	0,464	NA	3,152
D_Fugitive	1B1c	Other fugitive emissions from s		NA	NA	NA	NA	0,654	0,932	1,425	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B2ai	Fugitive emissions oil: Explorat		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B2aiv	Fugitive emissions oil: Refining		NA	3,008	NA	NA	NA	NA	NA	NA	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12,170
D_Fugitive	1B2av	Distribution of oil products		0,001	2,970	NA	NA	0,000	0,000	0,000	NA	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B2b	Fugitive emissions from natura		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B2c	Venting and flaring (oil, gas, co		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D_Fugitive	1B2d	Other fugitive emission	(a)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
B_Industry	2A1	Cement production		IE	0,023	IE	NA	IE	IE	IE	NA	NA	NA	NA	0,012	NA	NA	NA	NA	NA	NA	0,010	IE	IE	IE	IE	IE	NA	2,348
B_Industry	2A2	Lime production		IE	NA	IE	NA	0,000	0,001	0,003	0,000	NA	0,000	IE	NA	NA	0,000	0,003	0,000	NA	0,005	0,129	NA	NA	NA	NA	NA	NA	0,248
B_Industry	2A3	Glass production		IE	0,002	NA	NA	0,006	0,007	0,008	0,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,000	NA	NA	NA	NA	NA	NA	NA
B_Industry	2A5a	Quarrying and mining of minera		NA	NA	NA	NA	0,007	0,043	0,088	NA	IE	0,001	0,001	NA	0,006	0,002	0,039	0,002	NA	0,033	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2A5b	Construction and demolition		NA	NA	NA	NA	0,086	0,764	1,515	NA	NA	0,007	0,004	0,001	0,010	0,003	0,021	0,004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2A5c	Storage, handling and transpor		NA	NA	NA	NA	0,025	0,242	0,622	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2A6	Other mineral products (please		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2B1	Ammonia production		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2B2	Nitric acid production		0,435	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2B3	Adipic acid production		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2B5	Carbide production		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2B6	Titanium dioxide production		IE	IE	IE	IE	0,002	0,008	0,015	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
B_Industry	2B7	Soda ash production		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2B10a	Chemical industry: Other (plea		0,136	2,312	0,376	0,403	0,203	0,324	0,394	0,000	IE	NA	NA	0,069	NA	NA	0,006	0,038	NA	NA	0,150	NA	NA	NA	NA	0,000	8,930	0,004
B_Industry	2B10b	Storage, handling and transpor		0,000	0,109	0,000	NA	0,001	0,010	0,033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2C1	Iron and steel production		0,000	0,177	0,003	NA	0,123	0,144	0,209	0,000	0,513	0,245	0,020	0,121	0,115	3,953	0,788	1,029	NA	2,802	0,537	IE	IE	IE	IE	0,012	NA	13,812
B_Industry	2C2	Ferroalloys production		NA	0,001	NA	NA	0,078	0,087	0,095	0,008	NA	0,013	0,003	0,001	0,001	0,371	0,070	0,089	NA	0,655	NA	IE	IE	NA	IE	0,000	NA	NA
B_Industry	2C3	Aluminium production		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2C4	Magnesium production		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2C5	Lead production		NA	NA	NA	NA	IE	IE	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2C6	Zinc production		NA	0,001	NA	NA	0,000	0,002	0,009	NA	NA	IE	0,024	0,001	0,005	NA	0,066	NA	NA	4,995	0,030	NA	NA	NA	NA	NA	NA	NA
B_Industry	2C7a	Copper production		NA	0,009	0,000	NA	0,000	0,000	0,000	0,000	0,006	0,001	0,001	NA	0,050	NA	0,002	0,000	0,121	0,004	1,157	NA	NA	NA	NA	NA	6,010	0,176
B_Industry	2C7b	Nickel production		NA	0,046	0,001	0,070	IE	IE	IE	NA	NA	NA	NA	NA	NA	NA	NA	1,692	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2C7c	Other metal production (please		0,000	0,012	0,000	0,000	0,007	0,008	0,013	NA	NA	0,269	0,000	0,000	0,154	0,041	0,269	0,000	NA	0,335	NA	NA	NA	NA	NA	NA	0,082	0,096
B_Industry	2C7d	Storage, handling and transpor		NA	NA	NA	NA	0,027	0,322	0,686	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
E_Solvents	2D3a	Domestic solvent use including		NA	4,220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3b	Road paving with asphalt		NA	0,337	NA	NA	0,058	0,064	0,085	0,003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,011	NA	NA	NA	NA	NA	NA	NA
B_Industry	2D3c	Asphalt roofing		NA	0,197	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2D3d	Coating applications		NA	6,771	NA	NA	0,001	0,004	0,007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3e	Degreasing		NA	0,423	NA	NA	0,000	0,000	0,001	NA	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3f	Dry cleaning		NA	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3g	Chemical products		NA	2,034	NA	0,004	0,001	0,001	0,002	NA	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3h	Printing		NA	0,865	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E_Solvents	2D3i	Other solvent use (please spec		NA	1,512	0,014	0,147	0,076	0,083	0,089	0,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	IE	IE	IE	IE	0,026	0,001	NA
E_Solvents	2G	Other product use (please spe		0,000	0,000	0,008	0,000	0,094	0,094	0,094	0,000	0,011	0,000	0,000	0,000	0,000	0,000	0,000	NA	NA	NA	0,000	IE	IE	IE	IE	0,001	NA	NA
B_Industry	2H1	Pulp and paper industry		NA	1,530	1,038	0,018	0,355	0,414	0,469	0,008	IE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,722	NA	NA	NA	NA	NA	NA	NA
B_Industry	2H2	Food and beverages industry		NA	1,148	NA	NA	0,388	0,407	0,418	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,000	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2H3	Other industrial processes (ple		IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
B_Industry	2I	Wood processing		NA	1,192	IE	NA	0,001	0,026	0,129	NA	0,035	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2J	Production of POPs		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
B_Industry	2K	Consumption of POPs and hea		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B_Industry	2L	Other production, consumption		0,001	0,004	0,000	0,001	0,004	0,009	0,016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,009	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B1a	Manure management - Dairy ca		0,047	6,463	NA	5,052	0,073	0,113	0,245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B1b	Manure management - Non-da		0,137	3,948	NA	4,835	0,049	0,074	0,160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B2	Manure management - Sheep		0,011	0,169	NA	0,155	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B3	Manure management - Swine		0,009	0,335	NA	3,306	0,050	0,309	0,629	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4a	Manure management - Buffalo		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
K_AgriLive	3B4d	Manure management - Goats		0,000	0,004	NA	0,005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

FI: 15.03.2017: 2015	NFR sectors to be reported			Main Pollutants (from 1990)				Particulate Matter (from 2000)				Other (from 1990)	Priority Heavy Metals (from 1990)			Additional Heavy Metals (from 1990, voluntary reporting)						POPs (1) (from 1990)							
				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
K_AgriLive	3B4e	Manure management - Horses		0,031	0,250	NA	0,668	0,006	0,008	0,018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4f	Manure management - Mules a		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
K_AgriLive	3B4gi	Manure mangement - Laying h		0,032	0,173	NA	0,679	0,015	0,095	0,095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4gii	Manure mangement - Broilers		0,070	0,483	NA	0,567	0,047	0,356	0,356	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4giii	Manure mangement - Turkeys		0,007	0,025	NA	0,060	0,001	0,008	0,008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4giv	Manure management - Other p		0,003	0,017	NA	0,070	0,025	0,195	0,195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
K_AgriLive	3B4h	Manure management - Other a		0,058	1,205	NA	2,592	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da1	Inorganic N-fertilizers (includes		8,803	NA	NA	2,312	0,083	0,411	1,943	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da2a	Animal manure applied to soils		4,375	2,552	NA	7,514	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da2b	Sewage sludge applied to soil		NE	NA	NA	0,002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da2c	Other organic fertilisers applied		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da3	Urine and dung deposited by g		0,846	0,066	NA	0,945	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Da4	Crop residues applied to soils		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Db	Indirect emissions from manag		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Dc	Farm-level agricultural operatio		NA	NA	NA	NA	0,015	0,097	0,384	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Dd	Off-farm storage, handling and		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3De	Cultivated crops	(b)	NA	0,887	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L_AgriOthe	3Df	Use of pesticides		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0,014	NA
L_AgriOthe	3F	Field burning of agricultural res		0,071	0,129	0,010	0,070	0,177	0,186	0,189	0,022	2,265	0,002	0,019	0,004	0,000	0,003	0,001	0,001	NE	0,016	0,015	IE	IE	IE	IE	0,000	NA	NA

FI: 15.03.2017: 2015	NFR sectors to be reported			Main Pollutants (from 1990)				Particulate Matter (from 2000)				Other (from 1990)	Priority Heavy Metals (from 1990)			Additional Heavy Metals (from 1990, voluntary reporting)						POPs (1) (from 1990)							
				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
L_AgriOthe	3I	Agriculture other (please speci		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
J_Waste	5A	Biological treatment of waste -		NA	0,095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J_Waste	5B1	Biological treatment of waste -		IE	0,050	IE	0,101	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5B2	Biological treatment of waste -		IE	0,004	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5C1a	Municipal waste incinerat	(c)	0,223	0,013	0,014	0,000	0,000	0,000	0,000	0,000	0,007	0,003	0,001	0,001	0,000	0,002	0,006	0,001	NE	0,020	0,334	IE	IE	IE	IE	0,056	1,316	6,579
J_Waste	5C1bi	Industrial waste incinerat	(c)	0,296	0,038	0,013	NE	0,000	0,000	0,001	0,000	0,009	0,004	0,001	0,004	0,011	0,004	0,011	0,005	NE	2,275	0,366	IE	IE	IE	IE	0,090	3,931	34,489
J_Waste	5C1bii	Hazardous waste incin	(c)	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5C1biii	Clinical waste incinerat	(c)	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5C1biv	Sewage sludge incinerat	(c)	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5C1bv	Cremation	(c)	IE	IE	IE	NA	0,000	0,000	0,000	0,000	IE	0,001	0,000	0,015	0,000	0,000	0,000	0,000	0,001	0,004	0,077	IE	IE	IE	IE	0,001	0,004	0,001
J_Waste	5C1bvi	Other waste incineratio	(c)	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5C2	Open burning of waste		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
J_Waste	5D1	Domestic wastewater handling		NA	0,141	NA	0,000	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5D2	Industrial wastewater handling		IE	0,156	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
J_Waste	5D3	Other wastewater handling		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J_Waste	5E	Other waste (please sp	(d)	NA	IE	NA	0,375	0,102	0,102	0,102	0,009	NA	0,000	0,001	0,001	0,001	0,001	0,002	NA	NA	NA	1,078	NA	NA	NA	NA	NA	NA	53,582
M_Other	6A	Other (included in national total		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	NATIONAL	National total for the entire ter		139,653	87,774	42,060	31,824	21,984	32,147	50,024	4,602	324,572	13,926	0,925	0,637	2,431	15,631	39,570	16,924	NE	129,066	14,249	IE	IE	IE	IE	9,407	20,940	151,890
	ADJUSTME	Sum of adjustments (negative value) from Annex VII					-1,245																						
	NATIONAL	National total for comp	(e)				30,579																						

FI: 15.03.2017: 2015	NFR sectors to be reported			Main Pollutants (from 1990)				Particulate Matter (from 2000)				Other (from 1990)	Priority Heavy Metals (from 1990)			Additional Heavy Metals (from 1990, voluntary reporting)						POPs (1) (from 1990)							
				NOx (as NO_2)	NMVOC	SOx (as SO_2)	NH_3	$PM_{2.5}$	PM_{10}	TSP	BC	CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn	PCDD/ PCDF (dioxin	PAHs benzo(a)	benzo(b)	benzo(k)	Indeno	Total 1-4	HCB	PCBs
NFR Aggregation for	NFR Code	Longname	Notes	kt	kt	kt	kt	kt	kt	kt	kt	kt	t	t	t	t	t	t	t	t	t	g I-TEQ	t	t	t	t	t	kg	kg
'MEMO' ITEMS - NOT TO BE INCLUDED IN NATIONAL TOTALS																													
O_AviCruis	1A3ai(ii)	International aviation cruise (civ		7,124	0,131	0,480	NA	0,107	0,107	0,107	NA	1,413	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NA	NA
O_AviCruis	1A3aii(ii)	Domestic aviation cruise (civil)		0,578	0,046	0,036	NA	0,004	0,004	0,004	NA	0,431	NA	NA	NA	NA	NA	NA	NA	NA	NA	NE	NE	NE	NE	NE	NE	NA	NA
P_IntShipp	1A3di(i)	International maritime navigatio		16,700	0,679	0,584	NE	NE	NE	0,505	NE	2,202	NE	NA	NA	NA	NA	NA	NA	NA	NA	NE	IE	IE	IE	IE	NE	NA	NA
z_Memo	1A5c	Multilateral operations		NE	NE	NE	NA	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	IE	IE	IE	IE	NE	NA	NA
z_Memo	1A3	Transport (fuel used)		NA	NA	NA	NA	NA	NA	NA	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
z_Memo	6B	Other not included in national to		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N_Natural	11A	Volcanoes		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N_Natural	11B	Forest fires		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO	NO
N_Natural	11C	Other natural emissions (pleas		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO	NO

FI: 15.03.2017: 2015	NFR sectors to be reported			Activity Data (from 1990)						
				Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	*Other activity (specified)*	*Other Activity Units*
NFR Aggregation for	NFR Code	Longname	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		
A_PublicP	1A1a	Public electricity and heat produ		5560,411042	113160,4	39779,2	84243,3	681,79	NA	*TJ NCV*
B_Industry	1A1b	Petroleum refining		23991,06022	5459,806	11094,1	18,96	NA	NA	*TJ NCV*
B_Industry	1A1c	Manufacture of solid fuels and		NO	NO	NO	NO	NO	NA	*TJ NCV*
B_Industry	1A2a	Stationary combustion in manu		4593,837282	20176,93	784,745	21,43	0,4	NA	*TJ NCV*
B_Industry	1A2b	Stationary combustion in manu		844,477948	218,2365	1513,93	18,106	NA	NA	*TJ NCV*
B_Industry	1A2c	Stationary combustion in manu		13407,18093	130,1536	1093,42	248,19	29,75	NA	*TJ NCV*
B_Industry	1A2d	Stationary combustion in manu		6338,682647	9584,025	18485,2	176618	249,399	NA	*TJ NCV*
B_Industry	1A2e	Stationary combustion in manu		501,8264787	787,7626	195,704	162,539	NA	NA	*TJ NCV*
B_Industry	1A2f	Stationary combustion in manu		707,875915	5836,69	758,861	109,801	NA	IE	*TJ NCV*
I_Offroad	1A2gvii	Mobile Combustion in manufac		13727,77583	NA	NA	NA	NA	NA	*TJ NCV*
B_Industry	1A2gviii	Stationary combustion in manu		17008,81032	4918,094	6412,45	18559,1	NA	NA	*TJ NCV*
H_Aviation	1A3ai(i)	International aviation LTO (civil)		2066,116967	NA	NA	NA	NA	NA	*TJ NCV*
H_Aviation	1A3aii(i)	Domestic aviation LTO (civil)		662,4857398	NA	NA	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3bi	Road transport: Passenger car		91395,60868	NA	52,9619	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3bii	Road transport: Light duty vehic		14794,32932	NA	11,4205	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3biii	Road transport: Heavy duty vehi		54225,07642	NA	95,9159	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3biv	Road transport: Mopeds & mot		2204,030563	NA	NA	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3bv	Road transport: Gasoline evap		NA	NA	NA	NA	NA	NA	*TJ NCV*
F_RoadTra	1A3bvi	Road transport: Automobile tyre		NA	NA	NA	NA	NA	NA	*10^6 km*
F_RoadTra	1A3bvii	Road transport: Automobile roa		NA	NA	NA	NA	NA	NA	*10^6 km*
I_Offroad	1A3c	Railways		928,4383603	NA	NA	NA	NA	NA	*TJ NCV*

FI: 15.03.2017: 2015	NFR sectors to be reported			Activity Data (from 1990)						
				Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	*Other activity (specified)*	*Other Activity Units*
NFR Aggregation for	NFR Code	Longname	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		
G_Shippin	1A3di(ii)	International inland waterways		NA	NA	NA	NA	NA	NA	*TJ NCV*
G_Shippin	1A3dii	National navigation (shipping)		5014,402754	NA	NA	NA	NA	NA	*TJ NCV*
I_Offroad	1A3ei	Pipeline transport		NA	NA	NA	73,5566	NA	NA	*TJ NCV*
I_Offroad	1A3eii	Other (please specify in the IIR)		NA	NA	NA	NA	NA	NA	*TJ NCV*
C_OtherSt	1A4ai	Commercial/institutional: Statio		9587,895623	137,5771	1280,22	3323,59	NA	NA	*TJ NCV*
I_Offroad	1A4aii	Commercial/institutional: Mobil		6787,617737	NA	173,611	NA	NA	NA	*TJ NCV*
C_OtherSt	1A4bi	Residential: Stationary		13551,67334	168	1080	50037	NA	NA	*TJ NCV*
I_Offroad	1A4bii	Residential: Household and ga		1167,562377	NA	NA	NA	NA	NA	*TJ NCV*
C_OtherSt	1A4ci	Agriculture/Forestry/Fishing: Sta		3934,407565	1331	37,5924	5824	NA	NA	*TJ NCV*
I_Offroad	1A4cii	Agriculture/Forestry/Fishing: Off		10962,44875	NA	NA	NA	NA	NA	*TJ NCV*
I_Offroad	1A4ciii	Agriculture/Forestry/Fishing: Na		1411,706728	NA	NA	NA	NA	NA	*TJ NCV*
C_OtherSt	1A5a	Other stationary (including milit		424,26	66,24	NO	58,37	NA	NA	*TJ NCV*
I_Offroad	1A5b	Other, Mobile (including military		1703,297	NA	NA	NA	NA	NA	*TJ NCV*
D_Fugitive	1B1a	Fugitive emission from solid fu		NA	NA	NA	NA	NA	NA	*Coal produced [Mt]*
D_Fugitive	1B1b	Fugitive emission from solid fu		NA	NA	NA	NA	NA	NA	*Coal used for transformation [M*
D_Fugitive	1B1c	Other fugitive emissions from s		NA	NA	NA	NA	NA	NA	*Please specify*
D_Fugitive	1B2ai	Fugitive emissions oil: Explorat		NA	NA	NA	NA	NA	NA	*Crude oil produced [Mt]*
D_Fugitive	1B2aiv	Fugitive emissions oil: Refining		NA	NA	NA	NA	NA	NA	*Crude oil refined [Mt]*
D_Fugitive	1B2av	Distribution of oil products		NA	NA	NA	NA	NA	NA	*Oil consumed [Mt]*
D_Fugitive	1B2b	Fugitive emissions from natura		NA	NA	NA	NA	NA	NA	*Gas throughput [Mn3]*
D_Fugitive	1B2c	Venting and flaring (oil, gas, co		NA	NA	NA	NA	NA	NA	*Gas vented flared [TJ]*
D_Fugitive	1B2d	Other fugitive emission	(a)	NA	NA	NA	NA	NA	NA	

FI: 15.03.2017: 2015	NFR sectors to be reported			Activity Data (from 1990)						
				Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	*Other activity (specified)*	*Other Activity Units*
NFR Aggregation for	NFR Code	Longname	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		
B_Industry	2A1	Cement production		NA	NA	NA	NA	NA	NE	*Clinker produced [kt]*
B_Industry	2A2	Lime production		NA	NA	NA	NA	NA	NE	*Lime produced [kt]*
B_Industry	2A3	Glass production		NA	NA	NA	NA	NA	NA	*Glass produced [t]*
B_Industry	2C7c	Other metal production (please		NA	NA	NA	NA	NA	NA	*Please specify*
B_Industry	2C7d	Storage, handling and transpor		NA	NA	NA	NA	NA	NA	*Amount (kt)*
E_Solvents	2D3a	Domestic solvent use including		NA	NA	NA	NA	NA	NA	
E_Solvents	2D3b	Road paving with asphalt		NA	NA	NA	NA	NA	NA	
B_Industry	2D3c	Asphalt roofing		NA	NA	NA	NA	NA	NA	
B_Industry	2D3d	Coating applications		NA	NA	NA	NA	NA	NA	*Paint applied [kt]*
E_Solvents	2D3e	Degreasing		NA	NA	NA	NA	NA	NA	*Solvents used [kt]*
E_Solvents	2D3f	Dry cleaning		NA	NA	NA	NA	NA	NA	*Solvents used [kt]*
E_Solvents	2D3g	Chemical products		NA	NA	NA	NA	NA	NA	*NA*
E_Solvents	2D3h	Printing		NA	NA	NA	NA	NA	NA	*NA*
E_Solvents	2D3i	Other solvent use (please spec		NA	NA	NA	NA	NA	NA	
E_Solvents	2G	Other product use (please spec		NA	NA	NA	NA	NA	NA	*Please specify*
B_Industry	2H1	Pulp and paper industry		NA	NA	NA	NA	NA	NA	*Pulp production [kt]*
B_Industry	2H2	Food and beverages industry		NA	NA	NA	NA	NA	NA	*Bread, Wine, Beer, Spirits produ*
B_Industry	2H3	Other industrial processes (ple		NA	NA	NA	NA	NA	NA	
B_Industry	2I	Wood processing		NA	NA	NA	NA	NA	NA	*Please specify*
B_Industry	2J	Production of POPs		NO	NO	NO	NO	NO	NO	*NA*
B_Industry	2K	Consumption of POPs and hea		NA	NA	NA	NA	NA	NA	*NA*
B_Industry	2L	Other production, consumption		NA	NA	NA	NA	NA	NA	*NA*

FI: 15.03.2017: 2015	NFR sectors to be reported			Activity Data (from 1990)						
				Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	*Other activity (specified)*	*Other Activity Units*
NFR Aggregation for	NFR Code	Longname	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		
K_AgriLive	3B1a	Manure management - Dairy ca		NA	NA	NA	NA	NA	285,147	*Population size (1000 head)*
K_AgriLive	3B1b	Manure management - Non-da		NA	NA	NA	NA	NA	629,683	*Population size (1000 head)*
K_AgriLive	3B2	Manure management - Sheep		NA	NA	NA	NA	NA	155,236	*Population size (1000 head)*
K_AgriLive	3B3	Manure management - Swine		NA	NA	NA	NA	NA	882,198	*Population size (1000 head)*
K_AgriLive	3B4a	Manure management - Buffalo		NO	NO	NO	NO	NO	NO	*Population size (1000 head)*
K_AgriLive	3B4d	Manure management - Goats		NA	NA	NA	NA	NA	4,544	*Population size (1000 head)*
K_AgriLive	3B4e	Manure management - Horses		NA	NA	NA	NA	NA	74,2	*Population size (1000 head)*
K_AgriLive	3B4f	Manure management - Mules a		NO	NO	NO	NO	NO	NO	*Population size (1000 head)*
K_AgriLive	3B4gi	Manure mangement - Laying h		NA	NA	NA	NA	NA	3501,229	*Population size (1000 head)*
K_AgriLive	3B4gii	Manure mangement - Broilers		NA	NA	NA	NA	NA	6839,611	*Population size (1000 head)*
K_AgriLive	3B4giii	Manure mangement - Turkeys		NA	NA	NA	NA	NA	247,486	*Population size (1000 head)*
K_AgriLive	3B4giv	Manure management - Other p		NA	NA	NA	NA	NA	1258,836	*Population size (1000 head)*
K_AgriLive	3B4h	Manure management - Other a		NA	NA	NA	NA	NA	3388,599	*Population size (1000 head)*
L_AgriOthe	3Da1	Inorganic N-fertilizers (includes		NA	NA	NA	NA	NA	143479	*Use of inorganic fertilizers (kg N*
L_AgriOthe	3Da2a	Animal manure applied to soils		NA	NA	NA	NA	NA	NA	*NA*
L_AgriOthe	3Da2b	Sewage sludge applied to soil		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Da2c	Other organic fertilisers applied		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Da3	Urine and dung deposited by g		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Da4	Crop residues applied to soils		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Db	Indirect emissions from manag		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Dc	Farm-level agricultural operatio		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Dd	Off-farm storage, handling and		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3De	Cultivated crops	(b)	NA	NA	NA	NA	NA	NA	
L_AgriOthe	3Df	Use of pesticides		NA	NA	NA	NA	NA	NA	
L_AgriOthe	3F	Field burning of agricultural res		NA	NA	NA	NA	NA	29655947	kg/dm
L_AgriOthe	3I	Agriculture other (please specif		NO	NO	NO	NO	NO	NO	*NA*

FI: 15.03.2017: 2015	NFR sectors to be reported			Activity Data (from 1990)						
				Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	Other activity (specified)	Other Activity Units
NFR Aggregation for	NFR Code	Longname	Notes	TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		
J_Waste	5A	Biological treatment of waste -		NA	NA	NA	NA	NA	NA	Annual deposition of MSW at the
J_Waste	5B1	Biological treatment of waste -		NA	NA	NA	NA	NA	NA	
J_Waste	5B2	Biological treatment of waste -		NA	NA	NA	NA	NA	NA	
J_Waste	5C1a	Municipal waste incinera	(c)	16,65	2543,25	7,2	NO	NA	NA	MSW incinerated [kt]
J_Waste	5C1bi	Industrial waste incinera	(c)	179,653884	3180,1175	NO	66,5292	NA	NA	Waste incinerated [kt]
J_Waste	5C1bii	Hazardous waste incin	(c)	NA	NA	NA	NA	NA	NA	Waste incinerated [kt]
J_Waste	5C1biii	Clinical waste incinerat	(c)	NA	NA	NA	NA	NA	NA	Waste incinerated [kt]
J_Waste	5C1biv	Sewage sludge incinera	(c)	NA	NA	NA	NA	NA	NA	
J_Waste	5C1bv	Cremation	(c)	NA	NA	NA	NA	NA	NA	Incineration of corpses [Numbe
J_Waste	5C1bvi	Other waste incineratio	(c)	NA	NA	NA	NA	NA	NA	
J_Waste	5C2	Open burning of waste		NA	NA	NA	NA	NA	NA	
J_Waste	5D1	Domestic wastewater handling		NA	NA	NA	NA	NA	NA	Total organic product [Gg DC/yr
J_Waste	5D2	Industrial wastewater handling		NA	NA	NA	NA	NA	NA	Total organic product [Gg DC/yr
J_Waste	5D3	Other wastewater handling		NA	NA	NA	NA	NA	NA	Total organic product [Gg DC/yr
J_Waste	5E	Other waste (please sp	(d)	NA	NA	NA	NA	NA	NA	Please specify
M_Other	6A	Other (included in national total		NO	NO	NO	NO	NO	NO	NA
	NATIONAL	**National total for the entire ter**		**307699,600**	**167698,265**	**82856,542**	**344741,721**	**961,339**	**NA**	
	ADJUSTME	Sum of adjustments (negative value) from Annex VII								NA
	NATIONAL	**National total for comp**	(e)							NA
'MEMO' ITEMS - NOT TO BE INCLUDED IN NATIONAL TOTALS										
O_AviCruis	1A3ai(ii)	International aviation cruise (civ		24751,95453						TJ NCV
O_AviCruis	1A3aii(ii)	Domestic aviation cruise (civil)		1878,910865						TJ NCV
P_IntShipp	1A3di(i)	International maritime navigation								TJ NCV
z_Memo	1A5c	Multilateral operations								
z_Memo	1A3	Transport (fuel used)								
z_Memo	6B	Other not included in national total of the entire territory (please specify in the IIR)								NA
N_Natural	11A	Volcanoes								Please specify
N_Natural	11B	Forest fires								Area of forest burned [ha]
N_Natural	11C	Other natural emissions (please specify in the IIR)								

Annex 2

Implied emission factor tables for fuel combustion in 2015

NOx Implied emission factors in Finnish air pollutant inventory for 2015

2015	NOx	1A1a	ANIMAL-BASED FUELS	0,093205023	t/TJ
2015	NOx	1A1a	BARK	0,093851091	t/TJ
2015	NOx	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0,070000000	t/TJ
2015	NOx	1A1a	CHIPS FROM ROUNDWOOD	0,091750487	t/TJ
2015	NOx	1A1a	COAL (S=1.0%)	0,146210391	t/TJ
2015	NOx	1A1a	DEINKING WASTE	0,129669525	t/TJ
2015	NOx	1A1a	DEMOLITION WOOD	0,092754236	t/TJ
2015	NOx	1A1a	DIESEL OIL (S=001%)	2,000000000	t/TJ
2015	NOx	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,100000000	t/TJ
2015	NOx	1A1a	FOREST RESIDUE CHIPS	0,089549757	t/TJ
2015	NOx	1A1a	GASOIL (FOR NON-ROAD USE)	0,361121833	t/TJ
2015	NOx	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,058064211	t/TJ
2015	NOx	1A1a	HEAVY FUEL OIL (S<1%)	0,173986952	t/TJ
2015	NOx	1A1a	HYDROGEN	0,203311940	t/TJ
2015	NOx	1A1a	INDUSTRIAL BIOGAS	0,141348357	t/TJ
2015	NOx	1A1a	INDUSTRIAL WASTE	0,089874094	t/TJ
2015	NOx	1A1a	LANDFILL GAS	0,124012097	t/TJ
2015	NOx	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,159439818	t/TJ
2015	NOx	1A1a	LIQUID BIOFUELS	0,087651197	t/TJ
2015	NOx	1A1a	LIQUID GAS	0,684298300	t/TJ
2015	NOx	1A1a	MILLED PEAT	0,093420322	t/TJ
2015	NOx	1A1a	MUNICIPAL WASTE - unsorted	0,089829814	t/TJ
2015	NOx	1A1a	NATURAL GAS	0,051293339	t/TJ
2015	NOx	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,103396273	t/TJ
2015	NOx	1A1a	OTHER FOSSIL GAS	0,071902947	t/TJ
2015	NOx	1A1a	OTHER FOSSIL LIQUID	0,089293656	t/TJ
2015	NOx	1A1a	OTHER FOSSIL SOLID	0,093500870	t/TJ
2015	NOx	1A1a	OTHER NON-FOSSIL GAS	0,104697698	t/TJ
2015	NOx	1A1a	OTHER NON-FOSSIL SOLID	0,135037686	t/TJ
2015	NOx	1A1a	OTHER WOOD RESIDUE	0,123476284	t/TJ
2015	NOx	1A1a	OXYGEN STEEL FURNACE GAS	0,075064578	t/TJ
2015	NOx	1A1a	PEAT PELLETS AND BRIQUETTES	0,109587447	t/TJ
2015	NOx	1A1a	RECOVERED FUEL (REF 2)	0,086980876	t/TJ
2015	NOx	1A1a	RECOVERED WOOD	0,102724616	t/TJ
2015	NOx	1A1a	RECYCLED AND WASTE OILS	0,067379633	t/TJ
2015	NOx	1A1a	SALT TREATED WOOD	0,025959773	t/TJ
2015	NOx	1A1a	SAWDUST AND CUTTER CHIPS	0,083817174	t/TJ
2015	NOx	1A1a	SOD PEAT	0,117215964	t/TJ
2015	NOx	1A1a	TALL PITCH AND OIL	0,113225750	t/TJ
2015	NOx	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,081476465	t/TJ

2015	NOx	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,095038227	t/TJ
2015	NOx	1A1a	WOOD RESIDUE CHIPS	0,084863035	t/TJ
2015	NOx	1A1b	DIESEL OIL (S=001%)	0,058117787	t/TJ
2015	NOx	1A1b	GASOIL (FOR NON-ROAD USE)	0,074865993	t/TJ
2015	NOx	1A1b	HEAVY FUEL OIL (S<1%)	0,074912647	t/TJ
2015	NOx	1A1b	LIQUID GAS	0,070039941	t/TJ
2015	NOx	1A1b	NATURAL GAS	0,052840342	t/TJ
2015	NOx	1A1b	OTHER FOSSIL GAS	0,060660341	t/TJ
2015	NOx	1A1b	OTHER HEAVY DISTILLATES	0,074979431	t/TJ
2015	NOx	1A1b	OTHER WASTE	0,037469756	t/TJ
2015	NOx	1A1b	PETROLEUM COKE	0,032799696	t/TJ
2015	NOx	1A1b	REFINERY GAS	0,055297182	t/TJ
2015	NOx	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,008966245	t/TJ
2015	NOx	1A2a	BLAST FURNACE GAS	0,038129591	t/TJ
2015	NOx	1A2a	COKE (S=1.0%)	0,710277739	t/TJ
2015	NOx	1A2a	COKE OVEN GAS	0,165164393	t/TJ
2015	NOx	1A2a	FOREST RESIDUE CHIPS	0,136020151	t/TJ
2015	NOx	1A2a	GASOIL (FOR NON-ROAD USE)	0,118708594	t/TJ
2015	NOx	1A2a	HEAVY FUEL OIL (S<1%)	0,053277848	t/TJ
2015	NOx	1A2a	HYDROGEN	0,070000000	t/TJ
2015	NOx	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,087982189	t/TJ
2015	NOx	1A2a	LIQUID GAS	0,223184489	t/TJ
2015	NOx	1A2a	NATURAL GAS	0,174377418	t/TJ
2015	NOx	1A2a	OTHER FOSSIL LIQUID	0,070000000	t/TJ
2015	NOx	1A2a	OTHER FOSSIL SOLID	0,085950413	t/TJ
2015	NOx	1A2a	OXYGEN STEEL FURNACE GAS	0,144601521	t/TJ
2015	NOx	1A2a	WOOD RESIDUE CHIPS	0,100000000	t/TJ
2015	NOx	1A2b	CHIPS FROM ROUNDWOOD	0,100000000	t/TJ
2015	NOx	1A2b	COAL (S=1.0%)	0,100000000	t/TJ
2015	NOx	1A2b	COKE (S=1.0%)	0,100000000	t/TJ
2015	NOx	1A2b	DIESEL OIL (S=001%)	0,100000000	t/TJ
2015	NOx	1A2b	GASOIL (FOR NON-ROAD USE)	0,100000000	t/TJ
2015	NOx	1A2b	HEAVY FUEL OIL (S<1%)	0,138203737	t/TJ
2015	NOx	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,112367083	t/TJ
2015	NOx	1A2b	LIQUID GAS	0,080978710	t/TJ
2015	NOx	1A2b	NATURAL GAS	0,081859201	t/TJ
2015	NOx	1A2b	OTHER FOSSIL SOLID	0,100000000	t/TJ
2015	NOx	1A2b	RECYCLED AND WASTE OILS	0,100000000	t/TJ
2015	NOx	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,100000000	t/TJ
2015	NOx	1A2c	COAL (S=1.0%)	0,088540153	t/TJ
2015	NOx	1A2c	DIESEL OIL (S=001%)	0,079437762	t/TJ
2015	NOx	1A2c	GASIFIED WASTE	0,083102493	t/TJ
2015	NOx	1A2c	GASOIL (FOR NON-ROAD USE)	0,100000000	t/TJ
2015	NOx	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,339787633	t/TJ
2015	NOx	1A2c	HEAVY FUEL OIL (S<1%)	0,571764320	t/TJ

2015	NOx	1A2c	HYDROGEN	0,184537815	t/TJ
2015	NOx	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,310622402	t/TJ
2015	NOx	1A2c	LIQUID GAS	0,073852195	t/TJ
2015	NOx	1A2c	NATURAL GAS	0,151284215	t/TJ
2015	NOx	1A2c	OTHER FOSSIL GAS	0,051607915	t/TJ
2015	NOx	1A2c	OTHER FOSSIL LIQUID	0,051607915	t/TJ
2015	NOx	1A2c	OTHER MEDIUM DISTILLATES	0,051607915	t/TJ
2015	NOx	1A2c	PETROLEUM COKE	0,029593169	t/TJ
2015	NOx	1A2c	REFINERY GAS	0,031358946	t/TJ
2015	NOx	1A2c	TALL PITCH AND OIL	0,042052145	t/TJ
2015	NOx	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,014955097	t/TJ
2015	NOx	1A2d	ANIMAL-BASED FUELS	0,081657856	t/TJ
2015	NOx	1A2d	BARK	0,098356481	t/TJ
2015	NOx	1A2d	BLACK LIQUOR	0,066489119	t/TJ
2015	NOx	1A2d	CHIPS FROM ROUNDWOOD	0,106385418	t/TJ
2015	NOx	1A2d	COAL (S=1.0%)	0,085133953	t/TJ
2015	NOx	1A2d	DEMOLITION WOOD	0,081657856	t/TJ
2015	NOx	1A2d	FOREST RESIDUE CHIPS	0,098544029	t/TJ
2015	NOx	1A2d	GASOIL (FOR NON-ROAD USE)	0,256482079	t/TJ
2015	NOx	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,198965960	t/TJ
2015	NOx	1A2d	HEAVY FUEL OIL (S<1%)	0,183175789	t/TJ
2015	NOx	1A2d	HYDROGEN	0,150412584	t/TJ
2015	NOx	1A2d	INDUSTRIAL BIOGAS	0,378890621	t/TJ
2015	NOx	1A2d	INDUSTRIAL WASTE	0,101977352	t/TJ
2015	NOx	1A2d	LANDFILL GAS	0,089126027	t/TJ
2015	NOx	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,786178904	t/TJ
2015	NOx	1A2d	LIQUID BIOFUELS	0,051184148	t/TJ
2015	NOx	1A2d	LIQUID GAS	0,102388702	t/TJ
2015	NOx	1A2d	METHANOL	0,221761821	t/TJ
2015	NOx	1A2d	MILLED PEAT	0,117688671	t/TJ
2015	NOx	1A2d	NATURAL GAS	0,079245370	t/TJ
2015	NOx	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,116273141	t/TJ
2015	NOx	1A2d	OTHER NON-FOSSIL SOLID	0,081827603	t/TJ
2015	NOx	1A2d	OTHER WASTE	0,089126027	t/TJ
2015	NOx	1A2d	OTHER WOOD RESIDUE	0,143644186	t/TJ
2015	NOx	1A2d	PLASTIC WASTE	0,171572241	t/TJ
2015	NOx	1A2d	RECOVERED FUEL (REF 2)	0,092724704	t/TJ
2015	NOx	1A2d	RECOVERED WOOD	0,078011689	t/TJ
2015	NOx	1A2d	RECYCLED AND WASTE OILS	0,081657856	t/TJ
2015	NOx	1A2d	SALT TREATED WOOD	0,081657856	t/TJ
2015	NOx	1A2d	SAWDUST AND CUTTER CHIPS	0,109431865	t/TJ
2015	NOx	1A2d	SOD PEAT	0,096292943	t/TJ
2015	NOx	1A2d	SULPHUR CONCENTRATE	0,164198604	t/TJ
2015	NOx	1A2d	TALL PITCH AND OIL	0,083129208	t/TJ
2015	NOx	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,106877666	t/TJ

2015	NOx	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,100000000	t/TJ
2015	NOx	1A2d	WOOD RESIDUE CHIPS	0,092735685	t/TJ
2015	NOx	1A2e	BARK	0,120000000	t/TJ
2015	NOx	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0,070000000	t/TJ
2015	NOx	1A2e	CHIPS FROM ROUNDWOOD	0,209451635	t/TJ
2015	NOx	1A2e	COKE (S=1.0%)	0,170000000	t/TJ
2015	NOx	1A2e	DIESEL OIL (S=001%)	0,070000000	t/TJ
2015	NOx	1A2e	FOREST RESIDUE CHIPS	0,209451635	t/TJ
2015	NOx	1A2e	GASOIL (FOR NON-ROAD USE)	0,200975308	t/TJ
2015	NOx	1A2e	HEAVY FUEL OIL (S<1%)	0,264571633	t/TJ
2015	NOx	1A2e	INDUSTRIAL BIOGAS	0,034695646	t/TJ
2015	NOx	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,081965250	t/TJ
2015	NOx	1A2e	LIQUID GAS	0,058280447	t/TJ
2015	NOx	1A2e	MILLED PEAT	0,187407079	t/TJ
2015	NOx	1A2e	NATURAL GAS	0,052176273	t/TJ
2015	NOx	1A2e	SAWDUST AND CUTTER CHIPS	0,173044978	t/TJ
2015	NOx	1A2e	WOOD RESIDUE CHIPS	0,120000000	t/TJ
2015	NOx	1A2f	CHIPS FROM ROUNDWOOD	0,047153990	t/TJ
2015	NOx	1A2f	COAL (S=1.0%)	0,266619721	t/TJ
2015	NOx	1A2f	COKE (S=1.0%)	0,145420569	t/TJ
2015	NOx	1A2f	COKE OVEN GAS	0,034001504	t/TJ
2015	NOx	1A2f	DIESEL OIL (S=001%)	0,275895049	t/TJ
2015	NOx	1A2f	FOREST RESIDUE CHIPS	0,120070573	t/TJ
2015	NOx	1A2f	GASOIL (FOR NON-ROAD USE)	0,214580748	t/TJ
2015	NOx	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,100000000	t/TJ
2015	NOx	1A2f	HEAVY FUEL OIL (S<1%)	0,097629976	t/TJ
2015	NOx	1A2f	INDUSTRIAL BIOGAS	0,402240559	t/TJ
2015	NOx	1A2f	LANDFILL GAS	0,114064598	t/TJ
2015	NOx	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,138704676	t/TJ
2015	NOx	1A2f	LIQUID GAS	0,102821237	t/TJ
2015	NOx	1A2f	NATURAL GAS	0,215311523	t/TJ
2015	NOx	1A2f	OXYGEN STEEL FURNACE GAS	0,025817201	t/TJ
2015	NOx	1A2f	PETROLEUM COKE	0,467094923	t/TJ
2015	NOx	1A2f	PLASTIC WASTE	0,536589340	t/TJ
2015	NOx	1A2f	RECOVERED FUEL (REF 2)	0,382292484	t/TJ
2015	NOx	1A2f	RECOVERED WOOD	0,120070573	t/TJ
2015	NOx	1A2f	RECYCLED AND WASTE OILS	0,397637062	t/TJ
2015	NOx	1A2f	RUBBER WASTE	0,536589340	t/TJ
2015	NOx	1A2f	SAWDUST AND CUTTER CHIPS	0,043450285	t/TJ
2015	NOx	1A2gvii	DIESEL OIL (S=001%)	0,509146235	t/TJ
2015	NOx	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,253838914	t/TJ
2015	NOx	1A2gviii	ANIMAL-BASED FUELS	0,203793680	t/TJ
2015	NOx	1A2gviii	BARK	0,176638274	t/TJ
2015	NOx	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0,176638274	t/TJ
2015	NOx	1A2gviii	CHIPS FROM ROUNDWOOD	0,107506061	t/TJ

2015	NOx	1A2gviii	COAL (S=1.0%)	0,158996655	t/TJ
2015	NOx	1A2gviii	DIESEL OIL (S=001%)	0,077694905	t/TJ
2015	NOx	1A2gviii	FOREST RESIDUE CHIPS	0,086092974	t/TJ
2015	NOx	1A2gviii	FOREST WOODFUEL	0,100000000	t/TJ
2015	NOx	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,949988736	t/TJ
2015	NOx	1A2gviii	HEAVY FUEL OIL (S<1%)	0,088450079	t/TJ
2015	NOx	1A2gviii	INDUSTRIAL BIOGAS	0,070000000	t/TJ
2015	NOx	1A2gviii	LANDFILL GAS	0,050000000	t/TJ
2015	NOx	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,091950553	t/TJ
2015	NOx	1A2gviii	LIQUID GAS	0,053910607	t/TJ
2015	NOx	1A2gviii	MILLED PEAT	0,140270382	t/TJ
2015	NOx	1A2gviii	NATURAL GAS	0,060013720	t/TJ
2015	NOx	1A2gviii	OTHER NON-FOSSIL GAS	0,072116308	t/TJ
2015	NOx	1A2gviii	OTHER NON-FOSSIL SOLID	0,124762086	t/TJ
2015	NOx	1A2gviii	OTHER PETROLEUM PRODUCTS	0,080000000	t/TJ
2015	NOx	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,106109325	t/TJ
2015	NOx	1A2gviii	RECOVERED FUEL (REF 1)	0,063424947	t/TJ
2015	NOx	1A2gviii	RECYCLED AND WASTE OILS	0,161281971	t/TJ
2015	NOx	1A2gviii	SAWDUST AND CUTTER CHIPS	0,162213626	t/TJ
2015	NOx	1A2gviii	SOD PEAT	0,199697716	t/TJ
2015	NOx	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,138347615	t/TJ
2015	NOx	1A2gviii	WOOD RESIDUE CHIPS	0,079009009	t/TJ
2015	NOx	1A3ai(i)	KEROSENE (JET FUEL)	0,312785294	t/TJ
2015	NOx	1A3aii(i)	AVIATION GASOLINE	0,079563484	t/TJ
2015	NOx	1A3aii(i)	KEROSENE (JET FUEL)	0,278585954	t/TJ
2015	NOx	1A3bi	DIESEL OIL (S=001%)	0,139915503	t/TJ
2015	NOx	1A3bi	MOTOR GASOLINE (S=0.001%)	0,103715708	t/TJ
2015	NOx	1A3bi	NATURAL GAS	0,011997081	t/TJ
2015	NOx	1A3bii	DIESEL OIL (S=001%)	0,335416781	t/TJ
2015	NOx	1A3bii	MOTOR GASOLINE (S=0.001%)	0,923499880	t/TJ
2015	NOx	1A3bii	NATURAL GAS	0,010864174	t/TJ
2015	NOx	1A3biii	DIESEL OIL (S=001%)	0,360942281	t/TJ
2015	NOx	1A3biii	NATURAL GAS	0,199515462	t/TJ
2015	NOx	1A3biv	DIESEL OIL (S=001%)	0,323350281	t/TJ
2015	NOx	1A3biv	MOTOR GASOLINE (S=0.001%)	0,129840040	t/TJ
2015	NOx	1A3c	GASOIL (FOR NON-ROAD USE)	1,640614179	t/TJ
2015	NOx	1A3dii	DIESEL OIL (S=001%)	1,278466493	t/TJ
2015	NOx	1A3dii	GASOIL (FOR NON-ROAD USE)	1,462173325	t/TJ
2015	NOx	1A3dii	HEAVY FUEL OIL (normal, S>1%)	1,405821248	t/TJ
2015	NOx	1A3dii	MOTOR GASOLINE (S=0.001%)	0,390872493	t/TJ
2015	NOx	1A3ei	NATURAL GAS	0,064984015	t/TJ
2015	NOx	1A4ai	BIOGAS FROM WASTEWATER TREATMENT	0,138253086	t/TJ
2015	NOx	1A4ai	CHIPS FROM ROUNDWOOD	0,109899900	t/TJ
2015	NOx	1A4ai	FOREST RESIDUE CHIPS	0,100065580	t/TJ
2015	NOx	1A4ai	FOREST WOODFUEL	0,080000000	t/TJ

2015	NOx	1A4ai	GASOIL (FOR NON-ROAD USE)	0,139122898	t/TJ
2015	NOx	1A4ai	HEAVY FUEL OIL (S<1%)	0,092180311	t/TJ
2015	NOx	1A4ai	LANDFILL GAS	0,006544944	t/TJ
2015	NOx	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,085855316	t/TJ
2015	NOx	1A4ai	LIQUID GAS	0,163857155	t/TJ
2015	NOx	1A4ai	MILLED PEAT	0,160000000	t/TJ
2015	NOx	1A4ai	NATURAL GAS	0,048992226	t/TJ
2015	NOx	1A4ai	SAWDUST AND CUTTER CHIPS	0,106160820	t/TJ
2015	NOx	1A4ai	SOD PEAT	0,105402070	t/TJ
2015	NOx	1A4ai	WOOD RESIDUE CHIPS	0,143003483	t/TJ
2015	NOx	1A4aii	DIESEL OIL (S=001%)	0,559695455	t/TJ
2015	NOx	1A4aii	LIQUID GAS	0,512337493	t/TJ
2015	NOx	1A4aii	MOTOR GASOLINE (S=0.001%)	0,067112923	t/TJ
2015	NOx	1A4bi	COAL (S=1.0%)	0,054545455	t/TJ
2015	NOx	1A4bi	FOREST WOODFUEL	0,080000000	t/TJ
2015	NOx	1A4bi	HEAVY FUEL OIL (S<1%)	0,095723910	t/TJ
2015	NOx	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,080000003	t/TJ
2015	NOx	1A4bi	LIQUID GAS	0,050000000	t/TJ
2015	NOx	1A4bi	NATURAL GAS	0,050000000	t/TJ
2015	NOx	1A4bi	PARAFFIN	0,080000000	t/TJ
2015	NOx	1A4bi	SOD PEAT	0,100000000	t/TJ
2015	NOx	1A4bii	DIESEL OIL (S=001%)	0,929026407	t/TJ
2015	NOx	1A4bii	MOTOR GASOLINE (S=0.001%)	0,251624054	t/TJ
2015	NOx	1A4ci	FOREST WOODFUEL	0,080000000	t/TJ
2015	NOx	1A4ci	HEAVY FUEL OIL (S<1%)	0,080000000	t/TJ
2015	NOx	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,080000000	t/TJ
2015	NOx	1A4ci	LIQUID GAS	0,050000000	t/TJ
2015	NOx	1A4ci	NATURAL GAS	0,050000000	t/TJ
2015	NOx	1A4ci	SOD PEAT	0,100000000	t/TJ
2015	NOx	1A4cii	DIESEL OIL (S=001%)	0,401030287	t/TJ
2015	NOx	1A4cii	MOTOR GASOLINE (S=0.001%)	0,068009510	t/TJ
2015	NOx	1A4ciii	GASOIL (FOR NON-ROAD USE)	1,438875878	t/TJ
2015	NOx	1A5a	BARK	0,145093111	t/TJ
2015	NOx	1A5a	FOREST RESIDUE CHIPS	0,163786185	t/TJ
2015	NOx	1A5a	HEAVY FUEL OIL (S<1%)	0,145093111	t/TJ
2015	NOx	1A5a	LIGHT FUEL OIL (S=0.0915%)	1375,789612384	t/TJ
2015	NOx	1A5a	SOD PEAT	0,148729680	t/TJ
2015	NOx	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,145093111	t/TJ
2015	NOx	1A5a	WOOD RESIDUE CHIPS	0,171977744	t/TJ
2015	NOx	5C1a	INDUSTRIAL WASTE	0,053934525	t/TJ
2015	NOx	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,106810201	t/TJ
2015	NOx	5C1a	MUNICIPAL WASTE - unsorted	0,106810201	t/TJ
2015	NOx	5C1a	NATURAL GAS	0,053934525	t/TJ
2015	NOx	5C1a	RECOVERED FUEL (REF 3)	0,053934525	t/TJ
2015	NOx	5C1bi	DEMOLITION WOOD	0,085427756	t/TJ

2015	NOx	5C1bi	FOREST RESIDUE CHIPS	0,085427756	t/TJ
2015	NOx	5C1bi	HAZARDOUS WASTE	0,072380631	t/TJ
2015	NOx	5C1bi	HEAVY FUEL OIL (S<1%)	0,072380631	t/TJ
2015	NOx	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,122132918	t/TJ
2015	NOx	5C1bi	LIQUID GAS	0,085427756	t/TJ
2015	NOx	5C1bi	MUNICIPAL WASTE - unsorted	0,089432993	t/TJ
2015	NOx	5C1bi	RECOVERED FUEL (REF 2)	0,085427756	t/TJ
2015	NOx	5C1bi	RECOVERED WOOD	0,085427756	t/TJ
2015	NOx	5C1bi	RECYCLED AND WASTE OILS	0,072380631	t/TJ

NMVOC Implied emission factors in Finnish air pollutant inventory for 2015

2015	NMVOC	1A1a	ANIMAL-BASED FUELS	0,002455142	t/TJ
2015	NMVOC	1A1a	BARK	0,006797441	t/TJ
2015	NMVOC	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0,001000000	t/TJ
2015	NMVOC	1A1a	CHIPS FROM ROUNDWOOD	0,005321873	t/TJ
2015	NMVOC	1A1a	COAL (S=1.0%)	0,001659916	t/TJ
2015	NMVOC	1A1a	DEINKING WASTE	0,003000000	t/TJ
2015	NMVOC	1A1a	DEMOLITION WOOD	0,003000000	t/TJ
2015	NMVOC	1A1a	DIESEL OIL (S=001%)	0,004000000	t/TJ
2015	NMVOC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,050000000	t/TJ
2015	NMVOC	1A1a	FOREST RESIDUE CHIPS	0,004037166	t/TJ
2015	NMVOC	1A1a	GASOIL (FOR NON-ROAD USE)	0,001842517	t/TJ
2015	NMVOC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,002901421	t/TJ
2015	NMVOC	1A1a	HEAVY FUEL OIL (S<1%)	0,001256413	t/TJ
2015	NMVOC	1A1a	HYDROGEN	0,001000000	t/TJ
2015	NMVOC	1A1a	INDUSTRIAL BIOGAS	0,001001020	t/TJ
2015	NMVOC	1A1a	INDUSTRIAL WASTE	0,003782738	t/TJ
2015	NMVOC	1A1a	LANDFILL GAS	0,017636391	t/TJ
2015	NMVOC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,002040629	t/TJ
2015	NMVOC	1A1a	LIQUID BIOFUELS	0,002862862	t/TJ
2015	NMVOC	1A1a	LIQUID GAS	0,001077801	t/TJ
2015	NMVOC	1A1a	MILLED PEAT	0,003197690	t/TJ
2015	NMVOC	1A1a	MUNICIPAL WASTE - unsorted	0,007735571	t/TJ
2015	NMVOC	1A1a	NATURAL GAS	0,001771540	t/TJ
2015	NMVOC	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,003224696	t/TJ
2015	NMVOC	1A1a	OTHER FOSSIL GAS	0,001910378	t/TJ
2015	NMVOC	1A1a	OTHER FOSSIL LIQUID	0,003000000	t/TJ
2015	NMVOC	1A1a	OTHER FOSSIL SOLID	0,003000000	t/TJ
2015	NMVOC	1A1a	OTHER NON-FOSSIL GAS	0,003506954	t/TJ
2015	NMVOC	1A1a	OTHER NON-FOSSIL SOLID	0,009726265	t/TJ
2015	NMVOC	1A1a	OTHER WOOD RESIDUE	0,009146014	t/TJ
2015	NMVOC	1A1a	OXYGEN STEEL FURNACE GAS	0,003000000	t/TJ
2015	NMVOC	1A1a	PEAT PELLETS AND BRIQUETTES	0,002094396	t/TJ
2015	NMVOC	1A1a	RECOVERED FUEL (REF 2)	0,003009245	t/TJ
2015	NMVOC	1A1a	RECOVERED WOOD	0,004266135	t/TJ
2015	NMVOC	1A1a	RECYCLED AND WASTE OILS	0,003000000	t/TJ
2015	NMVOC	1A1a	SALT TREATED WOOD	0,003000000	t/TJ
2015	NMVOC	1A1a	SAWDUST AND CUTTER CHIPS	0,005398356	t/TJ
2015	NMVOC	1A1a	SOD PEAT	0,020758302	t/TJ
2015	NMVOC	1A1a	TALL PITCH AND OIL	0,004952312	t/TJ
2015	NMVOC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,005100092	t/TJ
2015	NMVOC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,011199060	t/TJ

2015	NMVOC	1A1a	WOOD RESIDUE CHIPS	0,013522885	t/TJ
2015	NMVOC	1A1b	DIESEL OIL (S=001%)	0,001000000	t/TJ
2015	NMVOC	1A1b	GASOIL (FOR NON-ROAD USE)	0,004569747	t/TJ
2015	NMVOC	1A1b	HEAVY FUEL OIL (S<1%)	0,004579691	t/TJ
2015	NMVOC	1A1b	LIQUID GAS	0,001028827	t/TJ
2015	NMVOC	1A1b	NATURAL GAS	0,001671756	t/TJ
2015	NMVOC	1A1b	OTHER FOSSIL GAS	0,001000000	t/TJ
2015	NMVOC	1A1b	OTHER HEAVY DISTILLATES	0,004593926	t/TJ
2015	NMVOC	1A1b	OTHER WASTE	0,001000000	t/TJ
2015	NMVOC	1A1b	PETROLEUM COKE	0,003409207	t/TJ
2015	NMVOC	1A1b	REFINERY GAS	0,001457573	t/TJ
2015	NMVOC	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,050000000	t/TJ
2015	NMVOC	1A2a	BLAST FURNACE GAS	0,001000000	t/TJ
2015	NMVOC	1A2a	COKE (S=1.0%)	0,002780017	t/TJ
2015	NMVOC	1A2a	COKE OVEN GAS	0,001000000	t/TJ
2015	NMVOC	1A2a	FOREST RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A2a	GASOIL (FOR NON-ROAD USE)	0,001008337	t/TJ
2015	NMVOC	1A2a	HEAVY FUEL OIL (S<1%)	0,001000000	t/TJ
2015	NMVOC	1A2a	HYDROGEN	0,001000000	t/TJ
2015	NMVOC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,001056708	t/TJ
2015	NMVOC	1A2a	LIQUID GAS	0,001020667	t/TJ
2015	NMVOC	1A2a	NATURAL GAS	0,001070596	t/TJ
2015	NMVOC	1A2a	OTHER FOSSIL LIQUID	0,001000000	t/TJ
2015	NMVOC	1A2a	OTHER FOSSIL SOLID	0,001000000	t/TJ
2015	NMVOC	1A2a	OXYGEN STEEL FURNACE GAS	0,001205254	t/TJ
2015	NMVOC	1A2a	WOOD RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A2b	CHIPS FROM ROUNDWOOD	0,200000000	t/TJ
2015	NMVOC	1A2b	COAL (S=1.0%)	0,001000000	t/TJ
2015	NMVOC	1A2b	COKE (S=1.0%)	0,001000000	t/TJ
2015	NMVOC	1A2b	DIESEL OIL (S=001%)	0,200000000	t/TJ
2015	NMVOC	1A2b	GASOIL (FOR NON-ROAD USE)	0,001000000	t/TJ
2015	NMVOC	1A2b	HEAVY FUEL OIL (S<1%)	0,000964599	t/TJ
2015	NMVOC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,001128656	t/TJ
2015	NMVOC	1A2b	LIQUID GAS	0,001699892	t/TJ
2015	NMVOC	1A2b	NATURAL GAS	0,001000000	t/TJ
2015	NMVOC	1A2b	OTHER FOSSIL SOLID	0,001000000	t/TJ
2015	NMVOC	1A2b	RECYCLED AND WASTE OILS	0,001000000	t/TJ
2015	NMVOC	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,050000000	t/TJ
2015	NMVOC	1A2c	COAL (S=1.0%)	0,001000000	t/TJ
2015	NMVOC	1A2c	DIESEL OIL (S=001%)	0,001000000	t/TJ
2015	NMVOC	1A2c	GASIFIED WASTE	0,001000000	t/TJ
2015	NMVOC	1A2c	GASOIL (FOR NON-ROAD USE)	0,001000000	t/TJ
2015	NMVOC	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,001000000	t/TJ
2015	NMVOC	1A2c	HEAVY FUEL OIL (S<1%)	0,000998800	t/TJ
2015	NMVOC	1A2c	HYDROGEN	0,001000000	t/TJ

2015	NMVOC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,001312411	t/TJ
2015	NMVOC	1A2c	LIQUID GAS	0,019978454	t/TJ
2015	NMVOC	1A2c	NATURAL GAS	0,001000000	t/TJ
2015	NMVOC	1A2c	OTHER FOSSIL GAS	0,001000000	t/TJ
2015	NMVOC	1A2c	OTHER FOSSIL LIQUID	0,001000000	t/TJ
2015	NMVOC	1A2c	OTHER MEDIUM DISTILLATES	0,001000000	t/TJ
2015	NMVOC	1A2c	PETROLEUM COKE	0,001000000	t/TJ
2015	NMVOC	1A2c	REFINERY GAS	0,001000000	t/TJ
2015	NMVOC	1A2c	TALL PITCH AND OIL	0,001000000	t/TJ
2015	NMVOC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,046190349	t/TJ
2015	NMVOC	1A2d	ANIMAL-BASED FUELS	0,003000000	t/TJ
2015	NMVOC	1A2d	BARK	0,004998306	t/TJ
2015	NMVOC	1A2d	BLACK LIQUOR	0,000904797	t/TJ
2015	NMVOC	1A2d	CHIPS FROM ROUNDWOOD	0,005375739	t/TJ
2015	NMVOC	1A2d	COAL (S=1.0%)	0,003000000	t/TJ
2015	NMVOC	1A2d	DEMOLITION WOOD	0,003000000	t/TJ
2015	NMVOC	1A2d	FOREST RESIDUE CHIPS	0,002940640	t/TJ
2015	NMVOC	1A2d	GASOIL (FOR NON-ROAD USE)	0,002473009	t/TJ
2015	NMVOC	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,001037638	t/TJ
2015	NMVOC	1A2d	HEAVY FUEL OIL (S<1%)	0,001402662	t/TJ
2015	NMVOC	1A2d	HYDROGEN	0,001000000	t/TJ
2015	NMVOC	1A2d	INDUSTRIAL BIOGAS	0,001000000	t/TJ
2015	NMVOC	1A2d	INDUSTRIAL WASTE	0,004000000	t/TJ
2015	NMVOC	1A2d	LANDFILL GAS	0,003000000	t/TJ
2015	NMVOC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,009401145	t/TJ
2015	NMVOC	1A2d	LIQUID BIOFUELS	0,001000000	t/TJ
2015	NMVOC	1A2d	LIQUID GAS	0,001000522	t/TJ
2015	NMVOC	1A2d	METHANOL	0,001720885	t/TJ
2015	NMVOC	1A2d	MILLED PEAT	0,002797084	t/TJ
2015	NMVOC	1A2d	NATURAL GAS	0,001017034	t/TJ
2015	NMVOC	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,003694976	t/TJ
2015	NMVOC	1A2d	OTHER NON-FOSSIL SOLID	0,003000000	t/TJ
2015	NMVOC	1A2d	OTHER WASTE	0,003000000	t/TJ
2015	NMVOC	1A2d	OTHER WOOD RESIDUE	0,018771774	t/TJ
2015	NMVOC	1A2d	PLASTIC WASTE	0,009966848	t/TJ
2015	NMVOC	1A2d	RECOVERED FUEL (REF 2)	0,004107991	t/TJ
2015	NMVOC	1A2d	RECOVERED WOOD	0,003000000	t/TJ
2015	NMVOC	1A2d	RECYCLED AND WASTE OILS	0,003000000	t/TJ
2015	NMVOC	1A2d	SALT TREATED WOOD	0,003000000	t/TJ
2015	NMVOC	1A2d	SAWDUST AND CUTTER CHIPS	0,010654287	t/TJ
2015	NMVOC	1A2d	SOD PEAT	0,010826424	t/TJ
2015	NMVOC	1A2d	SULPHUR CONCENTRATE	0,002000000	t/TJ
2015	NMVOC	1A2d	TALL PITCH AND OIL	0,001234979	t/TJ
2015	NMVOC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,011049299	t/TJ
2015	NMVOC	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,200000000	t/TJ

2015	NMVOC	1A2d	WOOD RESIDUE CHIPS	0,013852396	t/TJ
2015	NMVOC	1A2e	BARK	0,004000000	t/TJ
2015	NMVOC	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0,001000000	t/TJ
2015	NMVOC	1A2e	CHIPS FROM ROUNDWOOD	0,050000000	t/TJ
2015	NMVOC	1A2e	COKE (S=1.0%)	0,004000000	t/TJ
2015	NMVOC	1A2e	DIESEL OIL (S=001%)	0,001000000	t/TJ
2015	NMVOC	1A2e	FOREST RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A2e	GASOIL (FOR NON-ROAD USE)	0,004000000	t/TJ
2015	NMVOC	1A2e	HEAVY FUEL OIL (S<1%)	0,001000000	t/TJ
2015	NMVOC	1A2e	INDUSTRIAL BIOGAS	0,001000000	t/TJ
2015	NMVOC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,001611422	t/TJ
2015	NMVOC	1A2e	LIQUID GAS	0,001000120	t/TJ
2015	NMVOC	1A2e	MILLED PEAT	0,020000112	t/TJ
2015	NMVOC	1A2e	NATURAL GAS	0,001000000	t/TJ
2015	NMVOC	1A2e	SAWDUST AND CUTTER CHIPS	0,031278081	t/TJ
2015	NMVOC	1A2e	WOOD RESIDUE CHIPS	0,004000000	t/TJ
2015	NMVOC	1A2f	CHIPS FROM ROUNDWOOD	0,042718950	t/TJ
2015	NMVOC	1A2f	COAL (S=1.0%)	0,002618241	t/TJ
2015	NMVOC	1A2f	COKE (S=1.0%)	0,002211540	t/TJ
2015	NMVOC	1A2f	COKE OVEN GAS	0,001000000	t/TJ
2015	NMVOC	1A2f	DIESEL OIL (S=001%)	0,001000000	t/TJ
2015	NMVOC	1A2f	FOREST RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A2f	GASOIL (FOR NON-ROAD USE)	0,001452131	t/TJ
2015	NMVOC	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,001000000	t/TJ
2015	NMVOC	1A2f	HEAVY FUEL OIL (S<1%)	0,001014816	t/TJ
2015	NMVOC	1A2f	INDUSTRIAL BIOGAS	0,001000000	t/TJ
2015	NMVOC	1A2f	LANDFILL GAS	0,001000000	t/TJ
2015	NMVOC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,001000000	t/TJ
2015	NMVOC	1A2f	LIQUID GAS	0,001619305	t/TJ
2015	NMVOC	1A2f	NATURAL GAS	0,001000000	t/TJ
2015	NMVOC	1A2f	OXYGEN STEEL FURNACE GAS	0,001000000	t/TJ
2015	NMVOC	1A2f	PETROLEUM COKE	0,001000000	t/TJ
2015	NMVOC	1A2f	PLASTIC WASTE	0,001000000	t/TJ
2015	NMVOC	1A2f	RECOVERED FUEL (REF 2)	0,001000000	t/TJ
2015	NMVOC	1A2f	RECOVERED WOOD	0,050000000	t/TJ
2015	NMVOC	1A2f	RECYCLED AND WASTE OILS	0,001000000	t/TJ
2015	NMVOC	1A2f	RUBBER WASTE	0,001000000	t/TJ
2015	NMVOC	1A2f	SAWDUST AND CUTTER CHIPS	0,001000000	t/TJ
2015	NMVOC	1A2gvii	DIESEL OIL (S=001%)	0,088251742	t/TJ
2015	NMVOC	1A2gvii	MOTOR GASOLINE (S=0.001%)	1,075960172	t/TJ
2015	NMVOC	1A2gviii	ANIMAL-BASED FUELS	0,050000000	t/TJ
2015	NMVOC	1A2gviii	BARK	0,004000000	t/TJ
2015	NMVOC	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0,004000000	t/TJ
2015	NMVOC	1A2gviii	CHIPS FROM ROUNDWOOD	0,009368392	t/TJ
2015	NMVOC	1A2gviii	COAL (S=1.0%)	0,001070061	t/TJ

2015	NMVOC	1A2gviii	DIESEL OIL (S=001%)	0,001000000	t/TJ
2015	NMVOC	1A2gviii	FOREST RESIDUE CHIPS	0,032957650	t/TJ
2015	NMVOC	1A2gviii	FOREST WOODFUEL	0,010000000	t/TJ
2015	NMVOC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,004012270	t/TJ
2015	NMVOC	1A2gviii	HEAVY FUEL OIL (S<1%)	0,004854475	t/TJ
2015	NMVOC	1A2gviii	INDUSTRIAL BIOGAS	0,001000000	t/TJ
2015	NMVOC	1A2gviii	LANDFILL GAS	0,005000000	t/TJ
2015	NMVOC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,004824302	t/TJ
2015	NMVOC	1A2gviii	LIQUID GAS	0,004338881	t/TJ
2015	NMVOC	1A2gviii	MILLED PEAT	0,004270596	t/TJ
2015	NMVOC	1A2gviii	NATURAL GAS	0,004615904	t/TJ
2015	NMVOC	1A2gviii	OTHER NON-FOSSIL GAS	0,001000000	t/TJ
2015	NMVOC	1A2gviii	OTHER NON-FOSSIL SOLID	0,009815866	t/TJ
2015	NMVOC	1A2gviii	OTHER PETROLEUM PRODUCTS	0,005000000	t/TJ
2015	NMVOC	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,001000000	t/TJ
2015	NMVOC	1A2gviii	RECOVERED FUEL (REF 1)	0,004000000	t/TJ
2015	NMVOC	1A2gviii	RECYCLED AND WASTE OILS	0,001000000	t/TJ
2015	NMVOC	1A2gviii	SAWDUST AND CUTTER CHIPS	0,001182008	t/TJ
2015	NMVOC	1A2gviii	SOD PEAT	0,010021947	t/TJ
2015	NMVOC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,004000000	t/TJ
2015	NMVOC	1A2gviii	WOOD RESIDUE CHIPS	0,004000000	t/TJ
2015	NMVOC	1A3ai(i)	KEROSENE (JET FUEL)	0,043395468	t/TJ
2015	NMVOC	1A3aii(i)	AVIATION GASOLINE	0,305500000	t/TJ
2015	NMVOC	1A3aii(i)	KEROSENE (JET FUEL)	0,038860098	t/TJ
2015	NMVOC	1A3bi	DIESEL OIL (S=001%)	0,010342039	t/TJ
2015	NMVOC	1A3bi	MOTOR GASOLINE (S=0.001%)	0,062301326	t/TJ
2015	NMVOC	1A3bi	NATURAL GAS	0,095203769	t/TJ
2015	NMVOC	1A3bii	DIESEL OIL (S=001%)	0,037479690	t/TJ
2015	NMVOC	1A3bii	MOTOR GASOLINE (S=0.001%)	0,398820532	t/TJ
2015	NMVOC	1A3bii	NATURAL GAS	0,068232419	t/TJ
2015	NMVOC	1A3biii	DIESEL OIL (S=001%)	0,009110112	t/TJ
2015	NMVOC	1A3biii	NATURAL GAS	0,009051185	t/TJ
2015	NMVOC	1A3biv	DIESEL OIL (S=001%)	0,424086330	t/TJ
2015	NMVOC	1A3biv	MOTOR GASOLINE (S=0.001%)	0,964726806	t/TJ
2015	NMVOC	1A3c	GASOIL (FOR NON-ROAD USE)	0,088120060	t/TJ
2015	NMVOC	1A3dii	DIESEL OIL (S=001%)	0,079964696	t/TJ
2015	NMVOC	1A3dii	GASOIL (FOR NON-ROAD USE)	0,056196398	t/TJ
2015	NMVOC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,058120679	t/TJ
2015	NMVOC	1A3dii	MOTOR GASOLINE (S=0.001%)	2,185619322	t/TJ
2015	NMVOC	1A3ei	NATURAL GAS	0,001053462	t/TJ
2015	NMVOC	1A4ai	BIOGAS FROM WASTEWATER TREATMENT	0,001506645	t/TJ
2015	NMVOC	1A4ai	CHIPS FROM ROUNDWOOD	0,042452105	t/TJ
2015	NMVOC	1A4ai	FOREST RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A4ai	FOREST WOODFUEL	0,003000000	t/TJ
2015	NMVOC	1A4ai	GASOIL (FOR NON-ROAD USE)	0,020023291	t/TJ

2015	NMVOC	1A4ai	HEAVY FUEL OIL (S<1%)	0,004580000	t/TJ
2015	NMVOC	1A4ai	LANDFILL GAS	0,001000000	t/TJ
2015	NMVOC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,004993992	t/TJ
2015	NMVOC	1A4ai	LIQUID GAS	0,002041379	t/TJ
2015	NMVOC	1A4ai	MILLED PEAT	0,004000000	t/TJ
2015	NMVOC	1A4ai	NATURAL GAS	0,004655611	t/TJ
2015	NMVOC	1A4ai	SAWDUST AND CUTTER CHIPS	0,045321869	t/TJ
2015	NMVOC	1A4ai	SOD PEAT	0,181157097	t/TJ
2015	NMVOC	1A4ai	WOOD RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	1A4aii	DIESEL OIL (S=001%)	0,098619302	t/TJ
2015	NMVOC	1A4aii	LIQUID GAS	0,801088459	t/TJ
2015	NMVOC	1A4aii	MOTOR GASOLINE (S=0.001%)	1,818099081	t/TJ
2015	NMVOC	1A4bi	COAL (S=1.0%)	0,109090909	t/TJ
2015	NMVOC	1A4bi	FOREST WOODFUEL	0,343279040	t/TJ
2015	NMVOC	1A4bi	HEAVY FUEL OIL (S<1%)	0,004935421	t/TJ
2015	NMVOC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,005000000	t/TJ
2015	NMVOC	1A4bi	LIQUID GAS	0,005000000	t/TJ
2015	NMVOC	1A4bi	NATURAL GAS	0,005000000	t/TJ
2015	NMVOC	1A4bi	PARAFFIN	0,005000000	t/TJ
2015	NMVOC	1A4bi	SOD PEAT	0,200000000	t/TJ
2015	NMVOC	1A4bii	DIESEL OIL (S=001%)	0,254435831	t/TJ
2015	NMVOC	1A4bii	MOTOR GASOLINE (S=0.001%)	0,932080547	t/TJ
2015	NMVOC	1A4ci	FOREST WOODFUEL	0,003000000	t/TJ
2015	NMVOC	1A4ci	HEAVY FUEL OIL (S<1%)	0,005000000	t/TJ
2015	NMVOC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,005000000	t/TJ
2015	NMVOC	1A4ci	LIQUID GAS	0,005000000	t/TJ
2015	NMVOC	1A4ci	NATURAL GAS	0,005000000	t/TJ
2015	NMVOC	1A4ci	SOD PEAT	0,200000000	t/TJ
2015	NMVOC	1A4cii	DIESEL OIL (S=001%)	0,064173194	t/TJ
2015	NMVOC	1A4cii	MOTOR GASOLINE (S=0.001%)	2,436649026	t/TJ
2015	NMVOC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,061983136	t/TJ
2015	NMVOC	1A5a	BARK	0,010000000	t/TJ
2015	NMVOC	1A5a	FOREST RESIDUE CHIPS	0,037812281	t/TJ
2015	NMVOC	1A5a	HEAVY FUEL OIL (S<1%)	0,010000000	t/TJ
2015	NMVOC	1A5a	LIGHT FUEL OIL (S=0.0915%)	51,095863294	t/TJ
2015	NMVOC	1A5a	SOD PEAT	0,015410628	t/TJ
2015	NMVOC	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	NMVOC	1A5a	WOOD RESIDUE CHIPS	0,050000000	t/TJ
2015	NMVOC	5C1a	INDUSTRIAL WASTE	0,009939759	t/TJ
2015	NMVOC	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,002000000	t/TJ
2015	NMVOC	5C1a	MUNICIPAL WASTE - unsorted	0,002000000	t/TJ
2015	NMVOC	5C1a	NATURAL GAS	0,009939759	t/TJ
2015	NMVOC	5C1a	RECOVERED FUEL (REF 3)	0,009939759	t/TJ
2015	NMVOC	5C1bi	DEMOLITION WOOD	0,050000000	t/TJ
2015	NMVOC	5C1bi	FOREST RESIDUE CHIPS	0,050000000	t/TJ

2015	NMVOC	5C1bi	HAZARDOUS WASTE	0,010000000	t/TJ
2015	NMVOC	5C1bi	HEAVY FUEL OIL (S<1%)	0,010000000	t/TJ
2015	NMVOC	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,024405356	t/TJ
2015	NMVOC	5C1bi	LIQUID GAS	0,050000000	t/TJ
2015	NMVOC	5C1bi	MUNICIPAL WASTE - unsorted	0,007522577	t/TJ
2015	NMVOC	5C1bi	RECOVERED FUEL (REF 2)	0,050000000	t/TJ
2015	NMVOC	5C1bi	RECOVERED WOOD	0,050000000	t/TJ
2015	NMVOC	5C1bi	RECYCLED AND WASTE OILS	0,010000000	t/TJ

SOx Implied emission factors in Finnish air pollutant inventory for 2015

2015	SO2	1A1a	ANIMAL-BASED FUELS	0,070679514	t/TJ
2015	SO2	1A1a	BARK	0,021975846	t/TJ
2015	SO2	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0,010000000	t/TJ
2015	SO2	1A1a	CHIPS FROM ROUNDWOOD	0,013665190	t/TJ
2015	SO2	1A1a	COAL (S=1.0%)	0,106191176	t/TJ
2015	SO2	1A1a	DEINKING WASTE	0,222359225	t/TJ
2015	SO2	1A1a	DEMOLITION WOOD	0,022270084	t/TJ
2015	SO2	1A1a	DIESEL OIL (S=001%)	0,000470000	t/TJ
2015	SO2	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,020000000	t/TJ
2015	SO2	1A1a	FOREST RESIDUE CHIPS	0,011366466	t/TJ
2015	SO2	1A1a	GASOIL (FOR NON-ROAD USE)	0,048562260	t/TJ
2015	SO2	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,063646417	t/TJ
2015	SO2	1A1a	HEAVY FUEL OIL (S<1%)	0,363190822	t/TJ
2015	SO2	1A1a	HYDROGEN	0,000000136	t/TJ
2015	SO2	1A1a	INDUSTRIAL BIOGAS	0,005196707	t/TJ
2015	SO2	1A1a	INDUSTRIAL WASTE	0,182077398	t/TJ
2015	SO2	1A1a	LANDFILL GAS	0,016802179	t/TJ
2015	SO2	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,034997057	t/TJ
2015	SO2	1A1a	LIQUID BIOFUELS	0,001023963	t/TJ
2015	SO2	1A1a	LIQUID GAS	0,053593558	t/TJ
2015	SO2	1A1a	MILLED PEAT	0,116098604	t/TJ
2015	SO2	1A1a	MUNICIPAL WASTE - unsorted	0,001399985	t/TJ
2015	SO2	1A1a	NATURAL GAS	0,000059655	t/TJ
2015	SO2	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,008099118	t/TJ
2015	SO2	1A1a	OTHER FOSSIL GAS	0,058916133	t/TJ
2015	SO2	1A1a	OTHER FOSSIL LIQUID	0,259357735	t/TJ
2015	SO2	1A1a	OTHER FOSSIL SOLID	0,056547518	t/TJ
2015	SO2	1A1a	OTHER NON-FOSSIL GAS	0,010000000	t/TJ
2015	SO2	1A1a	OTHER NON-FOSSIL SOLID	0,109881494	t/TJ
2015	SO2	1A1a	OTHER WOOD RESIDUE	0,017280810	t/TJ
2015	SO2	1A1a	OXYGEN STEEL FURNACE GAS	0,000005198	t/TJ
2015	SO2	1A1a	PEAT PELLETS AND BRIQUETTES	0,052197704	t/TJ
2015	SO2	1A1a	RECOVERED FUEL (REF 2)	0,036329924	t/TJ
2015	SO2	1A1a	RECOVERED WOOD	0,052518299	t/TJ
2015	SO2	1A1a	RECYCLED AND WASTE OILS	0,128400759	t/TJ
2015	SO2	1A1a	SALT TREATED WOOD	0,005411285	t/TJ
2015	SO2	1A1a	SAWDUST AND CUTTER CHIPS	0,013889138	t/TJ
2015	SO2	1A1a	SOD PEAT	0,158560865	t/TJ
2015	SO2	1A1a	TALL PITCH AND OIL	0,178930094	t/TJ
2015	SO2	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,017725009	t/TJ
2015	SO2	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,012463649	t/TJ

2015	SO2	1A1a	WOOD RESIDUE CHIPS	0,013376820	t/TJ
2015	SO2	1A1b	DIESEL OIL (S=001%)	0,001814357	t/TJ
2015	SO2	1A1b	GASOIL (FOR NON-ROAD USE)	0,026842679	t/TJ
2015	SO2	1A1b	HEAVY FUEL OIL (S<1%)	0,269844529	t/TJ
2015	SO2	1A1b	LIQUID GAS	0,000008971	t/TJ
2015	SO2	1A1b	NATURAL GAS	0,005248884	t/TJ
2015	SO2	1A1b	OTHER FOSSIL GAS	0,001610702	t/TJ
2015	SO2	1A1b	OTHER HEAVY DISTILLATES	0,808929109	t/TJ
2015	SO2	1A1b	OTHER WASTE	0,004156978	t/TJ
2015	SO2	1A1b	PETROLEUM COKE	0,511464284	t/TJ
2015	SO2	1A1b	REFINERY GAS	0,264846185	t/TJ
2015	SO2	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	SO2	1A2a	BLAST FURNACE GAS	0,002170464	t/TJ
2015	SO2	1A2a	COKE (S=1.0%)	0,277071537	t/TJ
2015	SO2	1A2a	COKE OVEN GAS	0,201582448	t/TJ
2015	SO2	1A2a	FOREST RESIDUE CHIPS	0,119647355	t/TJ
2015	SO2	1A2a	GASOIL (FOR NON-ROAD USE)	16,588144255	t/TJ
2015	SO2	1A2a	HEAVY FUEL OIL (S<1%)	0,594047845	t/TJ
2015	SO2	1A2a	HYDROGEN	0,000000200	t/TJ
2015	SO2	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,055157096	t/TJ
2015	SO2	1A2a	LIQUID GAS	0,008641276	t/TJ
2015	SO2	1A2a	NATURAL GAS	0,022436646	t/TJ
2015	SO2	1A2a	OTHER FOSSIL LIQUID	0,670000000	t/TJ
2015	SO2	1A2a	OTHER FOSSIL SOLID	0,049293995	t/TJ
2015	SO2	1A2a	OXYGEN STEEL FURNACE GAS	0,000844530	t/TJ
2015	SO2	1A2a	WOOD RESIDUE CHIPS	0,020000000	t/TJ
2015	SO2	1A2b	CHIPS FROM ROUNDWOOD	0,020000000	t/TJ
2015	SO2	1A2b	COAL (S=1.0%)	8,744246808	t/TJ
2015	SO2	1A2b	COKE (S=1.0%)	6,537861967	t/TJ
2015	SO2	1A2b	DIESEL OIL (S=001%)	0,000470000	t/TJ
2015	SO2	1A2b	GASOIL (FOR NON-ROAD USE)	0,386777949	t/TJ
2015	SO2	1A2b	HEAVY FUEL OIL (S<1%)	3,227615794	t/TJ
2015	SO2	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,366465939	t/TJ
2015	SO2	1A2b	LIQUID GAS	0,000131125	t/TJ
2015	SO2	1A2b	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A2b	OTHER FOSSIL SOLID	19,144544560	t/TJ
2015	SO2	1A2b	RECYCLED AND WASTE OILS	4,202227531	t/TJ
2015	SO2	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	SO2	1A2c	COAL (S=1.0%)	0,107678653	t/TJ
2015	SO2	1A2c	DIESEL OIL (S=001%)	14,091416445	t/TJ
2015	SO2	1A2c	GASIFIED WASTE	0,005000000	t/TJ
2015	SO2	1A2c	GASOIL (FOR NON-ROAD USE)	0,043000000	t/TJ
2015	SO2	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,165000946	t/TJ
2015	SO2	1A2c	HEAVY FUEL OIL (S<1%)	0,453698598	t/TJ
2015	SO2	1A2c	HYDROGEN	0,000000200	t/TJ

2015	SO2	1A2c	LIGHT FUEL OIL (S=0.0915%)	17,889485725	t/TJ
2015	SO2	1A2c	LIQUID GAS	0,338290534	t/TJ
2015	SO2	1A2c	NATURAL GAS	0,000246747	t/TJ
2015	SO2	1A2c	OTHER FOSSIL GAS	0,003328188	t/TJ
2015	SO2	1A2c	OTHER FOSSIL LIQUID	0,602671816	t/TJ
2015	SO2	1A2c	OTHER MEDIUM DISTILLATES	0,050372570	t/TJ
2015	SO2	1A2c	PETROLEUM COKE	0,595755918	t/TJ
2015	SO2	1A2c	REFINERY GAS	0,003863296	t/TJ
2015	SO2	1A2c	TALL PITCH AND OIL	0,468079423	t/TJ
2015	SO2	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	SO2	1A2d	ANIMAL-BASED FUELS	0,065363772	t/TJ
2015	SO2	1A2d	BARK	0,024771270	t/TJ
2015	SO2	1A2d	BLACK LIQUOR	0,002677002	t/TJ
2015	SO2	1A2d	CHIPS FROM ROUNDWOOD	0,015108147	t/TJ
2015	SO2	1A2d	COAL (S=1.0%)	0,056234978	t/TJ
2015	SO2	1A2d	DEMOLITION WOOD	0,056648602	t/TJ
2015	SO2	1A2d	FOREST RESIDUE CHIPS	0,009720872	t/TJ
2015	SO2	1A2d	GASOIL (FOR NON-ROAD USE)	1,620290449	t/TJ
2015	SO2	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,086103876	t/TJ
2015	SO2	1A2d	HEAVY FUEL OIL (S<1%)	0,106479225	t/TJ
2015	SO2	1A2d	HYDROGEN	0,000000001	t/TJ
2015	SO2	1A2d	INDUSTRIAL BIOGAS	0,043838522	t/TJ
2015	SO2	1A2d	INDUSTRIAL WASTE	0,001312515	t/TJ
2015	SO2	1A2d	LANDFILL GAS	0,013782726	t/TJ
2015	SO2	1A2d	LIGHT FUEL OIL (S=0.0915%)	20,426605239	t/TJ
2015	SO2	1A2d	LIQUID BIOFUELS	0,000019402	t/TJ
2015	SO2	1A2d	LIQUID GAS	0,000071673	t/TJ
2015	SO2	1A2d	METHANOL	0,097420941	t/TJ
2015	SO2	1A2d	MILLED PEAT	0,086965805	t/TJ
2015	SO2	1A2d	NATURAL GAS	0,003275763	t/TJ
2015	SO2	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,009130332	t/TJ
2015	SO2	1A2d	OTHER NON-FOSSIL SOLID	0,036192292	t/TJ
2015	SO2	1A2d	OTHER WASTE	0,162149712	t/TJ
2015	SO2	1A2d	OTHER WOOD RESIDUE	0,029819535	t/TJ
2015	SO2	1A2d	PLASTIC WASTE	0,098668744	t/TJ
2015	SO2	1A2d	RECOVERED FUEL (REF 2)	0,027558494	t/TJ
2015	SO2	1A2d	RECOVERED WOOD	0,032536732	t/TJ
2015	SO2	1A2d	RECYCLED AND WASTE OILS	0,087151696	t/TJ
2015	SO2	1A2d	SALT TREATED WOOD	0,008715170	t/TJ
2015	SO2	1A2d	SAWDUST AND CUTTER CHIPS	0,012368738	t/TJ
2015	SO2	1A2d	SOD PEAT	0,287384358	t/TJ
2015	SO2	1A2d	SULPHUR CONCENTRATE	0,563188846	t/TJ
2015	SO2	1A2d	TALL PITCH AND OIL	0,008803116	t/TJ
2015	SO2	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,023761826	t/TJ
2015	SO2	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ

2015	SO2	1A2d	WOOD RESIDUE CHIPS	0,012910094	t/TJ
2015	SO2	1A2e	BARK	0,040000000	t/TJ
2015	SO2	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0,010000000	t/TJ
2015	SO2	1A2e	CHIPS FROM ROUNDWOOD	0,009715742	t/TJ
2015	SO2	1A2e	COKE (S=1.0%)	0,321010000	t/TJ
2015	SO2	1A2e	DIESEL OIL (S=001%)	0,000470000	t/TJ
2015	SO2	1A2e	FOREST RESIDUE CHIPS	0,009715742	t/TJ
2015	SO2	1A2e	GASOIL (FOR NON-ROAD USE)	0,057511134	t/TJ
2015	SO2	1A2e	HEAVY FUEL OIL (S<1%)	0,415090172	t/TJ
2015	SO2	1A2e	INDUSTRIAL BIOGAS	0,007000000	t/TJ
2015	SO2	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,114812303	t/TJ
2015	SO2	1A2e	LIQUID GAS	0,013123025	t/TJ
2015	SO2	1A2e	MILLED PEAT	0,121114652	t/TJ
2015	SO2	1A2e	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A2e	SAWDUST AND CUTTER CHIPS	0,013901417	t/TJ
2015	SO2	1A2e	WOOD RESIDUE CHIPS	0,020000000	t/TJ
2015	SO2	1A2f	CHIPS FROM ROUNDWOOD	0,003664262	t/TJ
2015	SO2	1A2f	COAL (S=1.0%)	0,073437476	t/TJ
2015	SO2	1A2f	COKE (S=1.0%)	0,564944822	t/TJ
2015	SO2	1A2f	COKE OVEN GAS	0,005616112	t/TJ
2015	SO2	1A2f	DIESEL OIL (S=001%)	0,029222041	t/TJ
2015	SO2	1A2f	FOREST RESIDUE CHIPS	0,009803759	t/TJ
2015	SO2	1A2f	GASOIL (FOR NON-ROAD USE)	0,024347381	t/TJ
2015	SO2	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,691000000	t/TJ
2015	SO2	1A2f	HEAVY FUEL OIL (S<1%)	0,196182855	t/TJ
2015	SO2	1A2f	INDUSTRIAL BIOGAS	0,007000000	t/TJ
2015	SO2	1A2f	LANDFILL GAS	0,009079032	t/TJ
2015	SO2	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,033694271	t/TJ
2015	SO2	1A2f	LIQUID GAS	0,027046812	t/TJ
2015	SO2	1A2f	NATURAL GAS	0,003505477	t/TJ
2015	SO2	1A2f	OXYGEN STEEL FURNACE GAS	0,000007000	t/TJ
2015	SO2	1A2f	PETROLEUM COKE	0,004695194	t/TJ
2015	SO2	1A2f	PLASTIC WASTE	0,000489734	t/TJ
2015	SO2	1A2f	RECOVERED FUEL (REF 2)	0,001622609	t/TJ
2015	SO2	1A2f	RECOVERED WOOD	0,112743230	t/TJ
2015	SO2	1A2f	RECYCLED AND WASTE OILS	0,005112678	t/TJ
2015	SO2	1A2f	RUBBER WASTE	0,003713812	t/TJ
2015	SO2	1A2f	SAWDUST AND CUTTER CHIPS	2,061728247	t/TJ
2015	SO2	1A2gvii	DIESEL OIL (S=001%)	0,000226294	t/TJ
2015	SO2	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,000359618	t/TJ
2015	SO2	1A2gviii	ANIMAL-BASED FUELS	0,002867230	t/TJ
2015	SO2	1A2gviii	BARK	0,045646065	t/TJ
2015	SO2	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0,011411516	t/TJ
2015	SO2	1A2gviii	CHIPS FROM ROUNDWOOD	0,006411601	t/TJ
2015	SO2	1A2gviii	COAL (S=1.0%)	0,232889351	t/TJ

2015	SO2	1A2gviii	DIESEL OIL (S=001%)	0,120103401	t/TJ
2015	SO2	1A2gviii	FOREST RESIDUE CHIPS	0,012381457	t/TJ
2015	SO2	1A2gviii	FOREST WOODFUEL	0,020000000	t/TJ
2015	SO2	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,025439143	t/TJ
2015	SO2	1A2gviii	HEAVY FUEL OIL (S<1%)	0,435887204	t/TJ
2015	SO2	1A2gviii	INDUSTRIAL BIOGAS	0,007000000	t/TJ
2015	SO2	1A2gviii	LANDFILL GAS	0,017000000	t/TJ
2015	SO2	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,042626539	t/TJ
2015	SO2	1A2gviii	LIQUID GAS	0,000059818	t/TJ
2015	SO2	1A2gviii	MILLED PEAT	0,110887261	t/TJ
2015	SO2	1A2gviii	NATURAL GAS	0,000061938	t/TJ
2015	SO2	1A2gviii	OTHER NON-FOSSIL GAS	0,010280267	t/TJ
2015	SO2	1A2gviii	OTHER NON-FOSSIL SOLID	0,097916910	t/TJ
2015	SO2	1A2gviii	OTHER PETROLEUM PRODUCTS	0,100000000	t/TJ
2015	SO2	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,013308200	t/TJ
2015	SO2	1A2gviii	RECOVERED FUEL (REF 1)	0,021546651	t/TJ
2015	SO2	1A2gviii	RECYCLED AND WASTE OILS	0,164316348	t/TJ
2015	SO2	1A2gviii	SAWDUST AND CUTTER CHIPS	0,008416428	t/TJ
2015	SO2	1A2gviii	SOD PEAT	0,139932991	t/TJ
2015	SO2	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,006391387	t/TJ
2015	SO2	1A2gviii	WOOD RESIDUE CHIPS	0,015708101	t/TJ
2015	SO2	1A3ai(i)	KEROSENE (JET FUEL)	0,019400000	t/TJ
2015	SO2	1A3aii(i)	AVIATION GASOLINE	0,000920000	t/TJ
2015	SO2	1A3aii(i)	KEROSENE (JET FUEL)	0,019399540	t/TJ
2015	SO2	1A3bi	DIESEL OIL (S=001%)	0,000217183	t/TJ
2015	SO2	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000346150	t/TJ
2015	SO2	1A3bi	NATURAL GAS	0,000030065	t/TJ
2015	SO2	1A3bii	DIESEL OIL (S=001%)	0,000217183	t/TJ
2015	SO2	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000347734	t/TJ
2015	SO2	1A3bii	NATURAL GAS	0,000030065	t/TJ
2015	SO2	1A3biii	DIESEL OIL (S=001%)	0,000217183	t/TJ
2015	SO2	1A3biii	NATURAL GAS	0,000030065	t/TJ
2015	SO2	1A3biv	DIESEL OIL (S=001%)	0,000217183	t/TJ
2015	SO2	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000434637	t/TJ
2015	SO2	1A3c	GASOIL (FOR NON-ROAD USE)	0,000469484	t/TJ
2015	SO2	1A3dii	DIESEL OIL (S=001%)	0,000217363	t/TJ
2015	SO2	1A3dii	GASOIL (FOR NON-ROAD USE)	0,016213066	t/TJ
2015	SO2	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,044186506	t/TJ
2015	SO2	1A3dii	MOTOR GASOLINE (S=0.001%)	0,000449670	t/TJ
2015	SO2	1A3ei	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A4ai	BIOGAS FROM WASTEWATER TREATMENT	0,009234473	t/TJ
2015	SO2	1A4ai	CHIPS FROM ROUNDWOOD	0,020000000	t/TJ
2015	SO2	1A4ai	FOREST RESIDUE CHIPS	0,020000000	t/TJ
2015	SO2	1A4ai	FOREST WOODFUEL	0,005000000	t/TJ
2015	SO2	1A4ai	GASOIL (FOR NON-ROAD USE)	0,043000000	t/TJ

2015	SO2	1A4ai	HEAVY FUEL OIL (S<1%)	0,435908517	t/TJ
2015	SO2	1A4ai	LANDFILL GAS	0,003079974	t/TJ
2015	SO2	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,042979261	t/TJ
2015	SO2	1A4ai	LIQUID GAS	0,000009143	t/TJ
2015	SO2	1A4ai	MILLED PEAT	0,140000000	t/TJ
2015	SO2	1A4ai	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A4ai	SAWDUST AND CUTTER CHIPS	0,020000000	t/TJ
2015	SO2	1A4ai	SOD PEAT	0,187462903	t/TJ
2015	SO2	1A4ai	WOOD RESIDUE CHIPS	0,026600985	t/TJ
2015	SO2	1A4aii	DIESEL OIL (S=001%)	0,000226294	t/TJ
2015	SO2	1A4aii	LIQUID GAS	0,000032544	t/TJ
2015	SO2	1A4aii	MOTOR GASOLINE (S=0.001%)	0,000359618	t/TJ
2015	SO2	1A4bi	COAL (S=1.0%)	0,342000000	t/TJ
2015	SO2	1A4bi	FOREST WOODFUEL	0,005000000	t/TJ
2015	SO2	1A4bi	HEAVY FUEL OIL (S<1%)	0,474476295	t/TJ
2015	SO2	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,043000000	t/TJ
2015	SO2	1A4bi	LIQUID GAS	0,000009000	t/TJ
2015	SO2	1A4bi	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A4bi	PARAFFIN	0,009300000	t/TJ
2015	SO2	1A4bi	SOD PEAT	0,180000000	t/TJ
2015	SO2	1A4bii	DIESEL OIL (S=001%)	0,000226294	t/TJ
2015	SO2	1A4bii	MOTOR GASOLINE (S=0.001%)	0,000359618	t/TJ
2015	SO2	1A4ci	FOREST WOODFUEL	0,005000000	t/TJ
2015	SO2	1A4ci	HEAVY FUEL OIL (S<1%)	0,438000000	t/TJ
2015	SO2	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,043000000	t/TJ
2015	SO2	1A4ci	LIQUID GAS	0,000009000	t/TJ
2015	SO2	1A4ci	NATURAL GAS	0,000040000	t/TJ
2015	SO2	1A4ci	SOD PEAT	0,180000000	t/TJ
2015	SO2	1A4cii	DIESEL OIL (S=001%)	0,000226294	t/TJ
2015	SO2	1A4cii	MOTOR GASOLINE (S=0.001%)	0,000359618	t/TJ
2015	SO2	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000217692	t/TJ
2015	SO2	1A5a	BARK	0,025388271	t/TJ
2015	SO2	1A5a	FOREST RESIDUE CHIPS	0,021922885	t/TJ
2015	SO2	1A5a	HEAVY FUEL OIL (S<1%)	0,308890627	t/TJ
2015	SO2	1A5a	LIGHT FUEL OIL (S=0.0915%)	39,206108744	t/TJ
2015	SO2	1A5a	SOD PEAT	0,130405548	t/TJ
2015	SO2	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,006347068	t/TJ
2015	SO2	1A5a	WOOD RESIDUE CHIPS	0,025967049	t/TJ
2015	SO2	5C1a	INDUSTRIAL WASTE	0,003539358	t/TJ
2015	SO2	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,001595358	t/TJ
2015	SO2	5C1a	MUNICIPAL WASTE - unsorted	0,008533308	t/TJ
2015	SO2	5C1a	NATURAL GAS	0,000000211	t/TJ
2015	SO2	5C1a	RECOVERED FUEL (REF 3)	0,000686741	t/TJ
2015	SO2	5C1bi	DEMOLITION WOOD	0,001523578	t/TJ
2015	SO2	5C1bi	FOREST RESIDUE CHIPS	0,000234397	t/TJ

2015	SO2	5C1bi	HAZARDOUS WASTE	0,003222937	t/TJ
2015	SO2	5C1bi	HEAVY FUEL OIL (S<1%)	0,010858817	t/TJ
2015	SO2	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000702803	t/TJ
2015	SO2	5C1bi	LIQUID GAS	0,000000105	t/TJ
2015	SO2	5C1bi	MUNICIPAL WASTE - unsorted	0,003718153	t/TJ
2015	SO2	5C1bi	RECOVERED FUEL (REF 2)	0,001523578	t/TJ
2015	SO2	5C1bi	RECOVERED WOOD	0,002695561	t/TJ
2015	SO2	5C1bi	RECYCLED AND WASTE OILS	0,010883609	t/TJ

NH3 Implied emission factors in Finnish air pollutant inventory for 2015

2015	NH3	1A2gvii	DIESEL OIL (S=001%)	0,000187354	t/TJ
2015	NH3	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,000096264	t/TJ
2015	NH3	1A3c	GASOIL (FOR NON-ROAD USE)	0,000164319	t/TJ
2015	NH3	1A3dii	DIESEL OIL (S=001%)	0,000184726	t/TJ
2015	NH3	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000184929	t/TJ
2015	NH3	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,000194919	t/TJ
2015	NH3	1A3dii	MOTOR GASOLINE (S=0.001%)	0,000113083	t/TJ
2015	NH3	1A4ai	FOREST WOODFUEL	0,000721109	t/TJ
2015	NH3	1A4aii	DIESEL OIL (S=001%)	0,000187354	t/TJ
2015	NH3	1A4aii	LIQUID GAS	0,000239130	t/TJ
2015	NH3	1A4aii	MOTOR GASOLINE (S=0.001%)	0,000079678	t/TJ
2015	NH3	1A4bi	COAL (S=1.0%)	0,000163636	t/TJ
2015	NH3	1A4bi	FOREST WOODFUEL	0,015004940	t/TJ
2015	NH3	1A4bii	DIESEL OIL (S=001%)	0,000187354	t/TJ
2015	NH3	1A4bii	MOTOR GASOLINE (S=0.001%)	0,000096264	t/TJ
2015	NH3	1A4ci	FOREST WOODFUEL	0,000721443	t/TJ
2015	NH3	1A4cii	DIESEL OIL (S=001%)	0,000187354	t/TJ
2015	NH3	1A4cii	MOTOR GASOLINE (S=0.001%)	0,000096264	t/TJ
2015	NH3	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000185012	t/TJ
2015	NH3	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,195121283	t/TJ

PM2.5 Implied emission factors in Finnish air pollutant inventory for 2015

2015	PM 2.5	1A1a	ANIMAL-BASED FUELS	0,000034779	t/TJ
2015	PM 2.5	1A1a	BARK	0,001226902	t/TJ
2015	PM 2.5	1A1a	CHIPS FROM ROUNDWOOD	0,004879060	t/TJ
2015	PM 2.5	1A1a	COAL (S=1.0%)	0,000835483	t/TJ
2015	PM 2.5	1A1a	DEINKING WASTE	0,001003718	t/TJ
2015	PM 2.5	1A1a	DEMOLITION WOOD	0,000348430	t/TJ
2015	PM 2.5	1A1a	DIESEL OIL (S=001%)	0,002400000	t/TJ
2015	PM 2.5	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,154000000	t/TJ
2015	PM 2.5	1A1a	FOREST RESIDUE CHIPS	0,001799211	t/TJ
2015	PM 2.5	1A1a	GASOIL (FOR NON-ROAD USE)	0,000974717	t/TJ
2015	PM 2.5	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000813583	t/TJ
2015	PM 2.5	1A1a	HEAVY FUEL OIL (S<1%)	0,013766944	t/TJ
2015	PM 2.5	1A1a	INDUSTRIAL WASTE	0,000591819	t/TJ
2015	PM 2.5	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,000593772	t/TJ
2015	PM 2.5	1A1a	LIQUID BIOFUELS	0,000698429	t/TJ
2015	PM 2.5	1A1a	MILLED PEAT	0,001433500	t/TJ
2015	PM 2.5	1A1a	MUNICIPAL WASTE - unsorted	0,000022115	t/TJ
2015	PM 2.5	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,004882539	t/TJ
2015	PM 2.5	1A1a	OTHER FOSSIL LIQUID	0,005580262	t/TJ
2015	PM 2.5	1A1a	OTHER FOSSIL SOLID	0,000264869	t/TJ
2015	PM 2.5	1A1a	OTHER NON-FOSSIL SOLID	0,012486803	t/TJ
2015	PM 2.5	1A1a	OTHER WOOD RESIDUE	0,002256223	t/TJ
2015	PM 2.5	1A1a	PEAT PELLETS AND BRIQUETTES	0,001415600	t/TJ
2015	PM 2.5	1A1a	RECOVERED FUEL (REF 2)	0,000316227	t/TJ
2015	PM 2.5	1A1a	RECOVERED WOOD	0,003046258	t/TJ
2015	PM 2.5	1A1a	RECYCLED AND WASTE OILS	0,001004179	t/TJ
2015	PM 2.5	1A1a	SALT TREATED WOOD	0,001193533	t/TJ
2015	PM 2.5	1A1a	SAWDUST AND CUTTER CHIPS	0,002304819	t/TJ
2015	PM 2.5	1A1a	SOD PEAT	0,003719777	t/TJ
2015	PM 2.5	1A1a	TALL PITCH AND OIL	0,011548594	t/TJ
2015	PM 2.5	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,003100987	t/TJ
2015	PM 2.5	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,004153181	t/TJ
2015	PM 2.5	1A1a	WOOD RESIDUE CHIPS	0,002076712	t/TJ
2015	PM 2.5	1A1b	DIESEL OIL (S=001%)	0,000393016	t/TJ
2015	PM 2.5	1A1b	GASOIL (FOR NON-ROAD USE)	0,000261497	t/TJ
2015	PM 2.5	1A1b	HEAVY FUEL OIL (S<1%)	0,006999807	t/TJ
2015	PM 2.5	1A1b	OTHER HEAVY DISTILLATES	0,006949501	t/TJ
2015	PM 2.5	1A1b	OTHER WASTE	0,010000000	t/TJ
2015	PM 2.5	1A1b	PETROLEUM COKE	0,001716491	t/TJ
2015	PM 2.5	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	PM 2.5	1A2a	BLAST FURNACE GAS	0,000781002	t/TJ

2015	PM 2.5	1A2a	COKE (S=1.0%)	0,001538930	t/TJ
2015	PM 2.5	1A2a	COKE OVEN GAS	0,002859967	t/TJ
2015	PM 2.5	1A2a	FOREST RESIDUE CHIPS	0,005510076	t/TJ
2015	PM 2.5	1A2a	GASOIL (FOR NON-ROAD USE)	0,000801426	t/TJ
2015	PM 2.5	1A2a	HEAVY FUEL OIL (S<1%)	0,012598046	t/TJ
2015	PM 2.5	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,000810337	t/TJ
2015	PM 2.5	1A2a	LIQUID GAS	0,000013160	t/TJ
2015	PM 2.5	1A2a	OTHER FOSSIL LIQUID	0,042000000	t/TJ
2015	PM 2.5	1A2a	OTHER FOSSIL SOLID	0,000027186	t/TJ
2015	PM 2.5	1A2a	OXYGEN STEEL FURNACE GAS	0,000040194	t/TJ
2015	PM 2.5	1A2a	WOOD RESIDUE CHIPS	0,010000000	t/TJ
2015	PM 2.5	1A2b	CHIPS FROM ROUNDWOOD	0,020000000	t/TJ
2015	PM 2.5	1A2b	COAL (S=1.0%)	0,007353226	t/TJ
2015	PM 2.5	1A2b	COKE (S=1.0%)	0,002302449	t/TJ
2015	PM 2.5	1A2b	DIESEL OIL (S=001%)	0,000840000	t/TJ
2015	PM 2.5	1A2b	GASOIL (FOR NON-ROAD USE)	0,000297087	t/TJ
2015	PM 2.5	1A2b	HEAVY FUEL OIL (S<1%)	0,011549094	t/TJ
2015	PM 2.5	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,000307290	t/TJ
2015	PM 2.5	1A2b	OTHER FOSSIL SOLID	0,002302449	t/TJ
2015	PM 2.5	1A2b	RECYCLED AND WASTE OILS	0,012893716	t/TJ
2015	PM 2.5	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,010000000	t/TJ
2015	PM 2.5	1A2c	COAL (S=1.0%)	0,002974373	t/TJ
2015	PM 2.5	1A2c	DIESEL OIL (S=001%)	0,000840000	t/TJ
2015	PM 2.5	1A2c	GASOIL (FOR NON-ROAD USE)	0,000840000	t/TJ
2015	PM 2.5	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,003974396	t/TJ
2015	PM 2.5	1A2c	HEAVY FUEL OIL (S<1%)	0,034003133	t/TJ
2015	PM 2.5	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,001040597	t/TJ
2015	PM 2.5	1A2c	OTHER FOSSIL LIQUID	0,042000000	t/TJ
2015	PM 2.5	1A2c	OTHER MEDIUM DISTILLATES	0,000840000	t/TJ
2015	PM 2.5	1A2c	PETROLEUM COKE	0,007500000	t/TJ
2015	PM 2.5	1A2c	TALL PITCH AND OIL	0,042000000	t/TJ
2015	PM 2.5	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,009488396	t/TJ
2015	PM 2.5	1A2d	ANIMAL-BASED FUELS	0,000360043	t/TJ
2015	PM 2.5	1A2d	BARK	0,002857757	t/TJ
2015	PM 2.5	1A2d	BLACK LIQUOR	0,008142313	t/TJ
2015	PM 2.5	1A2d	CHIPS FROM ROUNDWOOD	0,012714040	t/TJ
2015	PM 2.5	1A2d	COAL (S=1.0%)	0,000168192	t/TJ
2015	PM 2.5	1A2d	DEMOLITION WOOD	0,000360043	t/TJ
2015	PM 2.5	1A2d	FOREST RESIDUE CHIPS	0,006674360	t/TJ
2015	PM 2.5	1A2d	GASOIL (FOR NON-ROAD USE)	0,033521164	t/TJ
2015	PM 2.5	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,002233734	t/TJ
2015	PM 2.5	1A2d	HEAVY FUEL OIL (S<1%)	0,008788764	t/TJ
2015	PM 2.5	1A2d	HYDROGEN	0,000510328	t/TJ
2015	PM 2.5	1A2d	INDUSTRIAL BIOGAS	0,025954542	t/TJ
2015	PM 2.5	1A2d	INDUSTRIAL WASTE	0,001517717	t/TJ

2015	PM 2.5	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,000741242	t/TJ
2015	PM 2.5	1A2d	LIQUID BIOFUELS	0,000706392	t/TJ
2015	PM 2.5	1A2d	LIQUID GAS	0,000000113	t/TJ
2015	PM 2.5	1A2d	METHANOL	0,002597109	t/TJ
2015	PM 2.5	1A2d	MILLED PEAT	0,003974642	t/TJ
2015	PM 2.5	1A2d	NATURAL GAS	0,002455570	t/TJ
2015	PM 2.5	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,020729989	t/TJ
2015	PM 2.5	1A2d	OTHER NON-FOSSIL SOLID	0,000220690	t/TJ
2015	PM 2.5	1A2d	OTHER WASTE	0,000290063	t/TJ
2015	PM 2.5	1A2d	OTHER WOOD RESIDUE	0,003154404	t/TJ
2015	PM 2.5	1A2d	PLASTIC WASTE	0,001534648	t/TJ
2015	PM 2.5	1A2d	RECOVERED FUEL (REF 2)	0,000625337	t/TJ
2015	PM 2.5	1A2d	RECOVERED WOOD	0,001878399	t/TJ
2015	PM 2.5	1A2d	RECYCLED AND WASTE OILS	0,000725019	t/TJ
2015	PM 2.5	1A2d	SALT TREATED WOOD	0,000360043	t/TJ
2015	PM 2.5	1A2d	SAWDUST AND CUTTER CHIPS	0,005976782	t/TJ
2015	PM 2.5	1A2d	SOD PEAT	0,002848118	t/TJ
2015	PM 2.5	1A2d	SULPHUR CONCENTRATE	0,003333333	t/TJ
2015	PM 2.5	1A2d	TALL PITCH AND OIL	0,002264515	t/TJ
2015	PM 2.5	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,006697447	t/TJ
2015	PM 2.5	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,020000000	t/TJ
2015	PM 2.5	1A2d	WOOD RESIDUE CHIPS	0,003882662	t/TJ
2015	PM 2.5	1A2e	BARK	0,004250000	t/TJ
2015	PM 2.5	1A2e	CHIPS FROM ROUNDWOOD	0,000300968	t/TJ
2015	PM 2.5	1A2e	COKE (S=1.0%)	0,007500000	t/TJ
2015	PM 2.5	1A2e	DIESEL OIL (S=001%)	0,000840000	t/TJ
2015	PM 2.5	1A2e	FOREST RESIDUE CHIPS	0,000300968	t/TJ
2015	PM 2.5	1A2e	GASOIL (FOR NON-ROAD USE)	0,000060238	t/TJ
2015	PM 2.5	1A2e	HEAVY FUEL OIL (S<1%)	0,029158279	t/TJ
2015	PM 2.5	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,000454155	t/TJ
2015	PM 2.5	1A2e	MILLED PEAT	0,000342167	t/TJ
2015	PM 2.5	1A2e	SAWDUST AND CUTTER CHIPS	0,001908217	t/TJ
2015	PM 2.5	1A2e	WOOD RESIDUE CHIPS	0,004250000	t/TJ
2015	PM 2.5	1A2f	CHIPS FROM ROUNDWOOD	0,014176300	t/TJ
2015	PM 2.5	1A2f	COAL (S=1.0%)	0,003340470	t/TJ
2015	PM 2.5	1A2f	COKE (S=1.0%)	0,005614830	t/TJ
2015	PM 2.5	1A2f	DIESEL OIL (S=001%)	0,000843529	t/TJ
2015	PM 2.5	1A2f	FOREST RESIDUE CHIPS	0,007163875	t/TJ
2015	PM 2.5	1A2f	GASOIL (FOR NON-ROAD USE)	0,000576487	t/TJ
2015	PM 2.5	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,042000000	t/TJ
2015	PM 2.5	1A2f	HEAVY FUEL OIL (S<1%)	0,021595908	t/TJ
2015	PM 2.5	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,004979736	t/TJ
2015	PM 2.5	1A2f	PETROLEUM COKE	0,006187495	t/TJ
2015	PM 2.5	1A2f	PLASTIC WASTE	0,007827700	t/TJ
2015	PM 2.5	1A2f	RECOVERED FUEL (REF 2)	0,004185990	t/TJ

2015	PM 2.5	1A2f	RECOVERED WOOD	0,007163875	t/TJ
2015	PM 2.5	1A2f	RECYCLED AND WASTE OILS	0,001901400	t/TJ
2015	PM 2.5	1A2f	RUBBER WASTE	0,007827700	t/TJ
2015	PM 2.5	1A2f	SAWDUST AND CUTTER CHIPS	0,010794266	t/TJ
2015	PM 2.5	1A2gvii	DIESEL OIL (S=001%)	0,026887563	t/TJ
2015	PM 2.5	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,003467789	t/TJ
2015	PM 2.5	1A2gviii	ANIMAL-BASED FUELS	0,003697941	t/TJ
2015	PM 2.5	1A2gviii	BARK	0,000245777	t/TJ
2015	PM 2.5	1A2gviii	CHIPS FROM ROUNDWOOD	0,000299566	t/TJ
2015	PM 2.5	1A2gviii	COAL (S=1.0%)	0,026397438	t/TJ
2015	PM 2.5	1A2gviii	DIESEL OIL (S=001%)	0,000840000	t/TJ
2015	PM 2.5	1A2gviii	FOREST RESIDUE CHIPS	0,024170546	t/TJ
2015	PM 2.5	1A2gviii	FOREST WOODFUEL	0,010000000	t/TJ
2015	PM 2.5	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,001236686	t/TJ
2015	PM 2.5	1A2gviii	HEAVY FUEL OIL (S<1%)	0,048842770	t/TJ
2015	PM 2.5	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,000994448	t/TJ
2015	PM 2.5	1A2gviii	MILLED PEAT	0,001016745	t/TJ
2015	PM 2.5	1A2gviii	OTHER NON-FOSSIL SOLID	0,003305292	t/TJ
2015	PM 2.5	1A2gviii	OTHER PETROLEUM PRODUCTS	0,000840000	t/TJ
2015	PM 2.5	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,003389776	t/TJ
2015	PM 2.5	1A2gviii	RECOVERED FUEL (REF 1)	0,010000000	t/TJ
2015	PM 2.5	1A2gviii	RECYCLED AND WASTE OILS	0,026849315	t/TJ
2015	PM 2.5	1A2gviii	SAWDUST AND CUTTER CHIPS	0,025235299	t/TJ
2015	PM 2.5	1A2gviii	SOD PEAT	0,009980517	t/TJ
2015	PM 2.5	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001224479	t/TJ
2015	PM 2.5	1A2gviii	WOOD RESIDUE CHIPS	0,001182683	t/TJ
2015	PM 2.5	1A3ai(i)	KEROSENE (JET FUEL)	0,002481105	t/TJ
2015	PM 2.5	1A3aii(i)	AVIATION GASOLINE	0,010000000	t/TJ
2015	PM 2.5	1A3aii(i)	KEROSENE (JET FUEL)	0,001753782	t/TJ
2015	PM 2.5	1A3bi	DIESEL OIL (S=001%)	0,007159994	t/TJ
2015	PM 2.5	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000542298	t/TJ
2015	PM 2.5	1A3bi	NATURAL GAS	0,000515261	t/TJ
2015	PM 2.5	1A3bii	DIESEL OIL (S=001%)	0,022345870	t/TJ
2015	PM 2.5	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000572709	t/TJ
2015	PM 2.5	1A3bii	NATURAL GAS	0,000401997	t/TJ
2015	PM 2.5	1A3biii	DIESEL OIL (S=001%)	0,005678595	t/TJ
2015	PM 2.5	1A3biii	NATURAL GAS	0,000243785	t/TJ
2015	PM 2.5	1A3biv	DIESEL OIL (S=001%)	0,041421171	t/TJ
2015	PM 2.5	1A3biv	MOTOR GASOLINE (S=0.001%)	0,021697247	t/TJ
2015	PM 2.5	1A3c	GASOIL (FOR NON-ROAD USE)	0,029040077	t/TJ
2015	PM 2.5	1A3dii	DIESEL OIL (S=001%)	0,088488145	t/TJ
2015	PM 2.5	1A3dii	GASOIL (FOR NON-ROAD USE)	0,030151515	t/TJ
2015	PM 2.5	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,043175767	t/TJ
2015	PM 2.5	1A3dii	MOTOR GASOLINE (S=0.001%)	0,124062121	t/TJ
2015	PM 2.5	1A4ai	CHIPS FROM ROUNDWOOD	0,000798648	t/TJ

2015	PM 2.5	1A4ai	FOREST RESIDUE CHIPS	0,000268390	t/TJ
2015	PM 2.5	1A4ai	FOREST WOODFUEL	0,015751709	t/TJ
2015	PM 2.5	1A4ai	GASOIL (FOR NON-ROAD USE)	0,000549056	t/TJ
2015	PM 2.5	1A4ai	HEAVY FUEL OIL (S<1%)	0,045255843	t/TJ
2015	PM 2.5	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,000839278	t/TJ
2015	PM 2.5	1A4ai	MILLED PEAT	0,003500000	t/TJ
2015	PM 2.5	1A4ai	SAWDUST AND CUTTER CHIPS	0,000597040	t/TJ
2015	PM 2.5	1A4ai	SOD PEAT	0,017603427	t/TJ
2015	PM 2.5	1A4ai	WOOD RESIDUE CHIPS	0,000921942	t/TJ
2015	PM 2.5	1A4aii	DIESEL OIL (S=001%)	0,029833396	t/TJ
2015	PM 2.5	1A4aii	LIQUID GAS	0,003652094	t/TJ
2015	PM 2.5	1A4aii	MOTOR GASOLINE (S=0.001%)	0,099772862	t/TJ
2015	PM 2.5	1A4bi	COAL (S=1.0%)	0,174545455	t/TJ
2015	PM 2.5	1A4bi	FOREST WOODFUEL	0,191857874	t/TJ
2015	PM 2.5	1A4bi	HEAVY FUEL OIL (S<1%)	0,024460992	t/TJ
2015	PM 2.5	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,004900000	t/TJ
2015	PM 2.5	1A4bi	PARAFFIN	0,004900000	t/TJ
2015	PM 2.5	1A4bi	SOD PEAT	0,320000000	t/TJ
2015	PM 2.5	1A4bii	DIESEL OIL (S=001%)	0,091184397	t/TJ
2015	PM 2.5	1A4bii	MOTOR GASOLINE (S=0.001%)	0,007132004	t/TJ
2015	PM 2.5	1A4ci	FOREST WOODFUEL	0,015742250	t/TJ
2015	PM 2.5	1A4ci	HEAVY FUEL OIL (S<1%)	0,050400000	t/TJ
2015	PM 2.5	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,000840000	t/TJ
2015	PM 2.5	1A4ci	SOD PEAT	0,020000000	t/TJ
2015	PM 2.5	1A4cii	DIESEL OIL (S=001%)	0,020460394	t/TJ
2015	PM 2.5	1A4cii	MOTOR GASOLINE (S=0.001%)	0,105074221	t/TJ
2015	PM 2.5	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,033359016	t/TJ
2015	PM 2.5	1A5a	BARK	0,014763717	t/TJ
2015	PM 2.5	1A5a	FOREST RESIDUE CHIPS	0,039293001	t/TJ
2015	PM 2.5	1A5a	HEAVY FUEL OIL (S<1%)	0,033070726	t/TJ
2015	PM 2.5	1A5a	LIGHT FUEL OIL (S=0.0915%)	26,073816071	t/TJ
2015	PM 2.5	1A5a	SOD PEAT	0,013851738	t/TJ
2015	PM 2.5	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,014763717	t/TJ
2015	PM 2.5	1A5a	WOOD RESIDUE CHIPS	0,050042066	t/TJ
2015	PM 2.5	5C1a	INDUSTRIAL WASTE	0,000016251	t/TJ
2015	PM 2.5	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,000005771	t/TJ
2015	PM 2.5	5C1a	MUNICIPAL WASTE - unsorted	0,000006780	t/TJ
2015	PM 2.5	5C1a	RECOVERED FUEL (REF 3)	0,000016251	t/TJ
2015	PM 2.5	5C1bi	DEMOLITION WOOD	0,000057864	t/TJ
2015	PM 2.5	5C1bi	FOREST RESIDUE CHIPS	0,000057864	t/TJ
2015	PM 2.5	5C1bi	HAZARDOUS WASTE	0,000009553	t/TJ
2015	PM 2.5	5C1bi	HEAVY FUEL OIL (S<1%)	0,000061142	t/TJ
2015	PM 2.5	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000005723	t/TJ
2015	PM 2.5	5C1bi	MUNICIPAL WASTE - unsorted	0,000012779	t/TJ
2015	PM 2.5	5C1bi	RECOVERED FUEL (REF 2)	0,000057864	t/TJ

2015	PM 2.5	5C1bi	RECOVERED WOOD	0,000057864	t/TJ
2015	PM 2.5	5C1bi	RECYCLED AND WASTE OILS	0,000061142	t/TJ

PM10 Implied emission factors in Finnish air pollutant inventory for 2015

2015	PM 10	1A1a	ANIMAL-BASED FUELS	0,000180853	t/TJ
2015	PM 10	1A1a	BARK	0,003767659	t/TJ
2015	PM 10	1A1a	CHIPS FROM ROUNDWOOD	0,009488476	t/TJ
2015	PM 10	1A1a	COAL (S=1.0%)	0,003832551	t/TJ
2015	PM 10	1A1a	DEINKING WASTE	0,002429306	t/TJ
2015	PM 10	1A1a	DEMOLITION WOOD	0,000858483	t/TJ
2015	PM 10	1A1a	DIESEL OIL (S=001%)	0,010000000	t/TJ
2015	PM 10	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,178000000	t/TJ
2015	PM 10	1A1a	FOREST RESIDUE CHIPS	0,004450462	t/TJ
2015	PM 10	1A1a	GASOIL (FOR NON-ROAD USE)	0,004061320	t/TJ
2015	PM 10	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,001124903	t/TJ
2015	PM 10	1A1a	HEAVY FUEL OIL (S<1%)	0,021094255	t/TJ
2015	PM 10	1A1a	INDUSTRIAL WASTE	0,002026193	t/TJ
2015	PM 10	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,002474051	t/TJ
2015	PM 10	1A1a	LIQUID BIOFUELS	0,002910121	t/TJ
2015	PM 10	1A1a	MILLED PEAT	0,004408871	t/TJ
2015	PM 10	1A1a	MUNICIPAL WASTE - unsorted	0,000114997	t/TJ
2015	PM 10	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,011869005	t/TJ
2015	PM 10	1A1a	OTHER FOSSIL LIQUID	0,007715566	t/TJ
2015	PM 10	1A1a	OTHER FOSSIL SOLID	0,000897489	t/TJ
2015	PM 10	1A1a	OTHER NON-FOSSIL SOLID	0,017944802	t/TJ
2015	PM 10	1A1a	OTHER WOOD RESIDUE	0,011145234	t/TJ
2015	PM 10	1A1a	PEAT PELLETS AND BRIQUETTES	0,004250560	t/TJ
2015	PM 10	1A1a	RECOVERED FUEL (REF 2)	0,001051805	t/TJ
2015	PM 10	1A1a	RECOVERED WOOD	0,004822006	t/TJ
2015	PM 10	1A1a	RECYCLED AND WASTE OILS	0,001435019	t/TJ
2015	PM 10	1A1a	SALT TREATED WOOD	0,002896968	t/TJ
2015	PM 10	1A1a	SAWDUST AND CUTTER CHIPS	0,006600023	t/TJ
2015	PM 10	1A1a	SOD PEAT	0,014821813	t/TJ
2015	PM 10	1A1a	TALL PITCH AND OIL	0,017470831	t/TJ
2015	PM 10	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,010187974	t/TJ
2015	PM 10	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,011511657	t/TJ
2015	PM 10	1A1a	WOOD RESIDUE CHIPS	0,006869797	t/TJ
2015	PM 10	1A1b	DIESEL OIL (S=001%)	0,001637565	t/TJ
2015	PM 10	1A1b	GASOIL (FOR NON-ROAD USE)	0,001089571	t/TJ
2015	PM 10	1A1b	HEAVY FUEL OIL (S<1%)	0,010749703	t/TJ
2015	PM 10	1A1b	OTHER HEAVY DISTILLATES	0,010672448	t/TJ
2015	PM 10	1A1b	OTHER WASTE	0,052000000	t/TJ
2015	PM 10	1A1b	PETROLEUM COKE	0,008925754	t/TJ
2015	PM 10	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,052000000	t/TJ
2015	PM 10	1A2a	BLAST FURNACE GAS	0,001287588	t/TJ

2015	PM 10	1A2a	COKE (S=1.0%)	0,007151093	t/TJ
2015	PM 10	1A2a	COKE OVEN GAS	0,004790339	t/TJ
2015	PM 10	1A2a	FOREST RESIDUE CHIPS	0,028652393	t/TJ
2015	PM 10	1A2a	GASOIL (FOR NON-ROAD USE)	0,003337724	t/TJ
2015	PM 10	1A2a	HEAVY FUEL OIL (S<1%)	0,019347000	t/TJ
2015	PM 10	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,003376403	t/TJ
2015	PM 10	1A2a	LIQUID GAS	0,000050983	t/TJ
2015	PM 10	1A2a	OTHER FOSSIL LIQUID	0,064500000	t/TJ
2015	PM 10	1A2a	OTHER FOSSIL SOLID	0,000141366	t/TJ
2015	PM 10	1A2a	OXYGEN STEEL FURNACE GAS	0,000155721	t/TJ
2015	PM 10	1A2a	WOOD RESIDUE CHIPS	0,052000000	t/TJ
2015	PM 10	1A2b	CHIPS FROM ROUNDWOOD	0,104000000	t/TJ
2015	PM 10	1A2b	COAL (S=1.0%)	0,038236778	t/TJ
2015	PM 10	1A2b	COKE (S=1.0%)	0,011972736	t/TJ
2015	PM 10	1A2b	DIESEL OIL (S=001%)	0,003500000	t/TJ
2015	PM 10	1A2b	GASOIL (FOR NON-ROAD USE)	0,001237862	t/TJ
2015	PM 10	1A2b	HEAVY FUEL OIL (S<1%)	0,017736108	t/TJ
2015	PM 10	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,001280376	t/TJ
2015	PM 10	1A2b	OTHER FOSSIL SOLID	0,011972736	t/TJ
2015	PM 10	1A2b	RECYCLED AND WASTE OILS	0,019801063	t/TJ
2015	PM 10	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,052000000	t/TJ
2015	PM 10	1A2c	COAL (S=1.0%)	0,008962777	t/TJ
2015	PM 10	1A2c	DIESEL OIL (S=001%)	0,003500000	t/TJ
2015	PM 10	1A2c	GASOIL (FOR NON-ROAD USE)	0,003500000	t/TJ
2015	PM 10	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,006103536	t/TJ
2015	PM 10	1A2c	HEAVY FUEL OIL (S<1%)	0,052219097	t/TJ
2015	PM 10	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,004335821	t/TJ
2015	PM 10	1A2c	OTHER FOSSIL LIQUID	0,064500000	t/TJ
2015	PM 10	1A2c	OTHER MEDIUM DISTILLATES	0,003500000	t/TJ
2015	PM 10	1A2c	PETROLEUM COKE	0,039000000	t/TJ
2015	PM 10	1A2c	TALL PITCH AND OIL	0,064500000	t/TJ
2015	PM 10	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,049339659	t/TJ
2015	PM 10	1A2d	ANIMAL-BASED FUELS	0,000813698	t/TJ
2015	PM 10	1A2d	BARK	0,007206783	t/TJ
2015	PM 10	1A2d	BLACK LIQUOR	0,010864450	t/TJ
2015	PM 10	1A2d	CHIPS FROM ROUNDWOOD	0,032345706	t/TJ
2015	PM 10	1A2d	COAL (S=1.0%)	0,000509551	t/TJ
2015	PM 10	1A2d	DEMOLITION WOOD	0,000813698	t/TJ
2015	PM 10	1A2d	FOREST RESIDUE CHIPS	0,016160971	t/TJ
2015	PM 10	1A2d	GASOIL (FOR NON-ROAD USE)	0,048157645	t/TJ
2015	PM 10	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,002900077	t/TJ
2015	PM 10	1A2d	HEAVY FUEL OIL (S<1%)	0,012730494	t/TJ
2015	PM 10	1A2d	HYDROGEN	0,000646416	t/TJ
2015	PM 10	1A2d	INDUSTRIAL BIOGAS	0,029198860	t/TJ
2015	PM 10	1A2d	INDUSTRIAL WASTE	0,006533410	t/TJ

2015	PM 10	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,002544298	t/TJ
2015	PM 10	1A2d	LIQUID BIOFUELS	0,001011431	t/TJ
2015	PM 10	1A2d	LIQUID GAS	0,000000157	t/TJ
2015	PM 10	1A2d	METHANOL	0,004151649	t/TJ
2015	PM 10	1A2d	MILLED PEAT	0,011060919	t/TJ
2015	PM 10	1A2d	NATURAL GAS	0,002853123	t/TJ
2015	PM 10	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,041255116	t/TJ
2015	PM 10	1A2d	OTHER NON-FOSSIL SOLID	0,000498758	t/TJ
2015	PM 10	1A2d	OTHER WASTE	0,000702043	t/TJ
2015	PM 10	1A2d	OTHER WOOD RESIDUE	0,016340433	t/TJ
2015	PM 10	1A2d	PLASTIC WASTE	0,007939558	t/TJ
2015	PM 10	1A2d	RECOVERED FUEL (REF 2)	0,002214150	t/TJ
2015	PM 10	1A2d	RECOVERED WOOD	0,004517402	t/TJ
2015	PM 10	1A2d	RECYCLED AND WASTE OILS	0,001002450	t/TJ
2015	PM 10	1A2d	SALT TREATED WOOD	0,000813698	t/TJ
2015	PM 10	1A2d	SAWDUST AND CUTTER CHIPS	0,015876740	t/TJ
2015	PM 10	1A2d	SOD PEAT	0,014573058	t/TJ
2015	PM 10	1A2d	SULPHUR CONCENTRATE	0,007533333	t/TJ
2015	PM 10	1A2d	TALL PITCH AND OIL	0,003256930	t/TJ
2015	PM 10	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,024975509	t/TJ
2015	PM 10	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,104000000	t/TJ
2015	PM 10	1A2d	WOOD RESIDUE CHIPS	0,007537145	t/TJ
2015	PM 10	1A2e	BARK	0,022100000	t/TJ
2015	PM 10	1A2e	CHIPS FROM ROUNDWOOD	0,001565035	t/TJ
2015	PM 10	1A2e	COKE (S=1.0%)	0,039000000	t/TJ
2015	PM 10	1A2e	DIESEL OIL (S=001%)	0,003500000	t/TJ
2015	PM 10	1A2e	FOREST RESIDUE CHIPS	0,001565035	t/TJ
2015	PM 10	1A2e	GASOIL (FOR NON-ROAD USE)	0,000250992	t/TJ
2015	PM 10	1A2e	HEAVY FUEL OIL (S<1%)	0,044778785	t/TJ
2015	PM 10	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,001892312	t/TJ
2015	PM 10	1A2e	MILLED PEAT	0,001779266	t/TJ
2015	PM 10	1A2e	SAWDUST AND CUTTER CHIPS	0,009922729	t/TJ
2015	PM 10	1A2e	WOOD RESIDUE CHIPS	0,022100000	t/TJ
2015	PM 10	1A2f	CHIPS FROM ROUNDWOOD	0,073716759	t/TJ
2015	PM 10	1A2f	COAL (S=1.0%)	0,009965413	t/TJ
2015	PM 10	1A2f	COKE (S=1.0%)	0,025998992	t/TJ
2015	PM 10	1A2f	DIESEL OIL (S=001%)	0,003495294	t/TJ
2015	PM 10	1A2f	FOREST RESIDUE CHIPS	0,037252148	t/TJ
2015	PM 10	1A2f	GASOIL (FOR NON-ROAD USE)	0,002336340	t/TJ
2015	PM 10	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,064500000	t/TJ
2015	PM 10	1A2f	HEAVY FUEL OIL (S<1%)	0,033860023	t/TJ
2015	PM 10	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,020732347	t/TJ
2015	PM 10	1A2f	PETROLEUM COKE	0,008571804	t/TJ
2015	PM 10	1A2f	PLASTIC WASTE	0,010363434	t/TJ
2015	PM 10	1A2f	RECOVERED FUEL (REF 2)	0,006385520	t/TJ

2015	PM 10	1A2f	RECOVERED WOOD	0,037252148	t/TJ
2015	PM 10	1A2f	RECYCLED AND WASTE OILS	0,004415217	t/TJ
2015	PM 10	1A2f	RUBBER WASTE	0,010363434	t/TJ
2015	PM 10	1A2f	SAWDUST AND CUTTER CHIPS	0,056130185	t/TJ
2015	PM 10	1A2gvii	DIESEL OIL (S=001%)	0,029055429	t/TJ
2015	PM 10	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,003747387	t/TJ
2015	PM 10	1A2gviii	ANIMAL-BASED FUELS	0,019229295	t/TJ
2015	PM 10	1A2gviii	BARK	0,001189710	t/TJ
2015	PM 10	1A2gviii	CHIPS FROM ROUNDWOOD	0,001476046	t/TJ
2015	PM 10	1A2gviii	COAL (S=1.0%)	0,037167116	t/TJ
2015	PM 10	1A2gviii	DIESEL OIL (S=001%)	0,003500000	t/TJ
2015	PM 10	1A2gviii	FOREST RESIDUE CHIPS	0,027799740	t/TJ
2015	PM 10	1A2gviii	FOREST WOODFUEL	0,052000000	t/TJ
2015	PM 10	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,005152859	t/TJ
2015	PM 10	1A2gviii	HEAVY FUEL OIL (S<1%)	0,075029598	t/TJ
2015	PM 10	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,004142184	t/TJ
2015	PM 10	1A2gviii	MILLED PEAT	0,004860873	t/TJ
2015	PM 10	1A2gviii	OTHER NON-FOSSIL SOLID	0,004370174	t/TJ
2015	PM 10	1A2gviii	OTHER PETROLEUM PRODUCTS	0,003500000	t/TJ
2015	PM 10	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,005205727	t/TJ
2015	PM 10	1A2gviii	RECOVERED FUEL (REF 1)	0,052000000	t/TJ
2015	PM 10	1A2gviii	RECYCLED AND WASTE OILS	0,037123288	t/TJ
2015	PM 10	1A2gviii	SAWDUST AND CUTTER CHIPS	0,034943225	t/TJ
2015	PM 10	1A2gviii	SOD PEAT	0,051886454	t/TJ
2015	PM 10	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005943303	t/TJ
2015	PM 10	1A2gviii	WOOD RESIDUE CHIPS	0,006149950	t/TJ
2015	PM 10	1A3ai(i)	KEROSENE (JET FUEL)	0,002481105	t/TJ
2015	PM 10	1A3aii(i)	AVIATION GASOLINE	0,010000000	t/TJ
2015	PM 10	1A3aii(i)	KEROSENE (JET FUEL)	0,001753782	t/TJ
2015	PM 10	1A3bi	DIESEL OIL (S=001%)	0,008174466	t/TJ
2015	PM 10	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000619135	t/TJ
2015	PM 10	1A3bi	NATURAL GAS	0,000588266	t/TJ
2015	PM 10	1A3bii	DIESEL OIL (S=001%)	0,025511972	t/TJ
2015	PM 10	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000653854	t/TJ
2015	PM 10	1A3bii	NATURAL GAS	0,000458954	t/TJ
2015	PM 10	1A3biii	DIESEL OIL (S=001%)	0,006483173	t/TJ
2015	PM 10	1A3biii	NATURAL GAS	0,000278326	t/TJ
2015	PM 10	1A3biv	DIESEL OIL (S=001%)	0,047289979	t/TJ
2015	PM 10	1A3biv	MOTOR GASOLINE (S=0.001%)	0,024771448	t/TJ
2015	PM 10	1A3c	GASOIL (FOR NON-ROAD USE)	0,033154655	t/TJ
2015	PM 10	1A3dii	DIESEL OIL (S=001%)	0,090405845	t/TJ
2015	PM 10	1A3dii	GASOIL (FOR NON-ROAD USE)	0,030804953	t/TJ
2015	PM 10	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,044111465	t/TJ
2015	PM 10	1A3dii	MOTOR GASOLINE (S=0.001%)	0,126750773	t/TJ
2015	PM 10	1A4ai	CHIPS FROM ROUNDWOOD	0,003221182	t/TJ

2015	PM 10	1A4ai	FOREST RESIDUE CHIPS	0,000280938	t/TJ
2015	PM 10	1A4ai	FOREST WOODFUEL	0,016259829	t/TJ
2015	PM 10	1A4ai	GASOIL (FOR NON-ROAD USE)	0,002287733	t/TJ
2015	PM 10	1A4ai	HEAVY FUEL OIL (S<1%)	0,069494954	t/TJ
2015	PM 10	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,003496992	t/TJ
2015	PM 10	1A4ai	MILLED PEAT	0,018200000	t/TJ
2015	PM 10	1A4ai	SAWDUST AND CUTTER CHIPS	0,002103280	t/TJ
2015	PM 10	1A4ai	SOD PEAT	0,091537819	t/TJ
2015	PM 10	1A4ai	WOOD RESIDUE CHIPS	0,004794100	t/TJ
2015	PM 10	1A4aii	DIESEL OIL (S=001%)	0,032238777	t/TJ
2015	PM 10	1A4aii	LIQUID GAS	0,003946552	t/TJ
2015	PM 10	1A4aii	MOTOR GASOLINE (S=0.001%)	0,107817258	t/TJ
2015	PM 10	1A4bi	COAL (S=1.0%)	0,196363636	t/TJ
2015	PM 10	1A4bi	FOREST WOODFUEL	0,198046838	t/TJ
2015	PM 10	1A4bi	HEAVY FUEL OIL (S<1%)	0,060963726	t/TJ
2015	PM 10	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,006300000	t/TJ
2015	PM 10	1A4bi	PARAFFIN	0,006300000	t/TJ
2015	PM 10	1A4bi	SOD PEAT	0,360000000	t/TJ
2015	PM 10	1A4bii	DIESEL OIL (S=001%)	0,098536331	t/TJ
2015	PM 10	1A4bii	MOTOR GASOLINE (S=0.001%)	0,007707037	t/TJ
2015	PM 10	1A4ci	FOREST WOODFUEL	0,016250065	t/TJ
2015	PM 10	1A4ci	HEAVY FUEL OIL (S<1%)	0,077400000	t/TJ
2015	PM 10	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,003500000	t/TJ
2015	PM 10	1A4ci	SOD PEAT	0,104000000	t/TJ
2015	PM 10	1A4cii	DIESEL OIL (S=001%)	0,022110057	t/TJ
2015	PM 10	1A4cii	MOTOR GASOLINE (S=0.001%)	0,113546051	t/TJ
2015	PM 10	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,034081967	t/TJ
2015	PM 10	1A5a	BARK	0,056279045	t/TJ
2015	PM 10	1A5a	FOREST RESIDUE CHIPS	0,055195951	t/TJ
2015	PM 10	1A5a	HEAVY FUEL OIL (S<1%)	0,050787186	t/TJ
2015	PM 10	1A5a	LIGHT FUEL OIL (S=0.0915%)	26,758141701	t/TJ
2015	PM 10	1A5a	SOD PEAT	0,052792272	t/TJ
2015	PM 10	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,056279045	t/TJ
2015	PM 10	1A5a	WOOD RESIDUE CHIPS	0,054721324	t/TJ
2015	PM 10	5C1a	INDUSTRIAL WASTE	0,000084506	t/TJ
2015	PM 10	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,000024046	t/TJ
2015	PM 10	5C1a	MUNICIPAL WASTE - unsorted	0,000035255	t/TJ
2015	PM 10	5C1a	RECOVERED FUEL (REF 3)	0,000084506	t/TJ
2015	PM 10	5C1bi	DEMOLITION WOOD	0,000300893	t/TJ
2015	PM 10	5C1bi	FOREST RESIDUE CHIPS	0,000300893	t/TJ
2015	PM 10	5C1bi	HAZARDOUS WASTE	0,000049678	t/TJ
2015	PM 10	5C1bi	HEAVY FUEL OIL (S<1%)	0,000093896	t/TJ
2015	PM 10	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000023848	t/TJ
2015	PM 10	5C1bi	MUNICIPAL WASTE - unsorted	0,000066452	t/TJ
2015	PM 10	5C1bi	RECOVERED FUEL (REF 2)	0,000300893	t/TJ

2015	PM 10	5C1bi	RECOVERED WOOD	0,000300893	t/TJ
2015	PM 10	5C1bi	RECYCLED AND WASTE OILS	0,000093896	t/TJ

TSP Implied emission factors in Finnish air pollutant inventory for 2015

2015	TSP	1A1a	ANIMAL-BASED FUELS	0,000352431	t/TJ
2015	TSP	1A1a	BARK	0,006843532	t/TJ
2015	TSP	1A1a	CHIPS FROM ROUNDWOOD	0,018211715	t/TJ
2015	TSP	1A1a	COAL (S=1.0%)	0,004584007	t/TJ
2015	TSP	1A1a	DEINKING WASTE	0,002867766	t/TJ
2015	TSP	1A1a	DEMOLITION WOOD	0,001035237	t/TJ
2015	TSP	1A1a	DIESEL OIL (S=001%)	0,020000000	t/TJ
2015	TSP	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,200000000	t/TJ
2015	TSP	1A1a	FOREST RESIDUE CHIPS	0,008212773	t/TJ
2015	TSP	1A1a	GASOIL (FOR NON-ROAD USE)	0,008122640	t/TJ
2015	TSP	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,001212073	t/TJ
2015	TSP	1A1a	HEAVY FUEL OIL (S<1%)	0,024446044	t/TJ
2015	TSP	1A1a	INDUSTRIAL WASTE	0,003236589	t/TJ
2015	TSP	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,004948102	t/TJ
2015	TSP	1A1a	LIQUID BIOFUELS	0,005820242	t/TJ
2015	TSP	1A1a	MILLED PEAT	0,006165023	t/TJ
2015	TSP	1A1a	MUNICIPAL WASTE - unsorted	0,000235609	t/TJ
2015	TSP	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,014047548	t/TJ
2015	TSP	1A1a	OTHER FOSSIL LIQUID	0,008313451	t/TJ
2015	TSP	1A1a	OTHER FOSSIL SOLID	0,001059474	t/TJ
2015	TSP	1A1a	OTHER NON-FOSSIL SOLID	0,019990738	t/TJ
2015	TSP	1A1a	OTHER WOOD RESIDUE	0,019039715	t/TJ
2015	TSP	1A1a	PEAT PELLETS AND BRIQUETTES	0,006016541	t/TJ
2015	TSP	1A1a	RECOVERED FUEL (REF 2)	0,001548029	t/TJ
2015	TSP	1A1a	RECOVERED WOOD	0,006525683	t/TJ
2015	TSP	1A1a	RECYCLED AND WASTE OILS	0,001535363	t/TJ
2015	TSP	1A1a	SALT TREATED WOOD	0,003431694	t/TJ
2015	TSP	1A1a	SAWDUST AND CUTTER CHIPS	0,015205167	t/TJ
2015	TSP	1A1a	SOD PEAT	0,034212598	t/TJ
2015	TSP	1A1a	TALL PITCH AND OIL	0,020111103	t/TJ
2015	TSP	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,027145052	t/TJ
2015	TSP	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,024389506	t/TJ
2015	TSP	1A1a	WOOD RESIDUE CHIPS	0,015947683	t/TJ
2015	TSP	1A1b	DIESEL OIL (S=001%)	0,003275130	t/TJ
2015	TSP	1A1b	GASOIL (FOR NON-ROAD USE)	0,002179142	t/TJ
2015	TSP	1A1b	HEAVY FUEL OIL (S<1%)	0,012499655	t/TJ
2015	TSP	1A1b	OTHER HEAVY DISTILLATES	0,012409823	t/TJ
2015	TSP	1A1b	OTHER WASTE	0,200000000	t/TJ
2015	TSP	1A1b	PETROLEUM COKE	0,034329823	t/TJ
2015	TSP	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,200000000	t/TJ
2015	TSP	1A2a	BLAST FURNACE GAS	0,003096408	t/TJ

2015	TSP	1A2a	COKE (S=1.0%)	0,021955471	t/TJ
2015	TSP	1A2a	COKE OVEN GAS	0,007155786	t/TJ
2015	TSP	1A2a	FOREST RESIDUE CHIPS	0,110201511	t/TJ
2015	TSP	1A2a	GASOIL (FOR NON-ROAD USE)	0,006667703	t/TJ
2015	TSP	1A2a	HEAVY FUEL OIL (S<1%)	0,022496511	t/TJ
2015	TSP	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,006752806	t/TJ
2015	TSP	1A2a	LIQUID GAS	0,000082765	t/TJ
2015	TSP	1A2a	OTHER FOSSIL LIQUID	0,075000000	t/TJ
2015	TSP	1A2a	OTHER FOSSIL SOLID	0,000275482	t/TJ
2015	TSP	1A2a	OXYGEN STEEL FURNACE GAS	0,000252793	t/TJ
2015	TSP	1A2a	WOOD RESIDUE CHIPS	0,200000000	t/TJ
2015	TSP	1A2b	CHIPS FROM ROUNDWOOD	0,400000000	t/TJ
2015	TSP	1A2b	COAL (S=1.0%)	0,147064530	t/TJ
2015	TSP	1A2b	COKE (S=1.0%)	0,046048984	t/TJ
2015	TSP	1A2b	DIESEL OIL (S=001%)	0,007000000	t/TJ
2015	TSP	1A2b	GASOIL (FOR NON-ROAD USE)	0,002475724	t/TJ
2015	TSP	1A2b	HEAVY FUEL OIL (S<1%)	0,020623382	t/TJ
2015	TSP	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,002560753	t/TJ
2015	TSP	1A2b	OTHER FOSSIL SOLID	0,046048984	t/TJ
2015	TSP	1A2b	RECYCLED AND WASTE OILS	0,023024492	t/TJ
2015	TSP	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,200000000	t/TJ
2015	TSP	1A2c	COAL (S=1.0%)	0,011897491	t/TJ
2015	TSP	1A2c	DIESEL OIL (S=001%)	0,007000000	t/TJ
2015	TSP	1A2c	GASOIL (FOR NON-ROAD USE)	0,007000000	t/TJ
2015	TSP	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,007097135	t/TJ
2015	TSP	1A2c	HEAVY FUEL OIL (S<1%)	0,060719881	t/TJ
2015	TSP	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,008671641	t/TJ
2015	TSP	1A2c	OTHER FOSSIL LIQUID	0,075000000	t/TJ
2015	TSP	1A2c	OTHER MEDIUM DISTILLATES	0,007000000	t/TJ
2015	TSP	1A2c	PETROLEUM COKE	0,150000000	t/TJ
2015	TSP	1A2c	TALL PITCH AND OIL	0,075000000	t/TJ
2015	TSP	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,189767918	t/TJ
2015	TSP	1A2d	ANIMAL-BASED FUELS	0,001080130	t/TJ
2015	TSP	1A2d	BARK	0,012644858	t/TJ
2015	TSP	1A2d	BLACK LIQUOR	0,011624599	t/TJ
2015	TSP	1A2d	CHIPS FROM ROUNDWOOD	0,045737892	t/TJ
2015	TSP	1A2d	COAL (S=1.0%)	0,000672769	t/TJ
2015	TSP	1A2d	DEMOLITION WOOD	0,001080130	t/TJ
2015	TSP	1A2d	FOREST RESIDUE CHIPS	0,019130075	t/TJ
2015	TSP	1A2d	GASOIL (FOR NON-ROAD USE)	0,053550282	t/TJ
2015	TSP	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,004728571	t/TJ
2015	TSP	1A2d	HEAVY FUEL OIL (S<1%)	0,016877027	t/TJ
2015	TSP	1A2d	HYDROGEN	0,003402189	t/TJ
2015	TSP	1A2d	INDUSTRIAL BIOGAS	0,029307004	t/TJ
2015	TSP	1A2d	INDUSTRIAL WASTE	0,008672669	t/TJ

2015	TSP	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,005784168	t/TJ
2015	TSP	1A2d	LIQUID BIOFUELS	0,004776328	t/TJ
2015	TSP	1A2d	LIQUID GAS	0,000000464	t/TJ
2015	TSP	1A2d	METHANOL	0,005711493	t/TJ
2015	TSP	1A2d	MILLED PEAT	0,012232814	t/TJ
2015	TSP	1A2d	NATURAL GAS	0,004058159	t/TJ
2015	TSP	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,052182293	t/TJ
2015	TSP	1A2d	OTHER NON-FOSSIL SOLID	0,000662069	t/TJ
2015	TSP	1A2d	OTHER WASTE	0,000828753	t/TJ
2015	TSP	1A2d	OTHER WOOD RESIDUE	0,059083650	t/TJ
2015	TSP	1A2d	PLASTIC WASTE	0,015452564	t/TJ
2015	TSP	1A2d	RECOVERED FUEL (REF 2)	0,003588068	t/TJ
2015	TSP	1A2d	RECOVERED WOOD	0,005392608	t/TJ
2015	TSP	1A2d	RECYCLED AND WASTE OILS	0,001080130	t/TJ
2015	TSP	1A2d	SALT TREATED WOOD	0,001080130	t/TJ
2015	TSP	1A2d	SAWDUST AND CUTTER CHIPS	0,035099495	t/TJ
2015	TSP	1A2d	SOD PEAT	0,051009826	t/TJ
2015	TSP	1A2d	SULPHUR CONCENTRATE	0,010000000	t/TJ
2015	TSP	1A2d	TALL PITCH AND OIL	0,007263061	t/TJ
2015	TSP	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,064068626	t/TJ
2015	TSP	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,400000000	t/TJ
2015	TSP	1A2d	WOOD RESIDUE CHIPS	0,016974125	t/TJ
2015	TSP	1A2e	BARK	0,085000000	t/TJ
2015	TSP	1A2e	CHIPS FROM ROUNDWOOD	0,006019365	t/TJ
2015	TSP	1A2e	COKE (S=1.0%)	0,150000000	t/TJ
2015	TSP	1A2e	DIESEL OIL (S=001%)	0,007000000	t/TJ
2015	TSP	1A2e	FOREST RESIDUE CHIPS	0,006019365	t/TJ
2015	TSP	1A2e	GASOIL (FOR NON-ROAD USE)	0,000501983	t/TJ
2015	TSP	1A2e	HEAVY FUEL OIL (S<1%)	0,052068355	t/TJ
2015	TSP	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,003784624	t/TJ
2015	TSP	1A2e	MILLED PEAT	0,006254732	t/TJ
2015	TSP	1A2e	SAWDUST AND CUTTER CHIPS	0,038164343	t/TJ
2015	TSP	1A2e	WOOD RESIDUE CHIPS	0,085000000	t/TJ
2015	TSP	1A2f	CHIPS FROM ROUNDWOOD	0,283525996	t/TJ
2015	TSP	1A2f	COAL (S=1.0%)	0,030273054	t/TJ
2015	TSP	1A2f	COKE (S=1.0%)	0,096949727	t/TJ
2015	TSP	1A2f	DIESEL OIL (S=001%)	0,007000000	t/TJ
2015	TSP	1A2f	FOREST RESIDUE CHIPS	0,143277491	t/TJ
2015	TSP	1A2f	GASOIL (FOR NON-ROAD USE)	0,004704528	t/TJ
2015	TSP	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,075000000	t/TJ
2015	TSP	1A2f	HEAVY FUEL OIL (S<1%)	0,039509376	t/TJ
2015	TSP	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,041472719	t/TJ
2015	TSP	1A2f	PETROLEUM COKE	0,010275651	t/TJ
2015	TSP	1A2f	PLASTIC WASTE	0,011024929	t/TJ
2015	TSP	1A2f	RECOVERED FUEL (REF 2)	0,009361325	t/TJ

2015	TSP	1A2f	RECOVERED WOOD	0,143277491	t/TJ
2015	TSP	1A2f	RECYCLED AND WASTE OILS	0,005217423	t/TJ
2015	TSP	1A2f	RUBBER WASTE	0,011024929	t/TJ
2015	TSP	1A2f	SAWDUST AND CUTTER CHIPS	0,215885326	t/TJ
2015	TSP	1A2gvii	DIESEL OIL (S=001%)	0,030109253	t/TJ
2015	TSP	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,003883302	t/TJ
2015	TSP	1A2gviii	ANIMAL-BASED FUELS	0,073958825	t/TJ
2015	TSP	1A2gviii	BARK	0,001404439	t/TJ
2015	TSP	1A2gviii	CHIPS FROM ROUNDWOOD	0,002227784	t/TJ
2015	TSP	1A2gviii	COAL (S=1.0%)	0,042568898	t/TJ
2015	TSP	1A2gviii	DIESEL OIL (S=001%)	0,007000000	t/TJ
2015	TSP	1A2gviii	FOREST RESIDUE CHIPS	0,029131488	t/TJ
2015	TSP	1A2gviii	FOREST WOODFUEL	0,200000000	t/TJ
2015	TSP	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,010305719	t/TJ
2015	TSP	1A2gviii	HEAVY FUEL OIL (S<1%)	0,087275305	t/TJ
2015	TSP	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,008283832	t/TJ
2015	TSP	1A2gviii	MILLED PEAT	0,005885265	t/TJ
2015	TSP	1A2gviii	OTHER NON-FOSSIL SOLID	0,005149398	t/TJ
2015	TSP	1A2gviii	OTHER PETROLEUM PRODUCTS	0,007000000	t/TJ
2015	TSP	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,006053171	t/TJ
2015	TSP	1A2gviii	RECOVERED FUEL (REF 1)	0,200000000	t/TJ
2015	TSP	1A2gviii	RECYCLED AND WASTE OILS	0,040000000	t/TJ
2015	TSP	1A2gviii	SAWDUST AND CUTTER CHIPS	0,037658437	t/TJ
2015	TSP	1A2gviii	SOD PEAT	0,199471982	t/TJ
2015	TSP	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,007635935	t/TJ
2015	TSP	1A2gviii	WOOD RESIDUE CHIPS	0,012522523	t/TJ
2015	TSP	1A3ai(i)	KEROSENE (JET FUEL)	0,002481105	t/TJ
2015	TSP	1A3aii(i)	AVIATION GASOLINE	0,010000000	t/TJ
2015	TSP	1A3aii(i)	KEROSENE (JET FUEL)	0,001753782	t/TJ
2015	TSP	1A3bi	DIESEL OIL (S=001%)	0,008384067	t/TJ
2015	TSP	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000635010	t/TJ
2015	TSP	1A3bi	NATURAL GAS	0,000603350	t/TJ
2015	TSP	1A3bii	DIESEL OIL (S=001%)	0,026166125	t/TJ
2015	TSP	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000670619	t/TJ
2015	TSP	1A3bii	NATURAL GAS	0,000470722	t/TJ
2015	TSP	1A3biii	DIESEL OIL (S=001%)	0,006649409	t/TJ
2015	TSP	1A3biii	NATURAL GAS	0,000285463	t/TJ
2015	TSP	1A3biv	DIESEL OIL (S=001%)	0,048502542	t/TJ
2015	TSP	1A3biv	MOTOR GASOLINE (S=0.001%)	0,025406613	t/TJ
2015	TSP	1A3c	GASOIL (FOR NON-ROAD USE)	0,034004775	t/TJ
2015	TSP	1A3dii	DIESEL OIL (S=001%)	0,091319035	t/TJ
2015	TSP	1A3dii	GASOIL (FOR NON-ROAD USE)	0,031116114	t/TJ
2015	TSP	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,044557036	t/TJ
2015	TSP	1A3dii	MOTOR GASOLINE (S=0.001%)	0,128031084	t/TJ
2015	TSP	1A4ai	CHIPS FROM ROUNDWOOD	0,011722371	t/TJ

2015	TSP	1A4ai	FOREST RESIDUE CHIPS	0,000282855	t/TJ
2015	TSP	1A4ai	FOREST WOODFUEL	0,016937322	t/TJ
2015	TSP	1A4ai	GASOIL (FOR NON-ROAD USE)	0,004575467	t/TJ
2015	TSP	1A4ai	HEAVY FUEL OIL (S<1%)	0,080804162	t/TJ
2015	TSP	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,006993984	t/TJ
2015	TSP	1A4ai	MILLED PEAT	0,070000000	t/TJ
2015	TSP	1A4ai	SAWDUST AND CUTTER CHIPS	0,007372985	t/TJ
2015	TSP	1A4ai	SOD PEAT	0,352068535	t/TJ
2015	TSP	1A4ai	WOOD RESIDUE CHIPS	0,018438844	t/TJ
2015	TSP	1A4aii	DIESEL OIL (S=001%)	0,033408059	t/TJ
2015	TSP	1A4aii	LIQUID GAS	0,004089691	t/TJ
2015	TSP	1A4aii	MOTOR GASOLINE (S=0.001%)	0,111727729	t/TJ
2015	TSP	1A4bi	COAL (S=1.0%)	0,218181818	t/TJ
2015	TSP	1A4bi	FOREST WOODFUEL	0,206298789	t/TJ
2015	TSP	1A4bi	HEAVY FUEL OIL (S<1%)	0,095364066	t/TJ
2015	TSP	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,007000000	t/TJ
2015	TSP	1A4bi	PARAFFIN	0,007000000	t/TJ
2015	TSP	1A4bi	SOD PEAT	0,400000000	t/TJ
2015	TSP	1A4bii	DIESEL OIL (S=001%)	0,102110187	t/TJ
2015	TSP	1A4bii	MOTOR GASOLINE (S=0.001%)	0,007986567	t/TJ
2015	TSP	1A4ci	FOREST WOODFUEL	0,016927151	t/TJ
2015	TSP	1A4ci	HEAVY FUEL OIL (S<1%)	0,090000000	t/TJ
2015	TSP	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,007000000	t/TJ
2015	TSP	1A4ci	SOD PEAT	0,400000000	t/TJ
2015	TSP	1A4cii	DIESEL OIL (S=001%)	0,022911976	t/TJ
2015	TSP	1A4cii	MOTOR GASOLINE (S=0.001%)	0,117664301	t/TJ
2015	TSP	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,034426230	t/TJ
2015	TSP	1A5a	BARK	0,066436726	t/TJ
2015	TSP	1A5a	FOREST RESIDUE CHIPS	0,059285056	t/TJ
2015	TSP	1A5a	HEAVY FUEL OIL (S<1%)	0,059054868	t/TJ
2015	TSP	1A5a	LIGHT FUEL OIL (S=0.0915%)	27,087391815	t/TJ
2015	TSP	1A5a	SOD PEAT	0,065045433	t/TJ
2015	TSP	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,066436726	t/TJ
2015	TSP	1A5a	WOOD RESIDUE CHIPS	0,056151097	t/TJ
2015	TSP	5C1a	INDUSTRIAL WASTE	0,000325023	t/TJ
2015	TSP	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,000048091	t/TJ
2015	TSP	5C1a	MUNICIPAL WASTE - unsorted	0,000068702	t/TJ
2015	TSP	5C1a	RECOVERED FUEL (REF 3)	0,000325023	t/TJ
2015	TSP	5C1bi	DEMOLITION WOOD	0,001157281	t/TJ
2015	TSP	5C1bi	FOREST RESIDUE CHIPS	0,001157281	t/TJ
2015	TSP	5C1bi	HAZARDOUS WASTE	0,000191068	t/TJ
2015	TSP	5C1bi	HEAVY FUEL OIL (S<1%)	0,000109182	t/TJ
2015	TSP	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000047695	t/TJ
2015	TSP	5C1bi	MUNICIPAL WASTE - unsorted	0,000255583	t/TJ
2015	TSP	5C1bi	RECOVERED FUEL (REF 2)	0,001157281	t/TJ

2015	TSP	5C1bi	RECOVERED WOOD	0,001157281	t/TJ
2015	TSP	5C1bi	RECYCLED AND WASTE OILS	0,000109182	t/TJ

BC Implied emission factors in Finnish air pollutant inventory for 2015

2015	BC	1A1a	ANIMAL-BASED FUELS	0,000025041	t/TJ
2015	BC	1A1a	BARK	0,000040488	t/TJ
2015	BC	1A1a	CHIPS FROM ROUNDWOOD	0,000161009	t/TJ
2015	BC	1A1a	COAL (S=1.0%)	0,000018381	t/TJ
2015	BC	1A1a	DEMOLITION WOOD	0,000011498	t/TJ
2015	BC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,005082000	t/TJ
2015	BC	1A1a	FOREST RESIDUE CHIPS	0,000059374	t/TJ
2015	BC	1A1a	GASOIL (FOR NON-ROAD USE)	0,000391028	t/TJ
2015	BC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000101698	t/TJ
2015	BC	1A1a	HEAVY FUEL OIL (S<1%)	0,003892916	t/TJ
2015	BC	1A1a	INDUSTRIAL WASTE	0,000071018	t/TJ
2015	BC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,000198914	t/TJ
2015	BC	1A1a	LIQUID BIOFUELS	0,000023048	t/TJ
2015	BC	1A1a	MILLED PEAT	0,000047305	t/TJ
2015	BC	1A1a	MUNICIPAL WASTE - unsorted	0,000000199	t/TJ
2015	BC	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000161124	t/TJ
2015	BC	1A1a	OTHER FOSSIL LIQUID	0,001869388	t/TJ
2015	BC	1A1a	OTHER FOSSIL SOLID	0,000005827	t/TJ
2015	BC	1A1a	OTHER NON-FOSSIL SOLID	0,000412064	t/TJ
2015	BC	1A1a	OTHER WOOD RESIDUE	0,000074455	t/TJ
2015	BC	1A1a	PEAT PELLETS AND BRIQUETTES	0,000046715	t/TJ
2015	BC	1A1a	RECOVERED FUEL (REF 2)	0,000017339	t/TJ
2015	BC	1A1a	RECOVERED WOOD	0,000101218	t/TJ
2015	BC	1A1a	RECYCLED AND WASTE OILS	0,000336400	t/TJ
2015	BC	1A1a	SALT TREATED WOOD	0,000039387	t/TJ
2015	BC	1A1a	SAWDUST AND CUTTER CHIPS	0,000076059	t/TJ
2015	BC	1A1a	SOD PEAT	0,000122753	t/TJ
2015	BC	1A1a	TALL PITCH AND OIL	0,000646721	t/TJ
2015	BC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000102333	t/TJ
2015	BC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000137055	t/TJ
2015	BC	1A1a	WOOD RESIDUE CHIPS	0,000068532	t/TJ
2015	BC	1A1b	GASOIL (FOR NON-ROAD USE)	0,000087602	t/TJ
2015	BC	1A1b	HEAVY FUEL OIL (S<1%)	0,000888596	t/TJ
2015	BC	1A1b	OTHER HEAVY DISTILLATES	0,000389172	t/TJ
2015	BC	1A1b	OTHER WASTE	0,003350000	t/TJ
2015	BC	1A1b	PETROLEUM COKE	0,000034330	t/TJ
2015	BC	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000330000	t/TJ
2015	BC	1A2a	BLAST FURNACE GAS	0,000054670	t/TJ
2015	BC	1A2a	COKE (S=1.0%)	0,000030779	t/TJ
2015	BC	1A2a	COKE OVEN GAS	0,000200198	t/TJ
2015	BC	1A2a	FOREST RESIDUE CHIPS	0,000181832	t/TJ

2015	BC	1A2a	GASOIL (FOR NON-ROAD USE)	0,000268478	t/TJ
2015	BC	1A2a	HEAVY FUEL OIL (S<1%)	0,001996326	t/TJ
2015	BC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,000271463	t/TJ
2015	BC	1A2a	LIQUID GAS	0,000000921	t/TJ
2015	BC	1A2a	OTHER FOSSIL LIQUID	0,002352000	t/TJ
2015	BC	1A2a	OTHER FOSSIL SOLID	0,000001522	t/TJ
2015	BC	1A2a	OXYGEN STEEL FURNACE GAS	0,000002814	t/TJ
2015	BC	1A2a	WOOD RESIDUE CHIPS	0,000330000	t/TJ
2015	BC	1A2b	CHIPS FROM ROUNDWOOD	0,001120000	t/TJ
2015	BC	1A2b	COAL (S=1.0%)	0,000160341	t/TJ
2015	BC	1A2b	COKE (S=1.0%)	0,000046049	t/TJ
2015	BC	1A2b	DIESEL OIL (S=001%)	0,000281400	t/TJ
2015	BC	1A2b	GASOIL (FOR NON-ROAD USE)	0,000099524	t/TJ
2015	BC	1A2b	HEAVY FUEL OIL (S<1%)	0,003368170	t/TJ
2015	BC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,000102942	t/TJ
2015	BC	1A2b	OTHER FOSSIL SOLID	0,000050654	t/TJ
2015	BC	1A2b	RECYCLED AND WASTE OILS	0,004319395	t/TJ
2015	BC	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000330000	t/TJ
2015	BC	1A2c	COAL (S=1.0%)	0,000065436	t/TJ
2015	BC	1A2c	DIESEL OIL (S=001%)	0,000281400	t/TJ
2015	BC	1A2c	GASOIL (FOR NON-ROAD USE)	0,000281400	t/TJ
2015	BC	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,001192319	t/TJ
2015	BC	1A2c	HEAVY FUEL OIL (S<1%)	0,010200940	t/TJ
2015	BC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,000348600	t/TJ
2015	BC	1A2c	OTHER FOSSIL LIQUID	0,002352000	t/TJ
2015	BC	1A2c	OTHER MEDIUM DISTILLATES	0,000252000	t/TJ
2015	BC	1A2c	PETROLEUM COKE	0,000150000	t/TJ
2015	BC	1A2c	TALL PITCH AND OIL	0,002352000	t/TJ
2015	BC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000313117	t/TJ
2015	BC	1A2d	ANIMAL-BASED FUELS	0,000259231	t/TJ
2015	BC	1A2d	BARK	0,000094306	t/TJ
2015	BC	1A2d	CHIPS FROM ROUNDWOOD	0,000419563	t/TJ
2015	BC	1A2d	COAL (S=1.0%)	0,000003700	t/TJ
2015	BC	1A2d	DEMOLITION WOOD	0,000011881	t/TJ
2015	BC	1A2d	FOREST RESIDUE CHIPS	0,000220254	t/TJ
2015	BC	1A2d	GASOIL (FOR NON-ROAD USE)	0,011229590	t/TJ
2015	BC	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000380437	t/TJ
2015	BC	1A2d	HEAVY FUEL OIL (S<1%)	0,001984794	t/TJ
2015	BC	1A2d	INDUSTRIAL BIOGAS	0,001816818	t/TJ
2015	BC	1A2d	INDUSTRIAL WASTE	0,000182126	t/TJ
2015	BC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,000248316	t/TJ
2015	BC	1A2d	LIQUID BIOFUELS	0,000023311	t/TJ
2015	BC	1A2d	LIQUID GAS	0,000000008	t/TJ
2015	BC	1A2d	METHANOL	0,000064928	t/TJ
2015	BC	1A2d	MILLED PEAT	0,000131163	t/TJ

2015	BC	1A2d	NATURAL GAS	0,000171890	t/TJ
2015	BC	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000684090	t/TJ
2015	BC	1A2d	OTHER NON-FOSSIL SOLID	0,000007283	t/TJ
2015	BC	1A2d	OTHER WASTE	0,000097171	t/TJ
2015	BC	1A2d	OTHER WOOD RESIDUE	0,000104095	t/TJ
2015	BC	1A2d	PLASTIC WASTE	0,001104947	t/TJ
2015	BC	1A2d	RECOVERED FUEL (REF 2)	0,000012507	t/TJ
2015	BC	1A2d	RECOVERED WOOD	0,000061987	t/TJ
2015	BC	1A2d	RECYCLED AND WASTE OILS	0,000242881	t/TJ
2015	BC	1A2d	SALT TREATED WOOD	0,000011881	t/TJ
2015	BC	1A2d	SAWDUST AND CUTTER CHIPS	0,000197234	t/TJ
2015	BC	1A2d	SOD PEAT	0,000093988	t/TJ
2015	BC	1A2d	TALL PITCH AND OIL	0,000758613	t/TJ
2015	BC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000221016	t/TJ
2015	BC	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001120000	t/TJ
2015	BC	1A2d	WOOD RESIDUE CHIPS	0,000128128	t/TJ
2015	BC	1A2e	BARK	0,000140250	t/TJ
2015	BC	1A2e	CHIPS FROM ROUNDWOOD	0,000009932	t/TJ
2015	BC	1A2e	COKE (S=1.0%)	0,000150000	t/TJ
2015	BC	1A2e	DIESEL OIL (S=001%)	0,000281400	t/TJ
2015	BC	1A2e	FOREST RESIDUE CHIPS	0,000009932	t/TJ
2015	BC	1A2e	GASOIL (FOR NON-ROAD USE)	0,000020180	t/TJ
2015	BC	1A2e	HEAVY FUEL OIL (S<1%)	0,008747484	t/TJ
2015	BC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,000152142	t/TJ
2015	BC	1A2e	MILLED PEAT	0,000011291	t/TJ
2015	BC	1A2e	SAWDUST AND CUTTER CHIPS	0,000062971	t/TJ
2015	BC	1A2e	WOOD RESIDUE CHIPS	0,000140250	t/TJ
2015	BC	1A2f	CHIPS FROM ROUNDWOOD	0,000467818	t/TJ
2015	BC	1A2f	COAL (S=1.0%)	0,000073490	t/TJ
2015	BC	1A2f	COKE (S=1.0%)	0,000112297	t/TJ
2015	BC	1A2f	DIESEL OIL (S=001%)	0,000282582	t/TJ
2015	BC	1A2f	FOREST RESIDUE CHIPS	0,000236408	t/TJ
2015	BC	1A2f	GASOIL (FOR NON-ROAD USE)	0,000193123	t/TJ
2015	BC	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,012600000	t/TJ
2015	BC	1A2f	HEAVY FUEL OIL (S<1%)	0,006478772	t/TJ
2015	BC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,001668211	t/TJ
2015	BC	1A2f	PETROLEUM COKE	0,000123750	t/TJ
2015	BC	1A2f	PLASTIC WASTE	0,005635944	t/TJ
2015	BC	1A2f	RECOVERED FUEL (REF 2)	0,000083720	t/TJ
2015	BC	1A2f	RECOVERED WOOD	0,000236408	t/TJ
2015	BC	1A2f	RECYCLED AND WASTE OILS	0,000636969	t/TJ
2015	BC	1A2f	RUBBER WASTE	0,002622279	t/TJ
2015	BC	1A2f	SAWDUST AND CUTTER CHIPS	0,000356211	t/TJ
2015	BC	1A2gvii	DIESEL OIL (S=001%)	0,018667737	t/TJ
2015	BC	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,000194165	t/TJ

2015	BC	1A2gviii	ANIMAL-BASED FUELS	0,002662518	t/TJ
2015	BC	1A2gviii	BARK	0,000008111	t/TJ
2015	BC	1A2gviii	CHIPS FROM ROUNDWOOD	0,000009886	t/TJ
2015	BC	1A2gviii	COAL (S=1.0%)	0,000580744	t/TJ
2015	BC	1A2gviii	DIESEL OIL (S=001%)	0,000256940	t/TJ
2015	BC	1A2gviii	FOREST RESIDUE CHIPS	0,000797628	t/TJ
2015	BC	1A2gviii	FOREST WOODFUEL	0,002800000	t/TJ
2015	BC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,000943700	t/TJ
2015	BC	1A2gviii	HEAVY FUEL OIL (S<1%)	0,014652831	t/TJ
2015	BC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,000333140	t/TJ
2015	BC	1A2gviii	MILLED PEAT	0,000033553	t/TJ
2015	BC	1A2gviii	OTHER NON-FOSSIL SOLID	0,000109075	t/TJ
2015	BC	1A2gviii	OTHER PETROLEUM PRODUCTS	0,000047040	t/TJ
2015	BC	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,000189827	t/TJ
2015	BC	1A2gviii	RECOVERED FUEL (REF 1)	0,000200000	t/TJ
2015	BC	1A2gviii	RECYCLED AND WASTE OILS	0,008994521	t/TJ
2015	BC	1A2gviii	SAWDUST AND CUTTER CHIPS	0,000832765	t/TJ
2015	BC	1A2gviii	SOD PEAT	0,000329357	t/TJ
2015	BC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000065705	t/TJ
2015	BC	1A2gviii	WOOD RESIDUE CHIPS	0,000039029	t/TJ
2015	BC	1A3bi	DIESEL OIL (S=001%)	0,004778918	t/TJ
2015	BC	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000076201	t/TJ
2015	BC	1A3bii	DIESEL OIL (S=001%)	0,014391369	t/TJ
2015	BC	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000033531	t/TJ
2015	BC	1A3biii	DIESEL OIL (S=001%)	0,003524187	t/TJ
2015	BC	1A3biv	DIESEL OIL (S=001%)	0,027646449	t/TJ
2015	BC	1A3biv	MOTOR GASOLINE (S=0.001%)	0,002794727	t/TJ
2015	BC	1A3c	GASOIL (FOR NON-ROAD USE)	0,018876050	t/TJ
2015	BC	1A3dii	DIESEL OIL (S=001%)	0,028308901	t/TJ
2015	BC	1A3dii	GASOIL (FOR NON-ROAD USE)	0,009645995	t/TJ
2015	BC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,005346844	t/TJ
2015	BC	1A3dii	MOTOR GASOLINE (S=0.001%)	0,006401554	t/TJ
2015	BC	1A4ai	CHIPS FROM ROUNDWOOD	0,000026355	t/TJ
2015	BC	1A4ai	FOREST RESIDUE CHIPS	0,000008857	t/TJ
2015	BC	1A4ai	FOREST WOODFUEL	0,000506090	t/TJ
2015	BC	1A4ai	GASOIL (FOR NON-ROAD USE)	0,000183934	t/TJ
2015	BC	1A4ai	HEAVY FUEL OIL (S<1%)	0,013576753	t/TJ
2015	BC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,000281158	t/TJ
2015	BC	1A4ai	MILLED PEAT	0,000115500	t/TJ
2015	BC	1A4ai	SAWDUST AND CUTTER CHIPS	0,000019702	t/TJ
2015	BC	1A4ai	SOD PEAT	0,000580913	t/TJ
2015	BC	1A4ai	WOOD RESIDUE CHIPS	0,000030424	t/TJ
2015	BC	1A4aii	DIESEL OIL (S=001%)	0,013697304	t/TJ
2015	BC	1A4aii	LIQUID GAS	0,000613454	t/TJ
2015	BC	1A4aii	MOTOR GASOLINE (S=0.001%)	0,005586386	t/TJ

2015	BC	1A4bi	COAL (S=1.0%)	0,003840000	t/TJ
2015	BC	1A4bi	FOREST WOODFUEL	0,057907013	t/TJ
2015	BC	1A4bi	HEAVY FUEL OIL (S<1%)	0,007338298	t/TJ
2015	BC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,001641500	t/TJ
2015	BC	1A4bi	PARAFFIN	0,003528000	t/TJ
2015	BC	1A4bi	SOD PEAT	0,010560000	t/TJ
2015	BC	1A4bii	DIESEL OIL (S=001%)	0,041865177	t/TJ
2015	BC	1A4bii	MOTOR GASOLINE (S=0.001%)	0,000399328	t/TJ
2015	BC	1A4ci	FOREST WOODFUEL	0,000505861	t/TJ
2015	BC	1A4ci	HEAVY FUEL OIL (S<1%)	0,015120000	t/TJ
2015	BC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,000281400	t/TJ
2015	BC	1A4ci	SOD PEAT	0,000660000	t/TJ
2015	BC	1A4cii	DIESEL OIL (S=001%)	0,013185624	t/TJ
2015	BC	1A4cii	MOTOR GASOLINE (S=0.001%)	0,005883215	t/TJ
2015	BC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,010672131	t/TJ
2015	BC	1A5a	BARK	0,000487203	t/TJ
2015	BC	1A5a	FOREST RESIDUE CHIPS	0,001296669	t/TJ
2015	BC	1A5a	HEAVY FUEL OIL (S<1%)	0,009921218	t/TJ
2015	BC	1A5a	LIGHT FUEL OIL (S=0.0915%)	8,618075677	t/TJ
2015	BC	1A5a	SOD PEAT	0,000457107	t/TJ
2015	BC	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000826768	t/TJ
2015	BC	1A5a	WOOD RESIDUE CHIPS	0,001651388	t/TJ
2015	BC	5C1a	INDUSTRIAL WASTE	0,000001950	t/TJ
2015	BC	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,000001933	t/TJ
2015	BC	5C1a	MUNICIPAL WASTE - unsorted	0,000000061	t/TJ
2015	BC	5C1a	RECOVERED FUEL (REF 3)	0,000000325	t/TJ
2015	BC	5C1bi	DEMOLITION WOOD	0,000001910	t/TJ
2015	BC	5C1bi	FOREST RESIDUE CHIPS	0,000001910	t/TJ
2015	BC	5C1bi	HAZARDOUS WASTE	0,000003200	t/TJ
2015	BC	5C1bi	HEAVY FUEL OIL (S<1%)	0,000018342	t/TJ
2015	BC	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000001917	t/TJ
2015	BC	5C1bi	MUNICIPAL WASTE - unsorted	0,000000115	t/TJ
2015	BC	5C1bi	RECOVERED FUEL (REF 2)	0,000003240	t/TJ
2015	BC	5C1bi	RECYCLED AND WASTE OILS	0,000020482	t/TJ

CO Implied emission factors in Finnish air pollutant inventory for 2015

2015	CO	1A1a	ANIMAL-BASED FUELS	0,090504505	t/TJ
2015	CO	1A1a	BARK	0,073820985	t/TJ
2015	CO	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0,020000000	t/TJ
2015	CO	1A1a	CHIPS FROM ROUNDWOOD	0,116077433	t/TJ
2015	CO	1A1a	COAL (S=1.0%)	0,014160924	t/TJ
2015	CO	1A1a	DEINKING WASTE	0,030000000	t/TJ
2015	CO	1A1a	DEMOLITION WOOD	0,023735491	t/TJ
2015	CO	1A1a	DIESEL OIL (S=001%)	0,046000000	t/TJ
2015	CO	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,500000000	t/TJ
2015	CO	1A1a	FOREST RESIDUE CHIPS	0,088920961	t/TJ
2015	CO	1A1a	GASOIL (FOR NON-ROAD USE)	0,034288886	t/TJ
2015	CO	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,005067608	t/TJ
2015	CO	1A1a	HEAVY FUEL OIL (S<1%)	0,029561018	t/TJ
2015	CO	1A1a	HYDROGEN	0,020000000	t/TJ
2015	CO	1A1a	INDUSTRIAL BIOGAS	0,020003401	t/TJ
2015	CO	1A1a	INDUSTRIAL WASTE	0,272954741	t/TJ
2015	CO	1A1a	LANDFILL GAS	0,024236264	t/TJ
2015	CO	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,039846804	t/TJ
2015	CO	1A1a	LIQUID BIOFUELS	0,028509038	t/TJ
2015	CO	1A1a	LIQUID GAS	0,020471418	t/TJ
2015	CO	1A1a	MILLED PEAT	0,042821096	t/TJ
2015	CO	1A1a	MUNICIPAL WASTE - unsorted	0,007333020	t/TJ
2015	CO	1A1a	NATURAL GAS	0,024724169	t/TJ
2015	CO	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,132426300	t/TJ
2015	CO	1A1a	OTHER FOSSIL GAS	0,018566433	t/TJ
2015	CO	1A1a	OTHER FOSSIL LIQUID	0,029135447	t/TJ
2015	CO	1A1a	OTHER FOSSIL SOLID	0,024308892	t/TJ
2015	CO	1A1a	OTHER NON-FOSSIL GAS	0,107016739	t/TJ
2015	CO	1A1a	OTHER NON-FOSSIL SOLID	0,132982789	t/TJ
2015	CO	1A1a	OTHER WOOD RESIDUE	0,154861510	t/TJ
2015	CO	1A1a	OXYGEN STEEL FURNACE GAS	0,050000000	t/TJ
2015	CO	1A1a	PEAT PELLETS AND BRIQUETTES	0,039943898	t/TJ
2015	CO	1A1a	RECOVERED FUEL (REF 2)	0,009280204	t/TJ
2015	CO	1A1a	RECOVERED WOOD	0,057190231	t/TJ
2015	CO	1A1a	RECYCLED AND WASTE OILS	0,015338983	t/TJ
2015	CO	1A1a	SALT TREATED WOOD	0,010680703	t/TJ
2015	CO	1A1a	SAWDUST AND CUTTER CHIPS	0,103519503	t/TJ
2015	CO	1A1a	SOD PEAT	0,090150630	t/TJ
2015	CO	1A1a	TALL PITCH AND OIL	0,176370882	t/TJ
2015	CO	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,207871491	t/TJ
2015	CO	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,181793043	t/TJ

2015	CO	1A1a	WOOD RESIDUE CHIPS	0,153813629	t/TJ
2015	CO	1A1b	DIESEL OIL (S=001%)	0,050377045	t/TJ
2015	CO	1A1b	GASOIL (FOR NON-ROAD USE)	0,020204363	t/TJ
2015	CO	1A1b	HEAVY FUEL OIL (S<1%)	0,020120315	t/TJ
2015	CO	1A1b	LIQUID GAS	0,020000000	t/TJ
2015	CO	1A1b	NATURAL GAS	0,020326974	t/TJ
2015	CO	1A1b	OTHER FOSSIL GAS	0,020000000	t/TJ
2015	CO	1A1b	OTHER HEAVY DISTILLATES	0,020000000	t/TJ
2015	CO	1A1b	OTHER WASTE	0,020000000	t/TJ
2015	CO	1A1b	PETROLEUM COKE	0,033965240	t/TJ
2015	CO	1A1b	REFINERY GAS	0,026859175	t/TJ
2015	CO	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,011603376	t/TJ
2015	CO	1A2a	BLAST FURNACE GAS	0,020000000	t/TJ
2015	CO	1A2a	COKE (S=1.0%)	0,627791612	t/TJ
2015	CO	1A2a	COKE OVEN GAS	0,020000000	t/TJ
2015	CO	1A2a	FOREST RESIDUE CHIPS	0,020151134	t/TJ
2015	CO	1A2a	GASOIL (FOR NON-ROAD USE)	0,023195743	t/TJ
2015	CO	1A2a	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A2a	HYDROGEN	0,020000000	t/TJ
2015	CO	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,018459729	t/TJ
2015	CO	1A2a	LIQUID GAS	0,027864530	t/TJ
2015	CO	1A2a	NATURAL GAS	0,018159160	t/TJ
2015	CO	1A2a	OTHER FOSSIL LIQUID	0,020000000	t/TJ
2015	CO	1A2a	OTHER FOSSIL SOLID	1,500000000	t/TJ
2015	CO	1A2a	OXYGEN STEEL FURNACE GAS	0,048333726	t/TJ
2015	CO	1A2a	WOOD RESIDUE CHIPS	0,400000000	t/TJ
2015	CO	1A2b	CHIPS FROM ROUNDWOOD	2,100000000	t/TJ
2015	CO	1A2b	COAL (S=1.0%)	0,020000000	t/TJ
2015	CO	1A2b	COKE (S=1.0%)	0,020000000	t/TJ
2015	CO	1A2b	DIESEL OIL (S=001%)	2,100000000	t/TJ
2015	CO	1A2b	GASOIL (FOR NON-ROAD USE)	0,020000000	t/TJ
2015	CO	1A2b	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,021019109	t/TJ
2015	CO	1A2b	LIQUID GAS	0,025382727	t/TJ
2015	CO	1A2b	NATURAL GAS	0,020000000	t/TJ
2015	CO	1A2b	OTHER FOSSIL SOLID	0,020000000	t/TJ
2015	CO	1A2b	RECYCLED AND WASTE OILS	0,020000000	t/TJ
2015	CO	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,400000000	t/TJ
2015	CO	1A2c	COAL (S=1.0%)	0,030000000	t/TJ
2015	CO	1A2c	DIESEL OIL (S=001%)	0,020000000	t/TJ
2015	CO	1A2c	GASIFIED WASTE	0,020000000	t/TJ
2015	CO	1A2c	GASOIL (FOR NON-ROAD USE)	0,020000000	t/TJ
2015	CO	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,019362898	t/TJ
2015	CO	1A2c	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A2c	HYDROGEN	0,020000000	t/TJ

2015	CO	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,020088920	t/TJ
2015	CO	1A2c	LIQUID GAS	0,019994644	t/TJ
2015	CO	1A2c	NATURAL GAS	0,021177038	t/TJ
2015	CO	1A2c	OTHER FOSSIL GAS	0,020000000	t/TJ
2015	CO	1A2c	OTHER FOSSIL LIQUID	0,020000000	t/TJ
2015	CO	1A2c	OTHER MEDIUM DISTILLATES	0,020000000	t/TJ
2015	CO	1A2c	PETROLEUM COKE	0,020000000	t/TJ
2015	CO	1A2c	REFINERY GAS	0,020000000	t/TJ
2015	CO	1A2c	TALL PITCH AND OIL	0,020000000	t/TJ
2015	CO	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,012278820	t/TJ
2015	CO	1A2d	ANIMAL-BASED FUELS	0,013969686	t/TJ
2015	CO	1A2d	BARK	0,127247370	t/TJ
2015	CO	1A2d	BLACK LIQUOR	0,093179998	t/TJ
2015	CO	1A2d	CHIPS FROM ROUNDWOOD	0,094595670	t/TJ
2015	CO	1A2d	COAL (S=1.0%)	0,006724811	t/TJ
2015	CO	1A2d	DEMOLITION WOOD	0,013969686	t/TJ
2015	CO	1A2d	FOREST RESIDUE CHIPS	0,074653414	t/TJ
2015	CO	1A2d	GASOIL (FOR NON-ROAD USE)	0,171441314	t/TJ
2015	CO	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,033595951	t/TJ
2015	CO	1A2d	HEAVY FUEL OIL (S<1%)	0,046811301	t/TJ
2015	CO	1A2d	HYDROGEN	0,020000000	t/TJ
2015	CO	1A2d	INDUSTRIAL BIOGAS	0,011816503	t/TJ
2015	CO	1A2d	INDUSTRIAL WASTE	0,150000000	t/TJ
2015	CO	1A2d	LANDFILL GAS	0,028489697	t/TJ
2015	CO	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,127302787	t/TJ
2015	CO	1A2d	LIQUID BIOFUELS	0,015595036	t/TJ
2015	CO	1A2d	LIQUID GAS	0,020107828	t/TJ
2015	CO	1A2d	METHANOL	0,055740186	t/TJ
2015	CO	1A2d	MILLED PEAT	0,059949508	t/TJ
2015	CO	1A2d	NATURAL GAS	0,051125407	t/TJ
2015	CO	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,104406882	t/TJ
2015	CO	1A2d	OTHER NON-FOSSIL SOLID	0,005632188	t/TJ
2015	CO	1A2d	OTHER WASTE	0,028489697	t/TJ
2015	CO	1A2d	OTHER WOOD RESIDUE	0,475074540	t/TJ
2015	CO	1A2d	PLASTIC WASTE	0,000995630	t/TJ
2015	CO	1A2d	RECOVERED FUEL (REF 2)	0,024541895	t/TJ
2015	CO	1A2d	RECOVERED WOOD	0,079457642	t/TJ
2015	CO	1A2d	RECYCLED AND WASTE OILS	0,013969686	t/TJ
2015	CO	1A2d	SALT TREATED WOOD	0,013969686	t/TJ
2015	CO	1A2d	SAWDUST AND CUTTER CHIPS	0,180753409	t/TJ
2015	CO	1A2d	SOD PEAT	0,500000000	t/TJ
2015	CO	1A2d	SULPHUR CONCENTRATE	0,050000000	t/TJ
2015	CO	1A2d	TALL PITCH AND OIL	0,033288957	t/TJ
2015	CO	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,271789298	t/TJ
2015	CO	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,100000000	t/TJ

2015	CO	1A2d	WOOD RESIDUE CHIPS	0,216881318	t/TJ
2015	CO	1A2e	BARK	0,500000000	t/TJ
2015	CO	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0,020000000	t/TJ
2015	CO	1A2e	CHIPS FROM ROUNDWOOD	0,070000000	t/TJ
2015	CO	1A2e	COKE (S=1.0%)	0,050000000	t/TJ
2015	CO	1A2e	DIESEL OIL (S=001%)	0,020000000	t/TJ
2015	CO	1A2e	FOREST RESIDUE CHIPS	0,070000000	t/TJ
2015	CO	1A2e	GASOIL (FOR NON-ROAD USE)	0,100000000	t/TJ
2015	CO	1A2e	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A2e	INDUSTRIAL BIOGAS	0,020000000	t/TJ
2015	CO	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,021286777	t/TJ
2015	CO	1A2e	LIQUID GAS	0,020001203	t/TJ
2015	CO	1A2e	MILLED PEAT	0,089565144	t/TJ
2015	CO	1A2e	NATURAL GAS	0,020000000	t/TJ
2015	CO	1A2e	SAWDUST AND CUTTER CHIPS	0,245009239	t/TJ
2015	CO	1A2e	WOOD RESIDUE CHIPS	0,500000000	t/TJ
2015	CO	1A2f	CHIPS FROM ROUNDWOOD	0,343534718	t/TJ
2015	CO	1A2f	COAL (S=1.0%)	0,670708675	t/TJ
2015	CO	1A2f	COKE (S=1.0%)	3,783902135	t/TJ
2015	CO	1A2f	COKE OVEN GAS	0,020000000	t/TJ
2015	CO	1A2f	DIESEL OIL (S=001%)	0,020000000	t/TJ
2015	CO	1A2f	FOREST RESIDUE CHIPS	0,400000000	t/TJ
2015	CO	1A2f	GASOIL (FOR NON-ROAD USE)	0,183535292	t/TJ
2015	CO	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,020000000	t/TJ
2015	CO	1A2f	HEAVY FUEL OIL (S<1%)	0,107662069	t/TJ
2015	CO	1A2f	INDUSTRIAL BIOGAS	0,020000000	t/TJ
2015	CO	1A2f	LANDFILL GAS	14,468596692	t/TJ
2015	CO	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,114325753	t/TJ
2015	CO	1A2f	LIQUID GAS	1,005263499	t/TJ
2015	CO	1A2f	NATURAL GAS	0,032259748	t/TJ
2015	CO	1A2f	OXYGEN STEEL FURNACE GAS	0,001362575	t/TJ
2015	CO	1A2f	PETROLEUM COKE	1,118720668	t/TJ
2015	CO	1A2f	PLASTIC WASTE	1,500000000	t/TJ
2015	CO	1A2f	RECOVERED FUEL (REF 2)	0,653454263	t/TJ
2015	CO	1A2f	RECOVERED WOOD	0,400000000	t/TJ
2015	CO	1A2f	RECYCLED AND WASTE OILS	0,737641894	t/TJ
2015	CO	1A2f	RUBBER WASTE	1,500000000	t/TJ
2015	CO	1A2f	SAWDUST AND CUTTER CHIPS	0,020000000	t/TJ
2015	CO	1A2gvii	DIESEL OIL (S=001%)	0,408645314	t/TJ
2015	CO	1A2gvii	MOTOR GASOLINE (S=0.001%)	22,991106827	t/TJ
2015	CO	1A2gviii	ANIMAL-BASED FUELS	0,146606223	t/TJ
2015	CO	1A2gviii	BARK	0,028922823	t/TJ
2015	CO	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0,028922823	t/TJ
2015	CO	1A2gviii	CHIPS FROM ROUNDWOOD	0,028637008	t/TJ
2015	CO	1A2gviii	COAL (S=1.0%)	0,371666090	t/TJ

2015	CO	1A2gviii	DIESEL OIL (S=001%)	0,019914921	t/TJ
2015	CO	1A2gviii	FOREST RESIDUE CHIPS	0,492598419	t/TJ
2015	CO	1A2gviii	FOREST WOODFUEL	0,500000000	t/TJ
2015	CO	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,036267757	t/TJ
2015	CO	1A2gviii	HEAVY FUEL OIL (S<1%)	0,020467465	t/TJ
2015	CO	1A2gviii	INDUSTRIAL BIOGAS	0,020000000	t/TJ
2015	CO	1A2gviii	LANDFILL GAS	0,050000000	t/TJ
2015	CO	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,020157588	t/TJ
2015	CO	1A2gviii	LIQUID GAS	0,044847634	t/TJ
2015	CO	1A2gviii	MILLED PEAT	0,050436792	t/TJ
2015	CO	1A2gviii	NATURAL GAS	0,048471354	t/TJ
2015	CO	1A2gviii	OTHER NON-FOSSIL GAS	0,020000000	t/TJ
2015	CO	1A2gviii	OTHER NON-FOSSIL SOLID	0,039566842	t/TJ
2015	CO	1A2gviii	OTHER PETROLEUM PRODUCTS	0,020000000	t/TJ
2015	CO	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,007502680	t/TJ
2015	CO	1A2gviii	RECOVERED FUEL (REF 1)	0,050000000	t/TJ
2015	CO	1A2gviii	RECYCLED AND WASTE OILS	0,379357788	t/TJ
2015	CO	1A2gviii	SAWDUST AND CUTTER CHIPS	0,358097167	t/TJ
2015	CO	1A2gviii	SOD PEAT	0,101233837	t/TJ
2015	CO	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,063746024	t/TJ
2015	CO	1A2gviii	WOOD RESIDUE CHIPS	0,500000000	t/TJ
2015	CO	1A3ai(i)	KEROSENE (JET FUEL)	0,329910228	t/TJ
2015	CO	1A3aii(i)	AVIATION GASOLINE	23,550000000	t/TJ
2015	CO	1A3aii(i)	KEROSENE (JET FUEL)	0,321350115	t/TJ
2015	CO	1A3bi	DIESEL OIL (S=001%)	0,054393486	t/TJ
2015	CO	1A3bi	MOTOR GASOLINE (S=0.001%)	0,664298317	t/TJ
2015	CO	1A3bi	NATURAL GAS	0,268043467	t/TJ
2015	CO	1A3bii	DIESEL OIL (S=001%)	0,168007737	t/TJ
2015	CO	1A3bii	MOTOR GASOLINE (S=0.001%)	5,464785969	t/TJ
2015	CO	1A3bii	NATURAL GAS	0,183534392	t/TJ
2015	CO	1A3biii	DIESEL OIL (S=001%)	0,115810471	t/TJ
2015	CO	1A3biii	NATURAL GAS	0,043600134	t/TJ
2015	CO	1A3biv	DIESEL OIL (S=001%)	0,994923941	t/TJ
2015	CO	1A3biv	MOTOR GASOLINE (S=0.001%)	5,005938268	t/TJ
2015	CO	1A3c	GASOIL (FOR NON-ROAD USE)	0,213602682	t/TJ
2015	CO	1A3dii	DIESEL OIL (S=001%)	0,388951446	t/TJ
2015	CO	1A3dii	GASOIL (FOR NON-ROAD USE)	0,192621245	t/TJ
2015	CO	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,186173854	t/TJ
2015	CO	1A3dii	MOTOR GASOLINE (S=0.001%)	12,999136422	t/TJ
2015	CO	1A3ei	NATURAL GAS	0,020000000	t/TJ
2015	CO	1A4ai	BIOGAS FROM WASTEWATER TREATMENT	0,253660892	t/TJ
2015	CO	1A4ai	CHIPS FROM ROUNDWOOD	0,434366127	t/TJ
2015	CO	1A4ai	FOREST RESIDUE CHIPS	0,500000000	t/TJ
2015	CO	1A4ai	FOREST WOODFUEL	0,140270513	t/TJ
2015	CO	1A4ai	GASOIL (FOR NON-ROAD USE)	0,239332969	t/TJ

2015	CO	1A4ai	HEAVY FUEL OIL (S<1%)	0,019977753	t/TJ
2015	CO	1A4ai	LANDFILL GAS	0,020000000	t/TJ
2015	CO	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,020174147	t/TJ
2015	CO	1A4ai	LIQUID GAS	0,019497712	t/TJ
2015	CO	1A4ai	MILLED PEAT	0,100000000	t/TJ
2015	CO	1A4ai	NATURAL GAS	0,047417080	t/TJ
2015	CO	1A4ai	SAWDUST AND CUTTER CHIPS	0,459320599	t/TJ
2015	CO	1A4ai	SOD PEAT	0,206280968	t/TJ
2015	CO	1A4ai	WOOD RESIDUE CHIPS	0,250000000	t/TJ
2015	CO	1A4aii	DIESEL OIL (S=001%)	0,399517997	t/TJ
2015	CO	1A4aii	LIQUID GAS	0,955890151	t/TJ
2015	CO	1A4aii	MOTOR GASOLINE (S=0.001%)	17,908800897	t/TJ
2015	CO	1A4bi	COAL (S=1.0%)	0,109090909	t/TJ
2015	CO	1A4bi	FOREST WOODFUEL	2,108407371	t/TJ
2015	CO	1A4bi	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,020000000	t/TJ
2015	CO	1A4bi	LIQUID GAS	0,050000000	t/TJ
2015	CO	1A4bi	NATURAL GAS	0,050000000	t/TJ
2015	CO	1A4bi	PARAFFIN	0,020000000	t/TJ
2015	CO	1A4bi	SOD PEAT	0,200000000	t/TJ
2015	CO	1A4bii	DIESEL OIL (S=001%)	0,592080002	t/TJ
2015	CO	1A4bii	MOTOR GASOLINE (S=0.001%)	23,370280786	t/TJ
2015	CO	1A4ci	FOREST WOODFUEL	0,140335505	t/TJ
2015	CO	1A4ci	HEAVY FUEL OIL (S<1%)	0,020000000	t/TJ
2015	CO	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,020000000	t/TJ
2015	CO	1A4ci	LIQUID GAS	0,050000000	t/TJ
2015	CO	1A4ci	NATURAL GAS	0,050000000	t/TJ
2015	CO	1A4ci	SOD PEAT	0,200000000	t/TJ
2015	CO	1A4cii	DIESEL OIL (S=001%)	0,357212690	t/TJ
2015	CO	1A4cii	MOTOR GASOLINE (S=0.001%)	17,442596637	t/TJ
2015	CO	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,206557377	t/TJ
2015	CO	1A5a	BARK	0,100000000	t/TJ
2015	CO	1A5a	FOREST RESIDUE CHIPS	0,273826757	t/TJ
2015	CO	1A5a	HEAVY FUEL OIL (S<1%)	0,100000000	t/TJ
2015	CO	1A5a	LIGHT FUEL OIL (S=0.0915%)	204,036847237	t/TJ
2015	CO	1A5a	SOD PEAT	0,133816425	t/TJ
2015	CO	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,100000000	t/TJ
2015	CO	1A5a	WOOD RESIDUE CHIPS	0,350000000	t/TJ
2015	CO	5C1a	INDUSTRIAL WASTE	0,002154051	t/TJ
2015	CO	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,003206485	t/TJ
2015	CO	5C1a	MUNICIPAL WASTE - unsorted	0,003206485	t/TJ
2015	CO	5C1a	NATURAL GAS	0,002154051	t/TJ
2015	CO	5C1a	RECOVERED FUEL (REF 3)	0,002154051	t/TJ
2015	CO	5C1bi	DEMOLITION WOOD	0,017249835	t/TJ
2015	CO	5C1bi	FOREST RESIDUE CHIPS	0,017249835	t/TJ

2015	CO	5C1bi	HAZARDOUS WASTE	0,002699511	t/TJ
2015	CO	5C1bi	HEAVY FUEL OIL (S<1%)	0,002699511	t/TJ
2015	CO	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,009439049	t/TJ
2015	CO	5C1bi	LIQUID GAS	0,017249835	t/TJ
2015	CO	5C1bi	MUNICIPAL WASTE - unsorted	0,001188799	t/TJ
2015	CO	5C1bi	RECOVERED FUEL (REF 2)	0,017249835	t/TJ
2015	CO	5C1bi	RECOVERED WOOD	0,017249835	t/TJ
2015	CO	5C1bi	RECYCLED AND WASTE OILS	0,002699511	t/TJ

Pb Implied emission factors in Finnish air pollutant inventory for 2015

2015	Pb	1A1a	ANIMAL-BASED FUELS	0,003411370	kg/TJ
2015	Pb	1A1a	BARK	0,007912745	kg/TJ
2015	Pb	1A1a	CHIPS FROM ROUNDWOOD	0,008424442	kg/TJ
2015	Pb	1A1a	COAL (S=1.0%)	0,001474654	kg/TJ
2015	Pb	1A1a	DEINKING WASTE	0,003562711	kg/TJ
2015	Pb	1A1a	DEMOLITION WOOD	0,003400000	kg/TJ
2015	Pb	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,045000000	kg/TJ
2015	Pb	1A1a	FOREST RESIDUE CHIPS	0,007435244	kg/TJ
2015	Pb	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000643916	kg/TJ
2015	Pb	1A1a	HEAVY FUEL OIL (S<1%)	0,017775649	kg/TJ
2015	Pb	1A1a	INDUSTRIAL WASTE	0,017835250	kg/TJ
2015	Pb	1A1a	MILLED PEAT	0,011214365	kg/TJ
2015	Pb	1A1a	MUNICIPAL WASTE - unsorted	0,000868566	kg/TJ
2015	Pb	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,003405227	kg/TJ
2015	Pb	1A1a	OTHER FOSSIL LIQUID	0,003812288	kg/TJ
2015	Pb	1A1a	OTHER FOSSIL SOLID	0,003900000	kg/TJ
2015	Pb	1A1a	OTHER NON-FOSSIL SOLID	0,003484900	kg/TJ
2015	Pb	1A1a	OTHER WOOD RESIDUE	0,006385719	kg/TJ
2015	Pb	1A1a	PEAT PELLETS AND BRIQUETTES	0,051290135	kg/TJ
2015	Pb	1A1a	RECOVERED FUEL (REF 2)	0,001310039	kg/TJ
2015	Pb	1A1a	RECOVERED WOOD	0,003438328	kg/TJ
2015	Pb	1A1a	RECYCLED AND WASTE OILS	0,003205903	kg/TJ
2015	Pb	1A1a	SALT TREATED WOOD	0,001313506	kg/TJ
2015	Pb	1A1a	SAWDUST AND CUTTER CHIPS	0,009441974	kg/TJ
2015	Pb	1A1a	SOD PEAT	0,062423773	kg/TJ
2015	Pb	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,016472611	kg/TJ
2015	Pb	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,012552889	kg/TJ
2015	Pb	1A1a	WOOD RESIDUE CHIPS	0,014210459	kg/TJ
2015	Pb	1A1b	HEAVY FUEL OIL (S<1%)	0,010059411	kg/TJ
2015	Pb	1A1b	OTHER HEAVY DISTILLATES	0,010000000	kg/TJ
2015	Pb	1A1b	OTHER WASTE	0,045000000	kg/TJ
2015	Pb	1A1b	PETROLEUM COKE	0,790000000	kg/TJ
2015	Pb	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,045000000	kg/TJ
2015	Pb	1A2a	COKE (S=1.0%)	0,041672508	kg/TJ
2015	Pb	1A2a	FOREST RESIDUE CHIPS	0,045000000	kg/TJ
2015	Pb	1A2a	HEAVY FUEL OIL (S<1%)	0,022863960	kg/TJ
2015	Pb	1A2a	OTHER FOSSIL LIQUID	0,025000000	kg/TJ
2015	Pb	1A2a	OTHER FOSSIL SOLID	0,003900000	kg/TJ
2015	Pb	1A2a	WOOD RESIDUE CHIPS	0,045000000	kg/TJ
2015	Pb	1A2b	CHIPS FROM ROUNDWOOD	0,045000000	kg/TJ
2015	Pb	1A2b	COAL (S=1.0%)	0,562591862	kg/TJ

2015	Pb	1A2b	COKE (S=1.0%)	0,790000000	kg/TJ
2015	Pb	1A2b	HEAVY FUEL OIL (S<1%)	0,021833869	kg/TJ
2015	Pb	1A2b	OTHER FOSSIL SOLID	0,790000000	kg/TJ
2015	Pb	1A2b	RECYCLED AND WASTE OILS	0,025000000	kg/TJ
2015	Pb	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,045000000	kg/TJ
2015	Pb	1A2c	COAL (S=1.0%)	0,001198883	kg/TJ
2015	Pb	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,025000000	kg/TJ
2015	Pb	1A2c	HEAVY FUEL OIL (S<1%)	0,025065112	kg/TJ
2015	Pb	1A2c	OTHER FOSSIL LIQUID	0,025000000	kg/TJ
2015	Pb	1A2c	PETROLEUM COKE	0,790000000	kg/TJ
2015	Pb	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,045000000	kg/TJ
2015	Pb	1A2d	ANIMAL-BASED FUELS	0,001046154	kg/TJ
2015	Pb	1A2d	BARK	0,005718929	kg/TJ
2015	Pb	1A2d	BLACK LIQUOR	0,023306566	kg/TJ
2015	Pb	1A2d	CHIPS FROM ROUNDWOOD	0,005174568	kg/TJ
2015	Pb	1A2d	COAL (S=1.0%)	0,000199303	kg/TJ
2015	Pb	1A2d	DEMOLITION WOOD	0,001046154	kg/TJ
2015	Pb	1A2d	FOREST RESIDUE CHIPS	0,001793773	kg/TJ
2015	Pb	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000271532	kg/TJ
2015	Pb	1A2d	HEAVY FUEL OIL (S<1%)	0,005372195	kg/TJ
2015	Pb	1A2d	INDUSTRIAL WASTE	0,001046154	kg/TJ
2015	Pb	1A2d	MILLED PEAT	0,001451579	kg/TJ
2015	Pb	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,004163048	kg/TJ
2015	Pb	1A2d	OTHER NON-FOSSIL SOLID	0,000132988	kg/TJ
2015	Pb	1A2d	OTHER WASTE	0,002180782	kg/TJ
2015	Pb	1A2d	OTHER WOOD RESIDUE	0,016094774	kg/TJ
2015	Pb	1A2d	PLASTIC WASTE	0,001913876	kg/TJ
2015	Pb	1A2d	RECOVERED FUEL (REF 2)	0,001360928	kg/TJ
2015	Pb	1A2d	RECOVERED WOOD	0,001004126	kg/TJ
2015	Pb	1A2d	RECYCLED AND WASTE OILS	0,001200000	kg/TJ
2015	Pb	1A2d	SALT TREATED WOOD	0,001046154	kg/TJ
2015	Pb	1A2d	SAWDUST AND CUTTER CHIPS	0,023151935	kg/TJ
2015	Pb	1A2d	SOD PEAT	0,106512246	kg/TJ
2015	Pb	1A2d	SULPHUR CONCENTRATE	0,000048735	kg/TJ
2015	Pb	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,016646663	kg/TJ
2015	Pb	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,045000000	kg/TJ
2015	Pb	1A2d	WOOD RESIDUE CHIPS	0,011548935	kg/TJ
2015	Pb	1A2e	BARK	0,045000000	kg/TJ
2015	Pb	1A2e	CHIPS FROM ROUNDWOOD	0,045000000	kg/TJ
2015	Pb	1A2e	COKE (S=1.0%)	0,790000000	kg/TJ
2015	Pb	1A2e	FOREST RESIDUE CHIPS	0,045000000	kg/TJ
2015	Pb	1A2e	HEAVY FUEL OIL (S<1%)	0,020838037	kg/TJ
2015	Pb	1A2e	MILLED PEAT	0,114515100	kg/TJ
2015	Pb	1A2e	SAWDUST AND CUTTER CHIPS	0,045000000	kg/TJ
2015	Pb	1A2e	WOOD RESIDUE CHIPS	0,045000000	kg/TJ

2015	Pb	1A2f	CHIPS FROM ROUNDWOOD	0,045000000	kg/TJ
2015	Pb	1A2f	COAL (S=1.0%)	0,707022681	kg/TJ
2015	Pb	1A2f	COKE (S=1.0%)	0,707891629	kg/TJ
2015	Pb	1A2f	FOREST RESIDUE CHIPS	0,045000000	kg/TJ
2015	Pb	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,025000000	kg/TJ
2015	Pb	1A2f	HEAVY FUEL OIL (S<1%)	0,020082204	kg/TJ
2015	Pb	1A2f	PETROLEUM COKE	0,206416002	kg/TJ
2015	Pb	1A2f	PLASTIC WASTE	0,003400000	kg/TJ
2015	Pb	1A2f	RECOVERED FUEL (REF 2)	0,027194799	kg/TJ
2015	Pb	1A2f	RECOVERED WOOD	0,045000000	kg/TJ
2015	Pb	1A2f	RECYCLED AND WASTE OILS	0,014768754	kg/TJ
2015	Pb	1A2f	RUBBER WASTE	0,003400000	kg/TJ
2015	Pb	1A2f	SAWDUST AND CUTTER CHIPS	0,045000000	kg/TJ
2015	Pb	1A2gviii	ANIMAL-BASED FUELS	0,045000000	kg/TJ
2015	Pb	1A2gviii	BARK	0,003400000	kg/TJ
2015	Pb	1A2gviii	CHIPS FROM ROUNDWOOD	0,003400000	kg/TJ
2015	Pb	1A2gviii	COAL (S=1.0%)	0,022258282	kg/TJ
2015	Pb	1A2gviii	FOREST RESIDUE CHIPS	0,007395818	kg/TJ
2015	Pb	1A2gviii	FOREST WOODFUEL	0,045000000	kg/TJ
2015	Pb	1A2gviii	HEAVY FUEL OIL (S<1%)	0,024850733	kg/TJ
2015	Pb	1A2gviii	MILLED PEAT	0,001394129	kg/TJ
2015	Pb	1A2gviii	OTHER NON-FOSSIL SOLID	0,003889931	kg/TJ
2015	Pb	1A2gviii	OTHER PETROLEUM PRODUCTS	0,025000000	kg/TJ
2015	Pb	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,025000000	kg/TJ
2015	Pb	1A2gviii	RECOVERED FUEL (REF 1)	0,045000000	kg/TJ
2015	Pb	1A2gviii	RECYCLED AND WASTE OILS	0,003900000	kg/TJ
2015	Pb	1A2gviii	SAWDUST AND CUTTER CHIPS	0,003400000	kg/TJ
2015	Pb	1A2gviii	SOD PEAT	0,169538200	kg/TJ
2015	Pb	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,003586052	kg/TJ
2015	Pb	1A2gviii	WOOD RESIDUE CHIPS	0,004284274	kg/TJ
2015	Pb	1A3bi	DIESEL OIL (S=001%)	0,001217290	kg/TJ
2015	Pb	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000772093	kg/TJ
2015	Pb	1A3bii	DIESEL OIL (S=001%)	0,001217290	kg/TJ
2015	Pb	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000772093	kg/TJ
2015	Pb	1A3biii	DIESEL OIL (S=001%)	0,001217290	kg/TJ
2015	Pb	1A3biv	DIESEL OIL (S=001%)	0,001217290	kg/TJ
2015	Pb	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000772093	kg/TJ
2015	Pb	1A3dii	GASOIL (FOR NON-ROAD USE)	0,003043142	kg/TJ
2015	Pb	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,004441182	kg/TJ
2015	Pb	1A4ai	CHIPS FROM ROUNDWOOD	0,008258307	kg/TJ
2015	Pb	1A4ai	FOREST RESIDUE CHIPS	0,001046154	kg/TJ
2015	Pb	1A4ai	FOREST WOODFUEL	0,010000000	kg/TJ
2015	Pb	1A4ai	HEAVY FUEL OIL (S<1%)	0,023532808	kg/TJ
2015	Pb	1A4ai	MILLED PEAT	0,170000000	kg/TJ
2015	Pb	1A4ai	SAWDUST AND CUTTER CHIPS	0,005516194	kg/TJ

2015	Pb	1A4ai	SOD PEAT	0,170000000	kg/TJ
2015	Pb	1A4ai	WOOD RESIDUE CHIPS	0,045000000	kg/TJ
2015	Pb	1A4bi	COAL (S=1.0%)	0,430909091	kg/TJ
2015	Pb	1A4bi	FOREST WOODFUEL	0,010000000	kg/TJ
2015	Pb	1A4bi	HEAVY FUEL OIL (S<1%)	0,026501538	kg/TJ
2015	Pb	1A4bi	SOD PEAT	0,170000000	kg/TJ
2015	Pb	1A4ci	FOREST WOODFUEL	0,010000000	kg/TJ
2015	Pb	1A4ci	HEAVY FUEL OIL (S<1%)	0,025000000	kg/TJ
2015	Pb	1A4ci	SOD PEAT	0,170000000	kg/TJ
2015	Pb	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,003044496	kg/TJ
2015	Pb	1A5a	BARK	0,003400000	kg/TJ
2015	Pb	1A5a	FOREST RESIDUE CHIPS	0,009379640	kg/TJ
2015	Pb	1A5a	HEAVY FUEL OIL (S<1%)	0,003900000	kg/TJ
2015	Pb	1A5a	LIGHT FUEL OIL (S=0.0915%)	2,825477259	kg/TJ
2015	Pb	1A5a	SOD PEAT	0,010062802	kg/TJ
2015	Pb	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,003400000	kg/TJ
2015	Pb	1A5a	WOOD RESIDUE CHIPS	0,012000000	kg/TJ
2015	Pb	5C1a	INDUSTRIAL WASTE	0,001048460	kg/TJ
2015	Pb	5C1a	MUNICIPAL WASTE - unsorted	0,001046154	kg/TJ
2015	Pb	5C1a	RECOVERED FUEL (REF 3)	0,001048460	kg/TJ
2015	Pb	5C1bi	DEMOLITION WOOD	0,001287904	kg/TJ
2015	Pb	5C1bi	FOREST RESIDUE CHIPS	0,001287904	kg/TJ
2015	Pb	5C1bi	HAZARDOUS WASTE	0,000537812	kg/TJ
2015	Pb	5C1bi	HEAVY FUEL OIL (S<1%)	0,000298785	kg/TJ
2015	Pb	5C1bi	MUNICIPAL WASTE - unsorted	0,001151248	kg/TJ
2015	Pb	5C1bi	RECOVERED FUEL (REF 2)	0,001287904	kg/TJ
2015	Pb	5C1bi	RECOVERED WOOD	0,001287904	kg/TJ
2015	Pb	5C1bi	RECYCLED AND WASTE OILS	0,000298785	kg/TJ

Cd Implied emission factors in Finnish air pollutant inventory for 2015

2015	Cd	1A1a	ANIMAL-BASED FUELS	0,000345152	kg/TJ
2015	Cd	1A1a	BARK	0,000754626	kg/TJ
2015	Cd	1A1a	CHIPS FROM ROUNDWOOD	0,000961995	kg/TJ
2015	Cd	1A1a	COAL (S=1.0%)	0,000102991	kg/TJ
2015	Cd	1A1a	DEINKING WASTE	0,000212425	kg/TJ
2015	Cd	1A1a	DEMOLITION WOOD	0,000473494	kg/TJ
2015	Cd	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,005000000	kg/TJ
2015	Cd	1A1a	FOREST RESIDUE CHIPS	0,000866896	kg/TJ
2015	Cd	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000090403	kg/TJ
2015	Cd	1A1a	HEAVY FUEL OIL (S<1%)	0,000250729	kg/TJ
2015	Cd	1A1a	INDUSTRIAL WASTE	0,002049334	kg/TJ
2015	Cd	1A1a	MILLED PEAT	0,000184069	kg/TJ
2015	Cd	1A1a	MUNICIPAL WASTE - unsorted	0,000165919	kg/TJ
2015	Cd	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000462001	kg/TJ
2015	Cd	1A1a	OTHER FOSSIL LIQUID	0,000195694	kg/TJ
2015	Cd	1A1a	OTHER FOSSIL SOLID	0,000200000	kg/TJ
2015	Cd	1A1a	OTHER NON-FOSSIL SOLID	0,000551611	kg/TJ
2015	Cd	1A1a	OTHER WOOD RESIDUE	0,000823257	kg/TJ
2015	Cd	1A1a	PEAT PELLETS AND BRIQUETTES	0,000856092	kg/TJ
2015	Cd	1A1a	RECOVERED FUEL (REF 2)	0,000153834	kg/TJ
2015	Cd	1A1a	RECOVERED WOOD	0,000445934	kg/TJ
2015	Cd	1A1a	RECYCLED AND WASTE OILS	0,000105553	kg/TJ
2015	Cd	1A1a	SALT TREATED WOOD	0,000485587	kg/TJ
2015	Cd	1A1a	SAWDUST AND CUTTER CHIPS	0,001052520	kg/TJ
2015	Cd	1A1a	SOD PEAT	0,001033502	kg/TJ
2015	Cd	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,001758661	kg/TJ
2015	Cd	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001489816	kg/TJ
2015	Cd	1A1a	WOOD RESIDUE CHIPS	0,001630883	kg/TJ
2015	Cd	1A1b	HEAVY FUEL OIL (S<1%)	0,000200396	kg/TJ
2015	Cd	1A1b	OTHER HEAVY DISTILLATES	0,000200000	kg/TJ
2015	Cd	1A1b	OTHER WASTE	0,005000000	kg/TJ
2015	Cd	1A1b	PETROLEUM COKE	0,018000000	kg/TJ
2015	Cd	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005000000	kg/TJ
2015	Cd	1A2a	COKE (S=1.0%)	0,002732643	kg/TJ
2015	Cd	1A2a	FOREST RESIDUE CHIPS	0,005000000	kg/TJ
2015	Cd	1A2a	HEAVY FUEL OIL (S<1%)	0,000586327	kg/TJ
2015	Cd	1A2a	OTHER FOSSIL LIQUID	0,000300000	kg/TJ
2015	Cd	1A2a	OTHER FOSSIL SOLID	0,000200000	kg/TJ
2015	Cd	1A2a	WOOD RESIDUE CHIPS	0,005000000	kg/TJ
2015	Cd	1A2b	CHIPS FROM ROUNDWOOD	0,005000000	kg/TJ
2015	Cd	1A2b	COAL (S=1.0%)	0,017726070	kg/TJ

2015	Cd	1A2b	COKE (S=1.0%)	0,008299573	kg/TJ
2015	Cd	1A2b	HEAVY FUEL OIL (S<1%)	0,000178760	kg/TJ
2015	Cd	1A2b	OTHER FOSSIL SOLID	0,008299573	kg/TJ
2015	Cd	1A2b	RECYCLED AND WASTE OILS	0,000138326	kg/TJ
2015	Cd	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005000000	kg/TJ
2015	Cd	1A2c	COAL (S=1.0%)	0,000079926	kg/TJ
2015	Cd	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,000300000	kg/TJ
2015	Cd	1A2c	HEAVY FUEL OIL (S<1%)	0,000300000	kg/TJ
2015	Cd	1A2c	OTHER FOSSIL LIQUID	0,000300000	kg/TJ
2015	Cd	1A2c	PETROLEUM COKE	0,018000000	kg/TJ
2015	Cd	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005000000	kg/TJ
2015	Cd	1A2d	ANIMAL-BASED FUELS	0,000199242	kg/TJ
2015	Cd	1A2d	BARK	0,000616553	kg/TJ
2015	Cd	1A2d	BLACK LIQUOR	0,001785825	kg/TJ
2015	Cd	1A2d	CHIPS FROM ROUNDWOOD	0,000673947	kg/TJ
2015	Cd	1A2d	COAL (S=1.0%)	0,000008417	kg/TJ
2015	Cd	1A2d	DEMOLITION WOOD	0,000199242	kg/TJ
2015	Cd	1A2d	FOREST RESIDUE CHIPS	0,000289365	kg/TJ
2015	Cd	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000179225	kg/TJ
2015	Cd	1A2d	HEAVY FUEL OIL (S<1%)	0,000132858	kg/TJ
2015	Cd	1A2d	INDUSTRIAL WASTE	0,000225000	kg/TJ
2015	Cd	1A2d	MILLED PEAT	0,000013018	kg/TJ
2015	Cd	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000594469	kg/TJ
2015	Cd	1A2d	OTHER NON-FOSSIL SOLID	0,000012287	kg/TJ
2015	Cd	1A2d	OTHER WASTE	0,000500000	kg/TJ
2015	Cd	1A2d	OTHER WOOD RESIDUE	0,001872554	kg/TJ
2015	Cd	1A2d	PLASTIC WASTE	0,000224719	kg/TJ
2015	Cd	1A2d	RECOVERED FUEL (REF 2)	0,000240821	kg/TJ
2015	Cd	1A2d	RECOVERED WOOD	0,000174409	kg/TJ
2015	Cd	1A2d	RECYCLED AND WASTE OILS	0,000079697	kg/TJ
2015	Cd	1A2d	SALT TREATED WOOD	0,000199242	kg/TJ
2015	Cd	1A2d	SAWDUST AND CUTTER CHIPS	0,002510452	kg/TJ
2015	Cd	1A2d	SOD PEAT	0,001755270	kg/TJ
2015	Cd	1A2d	SULPHUR CONCENTRATE	0,000031060	kg/TJ
2015	Cd	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,001856927	kg/TJ
2015	Cd	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005000000	kg/TJ
2015	Cd	1A2d	WOOD RESIDUE CHIPS	0,001450882	kg/TJ
2015	Cd	1A2e	BARK	0,005000000	kg/TJ
2015	Cd	1A2e	CHIPS FROM ROUNDWOOD	0,005000000	kg/TJ
2015	Cd	1A2e	COKE (S=1.0%)	0,018000000	kg/TJ
2015	Cd	1A2e	FOREST RESIDUE CHIPS	0,005000000	kg/TJ
2015	Cd	1A2e	HEAVY FUEL OIL (S<1%)	0,000272254	kg/TJ
2015	Cd	1A2e	MILLED PEAT	0,001887290	kg/TJ
2015	Cd	1A2e	SAWDUST AND CUTTER CHIPS	0,005000000	kg/TJ
2015	Cd	1A2e	WOOD RESIDUE CHIPS	0,005000000	kg/TJ

2015	Cd	1A2f	CHIPS FROM ROUNDWOOD	0,005000000	kg/TJ
2015	Cd	1A2f	COAL (S=1.0%)	0,016113164	kg/TJ
2015	Cd	1A2f	COKE (S=1.0%)	0,016132923	kg/TJ
2015	Cd	1A2f	FOREST RESIDUE CHIPS	0,005000000	kg/TJ
2015	Cd	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,000300000	kg/TJ
2015	Cd	1A2f	HEAVY FUEL OIL (S<1%)	0,000273133	kg/TJ
2015	Cd	1A2f	PETROLEUM COKE	0,004729780	kg/TJ
2015	Cd	1A2f	PLASTIC WASTE	0,000311833	kg/TJ
2015	Cd	1A2f	RECOVERED FUEL (REF 2)	0,002993419	kg/TJ
2015	Cd	1A2f	RECOVERED WOOD	0,005000000	kg/TJ
2015	Cd	1A2f	RECYCLED AND WASTE OILS	0,000215014	kg/TJ
2015	Cd	1A2f	RUBBER WASTE	0,000311833	kg/TJ
2015	Cd	1A2f	SAWDUST AND CUTTER CHIPS	0,005000000	kg/TJ
2015	Cd	1A2gvii	DIESEL OIL (S=001%)	0,000234192	kg/TJ
2015	Cd	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,000240660	kg/TJ
2015	Cd	1A2gviii	ANIMAL-BASED FUELS	0,005000000	kg/TJ
2015	Cd	1A2gviii	BARK	0,000500000	kg/TJ
2015	Cd	1A2gviii	CHIPS FROM ROUNDWOOD	0,000500000	kg/TJ
2015	Cd	1A2gviii	COAL (S=1.0%)	0,000615694	kg/TJ
2015	Cd	1A2gviii	FOREST RESIDUE CHIPS	0,001252250	kg/TJ
2015	Cd	1A2gviii	FOREST WOODFUEL	0,005000000	kg/TJ
2015	Cd	1A2gviii	HEAVY FUEL OIL (S<1%)	0,000299077	kg/TJ
2015	Cd	1A2gviii	MILLED PEAT	0,000026353	kg/TJ
2015	Cd	1A2gviii	OTHER NON-FOSSIL SOLID	0,000581522	kg/TJ
2015	Cd	1A2gviii	OTHER PETROLEUM PRODUCTS	0,000300000	kg/TJ
2015	Cd	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,000300000	kg/TJ
2015	Cd	1A2gviii	RECOVERED FUEL (REF 1)	0,005000000	kg/TJ
2015	Cd	1A2gviii	RECYCLED AND WASTE OILS	0,000200000	kg/TJ
2015	Cd	1A2gviii	SAWDUST AND CUTTER CHIPS	0,000500000	kg/TJ
2015	Cd	1A2gviii	SOD PEAT	0,002792373	kg/TJ
2015	Cd	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000520126	kg/TJ
2015	Cd	1A2gviii	WOOD RESIDUE CHIPS	0,000485965	kg/TJ
2015	Cd	1A3bi	DIESEL OIL (S=001%)	0,000203271	kg/TJ
2015	Cd	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000251163	kg/TJ
2015	Cd	1A3bi	NATURAL GAS	0,000212883	kg/TJ
2015	Cd	1A3bii	DIESEL OIL (S=001%)	0,000203271	kg/TJ
2015	Cd	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000251163	kg/TJ
2015	Cd	1A3bii	NATURAL GAS	0,000212883	kg/TJ
2015	Cd	1A3biii	DIESEL OIL (S=001%)	0,000203271	kg/TJ
2015	Cd	1A3biv	DIESEL OIL (S=001%)	0,000203271	kg/TJ
2015	Cd	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000251163	kg/TJ
2015	Cd	1A3c	GASOIL (FOR NON-ROAD USE)	0,000234742	kg/TJ
2015	Cd	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000234088	kg/TJ
2015	Cd	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,000493465	kg/TJ
2015	Cd	1A4ai	CHIPS FROM ROUNDWOOD	0,001008504	kg/TJ

2015	Cd	1A4ai	FOREST RESIDUE CHIPS	0,000225000	kg/TJ
2015	Cd	1A4ai	FOREST WOODFUEL	0,003000000	kg/TJ
2015	Cd	1A4ai	HEAVY FUEL OIL (S<1%)	0,000294289	kg/TJ
2015	Cd	1A4ai	MILLED PEAT	0,002800000	kg/TJ
2015	Cd	1A4ai	SAWDUST AND CUTTER CHIPS	0,000710610	kg/TJ
2015	Cd	1A4ai	SOD PEAT	0,002800000	kg/TJ
2015	Cd	1A4ai	WOOD RESIDUE CHIPS	0,005000000	kg/TJ
2015	Cd	1A4aii	DIESEL OIL (S=001%)	0,000234192	kg/TJ
2015	Cd	1A4aii	LIQUID GAS	0,000217391	kg/TJ
2015	Cd	1A4aii	MOTOR GASOLINE (S=0.001%)	0,000240660	kg/TJ
2015	Cd	1A4bi	COAL (S=1.0%)	0,009818182	kg/TJ
2015	Cd	1A4bi	FOREST WOODFUEL	0,003000000	kg/TJ
2015	Cd	1A4bi	HEAVY FUEL OIL (S<1%)	0,000300000	kg/TJ
2015	Cd	1A4bi	SOD PEAT	0,002800000	kg/TJ
2015	Cd	1A4bii	DIESEL OIL (S=001%)	0,000234192	kg/TJ
2015	Cd	1A4bii	MOTOR GASOLINE (S=0.001%)	0,000240660	kg/TJ
2015	Cd	1A4ci	FOREST WOODFUEL	0,003000000	kg/TJ
2015	Cd	1A4ci	HEAVY FUEL OIL (S<1%)	0,000300000	kg/TJ
2015	Cd	1A4ci	SOD PEAT	0,002800000	kg/TJ
2015	Cd	1A4cii	DIESEL OIL (S=001%)	0,000234192	kg/TJ
2015	Cd	1A4cii	MOTOR GASOLINE (S=0.001%)	0,000240660	kg/TJ
2015	Cd	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000234192	kg/TJ
2015	Cd	1A5a	BARK	0,000500000	kg/TJ
2015	Cd	1A5a	FOREST RESIDUE CHIPS	0,001542961	kg/TJ
2015	Cd	1A5a	HEAVY FUEL OIL (S<1%)	0,000200000	kg/TJ
2015	Cd	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,246618409	kg/TJ
2015	Cd	1A5a	SOD PEAT	0,000166087	kg/TJ
2015	Cd	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Cd	1A5a	WOOD RESIDUE CHIPS	0,002000000	kg/TJ
2015	Cd	5C1a	INDUSTRIAL WASTE	0,000220177	kg/TJ
2015	Cd	5C1a	MUNICIPAL WASTE - unsorted	0,000225000	kg/TJ
2015	Cd	5C1a	RECOVERED FUEL (REF 3)	0,000220177	kg/TJ
2015	Cd	5C1bi	DEMOLITION WOOD	0,000085860	kg/TJ
2015	Cd	5C1bi	FOREST RESIDUE CHIPS	0,000085860	kg/TJ
2015	Cd	5C1bi	HAZARDOUS WASTE	0,000022560	kg/TJ
2015	Cd	5C1bi	HEAVY FUEL OIL (S<1%)	0,000001354	kg/TJ
2015	Cd	5C1bi	MUNICIPAL WASTE - unsorted	0,000457398	kg/TJ
2015	Cd	5C1bi	RECOVERED FUEL (REF 2)	0,000085860	kg/TJ
2015	Cd	5C1bi	RECOVERED WOOD	0,000085860	kg/TJ
2015	Cd	5C1bi	RECYCLED AND WASTE OILS	0,000001354	kg/TJ

Hg Implied emission factors in Finnish air pollutant inventory for 2015

2015	Hg	1A1a	ANIMAL-BASED FUELS	0,000294174	kg/TJ
2015	Hg	1A1a	BARK	0,000435346	kg/TJ
2015	Hg	1A1a	CHIPS FROM ROUNDWOOD	0,000403227	kg/TJ
2015	Hg	1A1a	COAL (S=1.0%)	0,000675034	kg/TJ
2015	Hg	1A1a	DEINKING WASTE	0,000377245	kg/TJ
2015	Hg	1A1a	DEMOLITION WOOD	0,000464966	kg/TJ
2015	Hg	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,000500000	kg/TJ
2015	Hg	1A1a	FOREST RESIDUE CHIPS	0,000393451	kg/TJ
2015	Hg	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000003284	kg/TJ
2015	Hg	1A1a	HEAVY FUEL OIL (S<1%)	0,000032538	kg/TJ
2015	Hg	1A1a	INDUSTRIAL WASTE	0,000404008	kg/TJ
2015	Hg	1A1a	MILLED PEAT	0,001698597	kg/TJ
2015	Hg	1A1a	MUNICIPAL WASTE - unsorted	0,000228524	kg/TJ
2015	Hg	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000458128	kg/TJ
2015	Hg	1A1a	OTHER FOSSIL LIQUID	0,000029632	kg/TJ
2015	Hg	1A1a	OTHER FOSSIL SOLID	0,001400000	kg/TJ
2015	Hg	1A1a	OTHER NON-FOSSIL SOLID	0,000413681	kg/TJ
2015	Hg	1A1a	OTHER WOOD RESIDUE	0,000496576	kg/TJ
2015	Hg	1A1a	PEAT PELLETS AND BRIQUETTES	0,001526849	kg/TJ
2015	Hg	1A1a	RECOVERED FUEL (REF 2)	0,000133618	kg/TJ
2015	Hg	1A1a	RECOVERED WOOD	0,000266739	kg/TJ
2015	Hg	1A1a	RECYCLED AND WASTE OILS	0,000011275	kg/TJ
2015	Hg	1A1a	SALT TREATED WOOD	0,000480949	kg/TJ
2015	Hg	1A1a	SAWDUST AND CUTTER CHIPS	0,000517523	kg/TJ
2015	Hg	1A1a	SOD PEAT	0,001826364	kg/TJ
2015	Hg	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,001309288	kg/TJ
2015	Hg	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000483932	kg/TJ
2015	Hg	1A1a	WOOD RESIDUE CHIPS	0,000408007	kg/TJ
2015	Hg	1A1b	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A1b	OTHER HEAVY DISTILLATES	0,000030000	kg/TJ
2015	Hg	1A1b	OTHER WASTE	0,000500000	kg/TJ
2015	Hg	1A1b	PETROLEUM COKE	0,003700000	kg/TJ
2015	Hg	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A2a	COKE (S=1.0%)	0,001071387	kg/TJ
2015	Hg	1A2a	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A2a	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2a	OTHER FOSSIL LIQUID	0,000030000	kg/TJ
2015	Hg	1A2a	OTHER FOSSIL SOLID	0,001400000	kg/TJ
2015	Hg	1A2a	WOOD RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A2b	CHIPS FROM ROUNDWOOD	0,000500000	kg/TJ
2015	Hg	1A2b	COAL (S=1.0%)	0,003700000	kg/TJ

2015	Hg	1A2b	COKE (S=1.0%)	0,003700000	kg/TJ
2015	Hg	1A2b	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2b	OTHER FOSSIL SOLID	0,003700000	kg/TJ
2015	Hg	1A2b	RECYCLED AND WASTE OILS	0,000030000	kg/TJ
2015	Hg	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A2c	COAL (S=1.0%)	0,000959106	kg/TJ
2015	Hg	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,000030000	kg/TJ
2015	Hg	1A2c	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2c	OTHER FOSSIL LIQUID	0,000030000	kg/TJ
2015	Hg	1A2c	PETROLEUM COKE	0,003700000	kg/TJ
2015	Hg	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A2d	ANIMAL-BASED FUELS	0,000013803	kg/TJ
2015	Hg	1A2d	BARK	0,000536673	kg/TJ
2015	Hg	1A2d	BLACK LIQUOR	0,000564279	kg/TJ
2015	Hg	1A2d	CHIPS FROM ROUNDWOOD	0,000453151	kg/TJ
2015	Hg	1A2d	COAL (S=1.0%)	0,000857177	kg/TJ
2015	Hg	1A2d	DEMOLITION WOOD	0,000013803	kg/TJ
2015	Hg	1A2d	FOREST RESIDUE CHIPS	0,000584860	kg/TJ
2015	Hg	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000026294	kg/TJ
2015	Hg	1A2d	HEAVY FUEL OIL (S<1%)	0,000030456	kg/TJ
2015	Hg	1A2d	INDUSTRIAL WASTE	0,000339286	kg/TJ
2015	Hg	1A2d	MILLED PEAT	0,001372134	kg/TJ
2015	Hg	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000404987	kg/TJ
2015	Hg	1A2d	OTHER NON-FOSSIL SOLID	0,000333674	kg/TJ
2015	Hg	1A2d	OTHER WASTE	0,002059921	kg/TJ
2015	Hg	1A2d	OTHER WOOD RESIDUE	0,000496834	kg/TJ
2015	Hg	1A2d	PLASTIC WASTE	0,000487730	kg/TJ
2015	Hg	1A2d	RECOVERED FUEL (REF 2)	0,000328771	kg/TJ
2015	Hg	1A2d	RECOVERED WOOD	0,000206311	kg/TJ
2015	Hg	1A2d	RECYCLED AND WASTE OILS	0,000000828	kg/TJ
2015	Hg	1A2d	SALT TREATED WOOD	0,000013803	kg/TJ
2015	Hg	1A2d	SAWDUST AND CUTTER CHIPS	0,000532715	kg/TJ
2015	Hg	1A2d	SOD PEAT	0,002124947	kg/TJ
2015	Hg	1A2d	SULPHUR CONCENTRATE	0,000003339	kg/TJ
2015	Hg	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000456341	kg/TJ
2015	Hg	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A2d	WOOD RESIDUE CHIPS	0,000870057	kg/TJ
2015	Hg	1A2e	BARK	0,000500000	kg/TJ
2015	Hg	1A2e	CHIPS FROM ROUNDWOOD	0,000500000	kg/TJ
2015	Hg	1A2e	COKE (S=1.0%)	0,003700000	kg/TJ
2015	Hg	1A2e	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A2e	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2e	MILLED PEAT	0,002173193	kg/TJ
2015	Hg	1A2e	SAWDUST AND CUTTER CHIPS	0,000500000	kg/TJ
2015	Hg	1A2e	WOOD RESIDUE CHIPS	0,000500000	kg/TJ

2015	Hg	1A2f	CHIPS FROM ROUNDWOOD	0,000500000	kg/TJ
2015	Hg	1A2f	COAL (S=1.0%)	0,003457222	kg/TJ
2015	Hg	1A2f	COKE (S=1.0%)	0,003459764	kg/TJ
2015	Hg	1A2f	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,000030000	kg/TJ
2015	Hg	1A2f	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2f	PETROLEUM COKE	0,001992529	kg/TJ
2015	Hg	1A2f	PLASTIC WASTE	0,000500000	kg/TJ
2015	Hg	1A2f	RECOVERED FUEL (REF 2)	0,000500000	kg/TJ
2015	Hg	1A2f	RECOVERED WOOD	0,000500000	kg/TJ
2015	Hg	1A2f	RECYCLED AND WASTE OILS	0,000030000	kg/TJ
2015	Hg	1A2f	RUBBER WASTE	0,000500000	kg/TJ
2015	Hg	1A2f	SAWDUST AND CUTTER CHIPS	0,000500000	kg/TJ
2015	Hg	1A2gviii	ANIMAL-BASED FUELS	0,000500000	kg/TJ
2015	Hg	1A2gviii	BARK	0,000500000	kg/TJ
2015	Hg	1A2gviii	CHIPS FROM ROUNDWOOD	0,000500000	kg/TJ
2015	Hg	1A2gviii	COAL (S=1.0%)	0,001453713	kg/TJ
2015	Hg	1A2gviii	FOREST RESIDUE CHIPS	0,000434430	kg/TJ
2015	Hg	1A2gviii	FOREST WOODFUEL	0,000500000	kg/TJ
2015	Hg	1A2gviii	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A2gviii	MILLED PEAT	0,001307647	kg/TJ
2015	Hg	1A2gviii	OTHER NON-FOSSIL SOLID	0,000500000	kg/TJ
2015	Hg	1A2gviii	OTHER PETROLEUM PRODUCTS	0,000030000	kg/TJ
2015	Hg	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,000030000	kg/TJ
2015	Hg	1A2gviii	RECOVERED FUEL (REF 1)	0,000500000	kg/TJ
2015	Hg	1A2gviii	RECYCLED AND WASTE OILS	0,000030000	kg/TJ
2015	Hg	1A2gviii	SAWDUST AND CUTTER CHIPS	0,000500000	kg/TJ
2015	Hg	1A2gviii	SOD PEAT	0,002602555	kg/TJ
2015	Hg	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A2gviii	WOOD RESIDUE CHIPS	0,001445551	kg/TJ
2015	Hg	1A3bi	DIESEL OIL (S=001%)	0,000123832	kg/TJ
2015	Hg	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000202326	kg/TJ
2015	Hg	1A3bii	DIESEL OIL (S=001%)	0,000123832	kg/TJ
2015	Hg	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000202326	kg/TJ
2015	Hg	1A3biii	DIESEL OIL (S=001%)	0,000123832	kg/TJ
2015	Hg	1A3biv	DIESEL OIL (S=001%)	0,000123832	kg/TJ
2015	Hg	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000202326	kg/TJ
2015	Hg	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000702263	kg/TJ
2015	Hg	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,000493465	kg/TJ
2015	Hg	1A4ai	CHIPS FROM ROUNDWOOD	0,000365656	kg/TJ
2015	Hg	1A4ai	FOREST RESIDUE CHIPS	0,000339286	kg/TJ
2015	Hg	1A4ai	FOREST WOODFUEL	0,000500000	kg/TJ
2015	Hg	1A4ai	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A4ai	MILLED PEAT	0,002600000	kg/TJ
2015	Hg	1A4ai	SAWDUST AND CUTTER CHIPS	0,000355630	kg/TJ

2015	Hg	1A4ai	SOD PEAT	0,002600000	kg/TJ
2015	Hg	1A4ai	WOOD RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A4bi	COAL (S=1.0%)	0,002018182	kg/TJ
2015	Hg	1A4bi	FOREST WOODFUEL	0,000500000	kg/TJ
2015	Hg	1A4bi	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A4bi	SOD PEAT	0,002600000	kg/TJ
2015	Hg	1A4ci	FOREST WOODFUEL	0,000500000	kg/TJ
2015	Hg	1A4ci	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A4ci	SOD PEAT	0,002600000	kg/TJ
2015	Hg	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000702576	kg/TJ
2015	Hg	1A5a	BARK	0,000500000	kg/TJ
2015	Hg	1A5a	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	1A5a	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,652033214	kg/TJ
2015	Hg	1A5a	SOD PEAT	0,001475845	kg/TJ
2015	Hg	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000500000	kg/TJ
2015	Hg	1A5a	WOOD RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	5C1a	INDUSTRIAL WASTE	0,000335507	kg/TJ
2015	Hg	5C1a	MUNICIPAL WASTE - unsorted	0,000339286	kg/TJ
2015	Hg	5C1a	RECOVERED FUEL (REF 3)	0,000335507	kg/TJ
2015	Hg	5C1bi	DEMOLITION WOOD	0,000500000	kg/TJ
2015	Hg	5C1bi	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Hg	5C1bi	HAZARDOUS WASTE	0,000500000	kg/TJ
2015	Hg	5C1bi	HEAVY FUEL OIL (S<1%)	0,000030000	kg/TJ
2015	Hg	5C1bi	MUNICIPAL WASTE - unsorted	0,000329270	kg/TJ
2015	Hg	5C1bi	RECOVERED FUEL (REF 2)	0,000500000	kg/TJ
2015	Hg	5C1bi	RECOVERED WOOD	0,000500000	kg/TJ
2015	Hg	5C1bi	RECYCLED AND WASTE OILS	0,000030000	kg/TJ

As Implied emission factors in Finnish air pollutant inventory for 2015

2015	As	1A1a	ANIMAL-BASED FUELS	0,000099268	kg/TJ
2015	As	1A1a	BARK	0,000166469	kg/TJ
2015	As	1A1a	CHIPS FROM ROUNDWOOD	0,000192099	kg/TJ
2015	As	1A1a	COAL (S=1.0%)	0,002347561	kg/TJ
2015	As	1A1a	DEINKING WASTE	0,000035326	kg/TJ
2015	As	1A1a	DEMOLITION WOOD	0,000100000	kg/TJ
2015	As	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,001000000	kg/TJ
2015	As	1A1a	FOREST RESIDUE CHIPS	0,000226151	kg/TJ
2015	As	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,001488910	kg/TJ
2015	As	1A1a	HEAVY FUEL OIL (S<1%)	0,001536452	kg/TJ
2015	As	1A1a	INDUSTRIAL WASTE	0,000390263	kg/TJ
2015	As	1A1a	MILLED PEAT	0,008039676	kg/TJ
2015	As	1A1a	MUNICIPAL WASTE - unsorted	0,000027264	kg/TJ
2015	As	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000097897	kg/TJ
2015	As	1A1a	OTHER FOSSIL LIQUID	0,000967222	kg/TJ
2015	As	1A1a	OTHER FOSSIL SOLID	0,007800000	kg/TJ
2015	As	1A1a	OTHER NON-FOSSIL SOLID	0,000096200	kg/TJ
2015	As	1A1a	OTHER WOOD RESIDUE	0,000164250	kg/TJ
2015	As	1A1a	PEAT PELLETS AND BRIQUETTES	0,024174312	kg/TJ
2015	As	1A1a	RECOVERED FUEL (REF 2)	0,000274722	kg/TJ
2015	As	1A1a	RECOVERED WOOD	0,000134620	kg/TJ
2015	As	1A1a	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	As	1A1a	SALT TREATED WOOD	0,000100000	kg/TJ
2015	As	1A1a	SAWDUST AND CUTTER CHIPS	0,000335233	kg/TJ
2015	As	1A1a	SOD PEAT	0,030381533	kg/TJ
2015	As	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000331859	kg/TJ
2015	As	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000294145	kg/TJ
2015	As	1A1a	WOOD RESIDUE CHIPS	0,000342457	kg/TJ
2015	As	1A1b	HEAVY FUEL OIL (S<1%)	0,001003961	kg/TJ
2015	As	1A1b	OTHER HEAVY DISTILLATES	0,001000000	kg/TJ
2015	As	1A1b	OTHER WASTE	0,001000000	kg/TJ
2015	As	1A1b	PETROLEUM COKE	0,130000000	kg/TJ
2015	As	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001000000	kg/TJ
2015	As	1A2a	COKE (S=1.0%)	0,006653708	kg/TJ
2015	As	1A2a	FOREST RESIDUE CHIPS	0,001000000	kg/TJ
2015	As	1A2a	HEAVY FUEL OIL (S<1%)	0,001881491	kg/TJ
2015	As	1A2a	OTHER FOSSIL LIQUID	0,002000000	kg/TJ
2015	As	1A2a	OTHER FOSSIL SOLID	0,007800000	kg/TJ
2015	As	1A2a	WOOD RESIDUE CHIPS	0,001000000	kg/TJ
2015	As	1A2b	CHIPS FROM ROUNDWOOD	0,001000000	kg/TJ
2015	As	1A2b	COAL (S=1.0%)	0,130000000	kg/TJ

2015	As	1A2b	COKE (S=1.0%)	0,130000000	kg/TJ
2015	As	1A2b	HEAVY FUEL OIL (S<1%)	0,002000000	kg/TJ
2015	As	1A2b	OTHER FOSSIL SOLID	0,130000000	kg/TJ
2015	As	1A2b	RECYCLED AND WASTE OILS	0,002000000	kg/TJ
2015	As	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001000000	kg/TJ
2015	As	1A2c	COAL (S=1.0%)	0,001039032	kg/TJ
2015	As	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,002000000	kg/TJ
2015	As	1A2c	HEAVY FUEL OIL (S<1%)	0,002007875	kg/TJ
2015	As	1A2c	OTHER FOSSIL LIQUID	0,002000000	kg/TJ
2015	As	1A2c	PETROLEUM COKE	0,130000000	kg/TJ
2015	As	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001000000	kg/TJ
2015	As	1A2d	ANIMAL-BASED FUELS	0,000012821	kg/TJ
2015	As	1A2d	BARK	0,000112873	kg/TJ
2015	As	1A2d	BLACK LIQUOR	0,000930081	kg/TJ
2015	As	1A2d	CHIPS FROM ROUNDWOOD	0,000146092	kg/TJ
2015	As	1A2d	COAL (S=1.0%)	0,001253393	kg/TJ
2015	As	1A2d	DEMOLITION WOOD	0,000012821	kg/TJ
2015	As	1A2d	FOREST RESIDUE CHIPS	0,000091468	kg/TJ
2015	As	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000381066	kg/TJ
2015	As	1A2d	HEAVY FUEL OIL (S<1%)	0,001091856	kg/TJ
2015	As	1A2d	INDUSTRIAL WASTE	0,000012821	kg/TJ
2015	As	1A2d	MILLED PEAT	0,000451564	kg/TJ
2015	As	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000107698	kg/TJ
2015	As	1A2d	OTHER NON-FOSSIL SOLID	0,000012821	kg/TJ
2015	As	1A2d	OTHER WASTE	0,000158393	kg/TJ
2015	As	1A2d	OTHER WOOD RESIDUE	0,000374553	kg/TJ
2015	As	1A2d	PLASTIC WASTE	0,000099639	kg/TJ
2015	As	1A2d	RECOVERED FUEL (REF 2)	0,000035527	kg/TJ
2015	As	1A2d	RECOVERED WOOD	0,000055118	kg/TJ
2015	As	1A2d	RECYCLED AND WASTE OILS	0,000128205	kg/TJ
2015	As	1A2d	SALT TREATED WOOD	0,000012821	kg/TJ
2015	As	1A2d	SAWDUST AND CUTTER CHIPS	0,000504301	kg/TJ
2015	As	1A2d	SOD PEAT	0,050768732	kg/TJ
2015	As	1A2d	SULPHUR CONCENTRATE	0,000012821	kg/TJ
2015	As	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000362043	kg/TJ
2015	As	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,001000000	kg/TJ
2015	As	1A2d	WOOD RESIDUE CHIPS	0,000296005	kg/TJ
2015	As	1A2e	BARK	0,001000000	kg/TJ
2015	As	1A2e	CHIPS FROM ROUNDWOOD	0,001000000	kg/TJ
2015	As	1A2e	COKE (S=1.0%)	0,130000000	kg/TJ
2015	As	1A2e	FOREST RESIDUE CHIPS	0,001000000	kg/TJ
2015	As	1A2e	HEAVY FUEL OIL (S<1%)	0,001722536	kg/TJ
2015	As	1A2e	MILLED PEAT	0,054570802	kg/TJ
2015	As	1A2e	SAWDUST AND CUTTER CHIPS	0,001000000	kg/TJ
2015	As	1A2e	WOOD RESIDUE CHIPS	0,001000000	kg/TJ

2015	As	1A2f	CHIPS FROM ROUNDWOOD	0,001000000	kg/TJ
2015	As	1A2f	COAL (S=1.0%)	0,116439277	kg/TJ
2015	As	1A2f	COKE (S=1.0%)	0,116581286	kg/TJ
2015	As	1A2f	FOREST RESIDUE CHIPS	0,001000000	kg/TJ
2015	As	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,002000000	kg/TJ
2015	As	1A2f	HEAVY FUEL OIL (S<1%)	0,001728905	kg/TJ
2015	As	1A2f	PETROLEUM COKE	0,034626694	kg/TJ
2015	As	1A2f	PLASTIC WASTE	0,000019617	kg/TJ
2015	As	1A2f	RECOVERED FUEL (REF 2)	0,000580387	kg/TJ
2015	As	1A2f	RECOVERED WOOD	0,001000000	kg/TJ
2015	As	1A2f	RECYCLED AND WASTE OILS	0,001125336	kg/TJ
2015	As	1A2f	RUBBER WASTE	0,000019617	kg/TJ
2015	As	1A2f	SAWDUST AND CUTTER CHIPS	0,001000000	kg/TJ
2015	As	1A2gviii	ANIMAL-BASED FUELS	0,001000000	kg/TJ
2015	As	1A2gviii	BARK	0,000100000	kg/TJ
2015	As	1A2gviii	CHIPS FROM ROUNDWOOD	0,000100000	kg/TJ
2015	As	1A2gviii	COAL (S=1.0%)	0,010653813	kg/TJ
2015	As	1A2gviii	FOREST RESIDUE CHIPS	0,000179691	kg/TJ
2015	As	1A2gviii	FOREST WOODFUEL	0,001000000	kg/TJ
2015	As	1A2gviii	HEAVY FUEL OIL (S<1%)	0,001990771	kg/TJ
2015	As	1A2gviii	MILLED PEAT	0,000691182	kg/TJ
2015	As	1A2gviii	OTHER NON-FOSSIL SOLID	0,000111298	kg/TJ
2015	As	1A2gviii	OTHER PETROLEUM PRODUCTS	0,002000000	kg/TJ
2015	As	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,002000000	kg/TJ
2015	As	1A2gviii	RECOVERED FUEL (REF 1)	0,001000000	kg/TJ
2015	As	1A2gviii	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	As	1A2gviii	SAWDUST AND CUTTER CHIPS	0,000100000	kg/TJ
2015	As	1A2gviii	SOD PEAT	0,080783738	kg/TJ
2015	As	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000104025	kg/TJ
2015	As	1A2gviii	WOOD RESIDUE CHIPS	0,000414365	kg/TJ
2015	As	1A3bi	DIESEL OIL (S=001%)	0,000002336	kg/TJ
2015	As	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000006977	kg/TJ
2015	As	1A3bii	DIESEL OIL (S=001%)	0,000002336	kg/TJ
2015	As	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000006977	kg/TJ
2015	As	1A3biii	DIESEL OIL (S=001%)	0,000002336	kg/TJ
2015	As	1A3biv	DIESEL OIL (S=001%)	0,000002336	kg/TJ
2015	As	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000006977	kg/TJ
2015	As	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000936351	kg/TJ
2015	As	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,016777798	kg/TJ
2015	As	1A4ai	CHIPS FROM ROUNDWOOD	0,000174802	kg/TJ
2015	As	1A4ai	FOREST RESIDUE CHIPS	0,000012821	kg/TJ
2015	As	1A4ai	FOREST WOODFUEL	0,001000000	kg/TJ
2015	As	1A4ai	HEAVY FUEL OIL (S<1%)	0,001901830	kg/TJ
2015	As	1A4ai	MILLED PEAT	0,081000000	kg/TJ
2015	As	1A4ai	SAWDUST AND CUTTER CHIPS	0,000113215	kg/TJ

2015	As	1A4ai	SOD PEAT	0,081000000	kg/TJ
2015	As	1A4ai	WOOD RESIDUE CHIPS	0,001000000	kg/TJ
2015	As	1A4bi	COAL (S=1.0%)	0,070909091	kg/TJ
2015	As	1A4bi	FOREST WOODFUEL	0,001000000	kg/TJ
2015	As	1A4bi	HEAVY FUEL OIL (S<1%)	0,002000000	kg/TJ
2015	As	1A4bi	SOD PEAT	0,081000000	kg/TJ
2015	As	1A4ci	FOREST WOODFUEL	0,001000000	kg/TJ
2015	As	1A4ci	HEAVY FUEL OIL (S<1%)	0,002000000	kg/TJ
2015	As	1A4ci	SOD PEAT	0,081000000	kg/TJ
2015	As	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000936768	kg/TJ
2015	As	1A5a	BARK	0,000100000	kg/TJ
2015	As	1A5a	FOREST RESIDUE CHIPS	0,000239061	kg/TJ
2015	As	1A5a	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	As	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,869377618	kg/TJ
2015	As	1A5a	SOD PEAT	0,004896135	kg/TJ
2015	As	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000100000	kg/TJ
2015	As	1A5a	WOOD RESIDUE CHIPS	0,000300000	kg/TJ
2015	As	5C1a	INDUSTRIAL WASTE	0,000010485	kg/TJ
2015	As	5C1a	MUNICIPAL WASTE - unsorted	0,000012821	kg/TJ
2015	As	5C1a	RECOVERED FUEL (REF 3)	0,000010485	kg/TJ
2015	As	5C1bi	DEMOLITION WOOD	0,000515161	kg/TJ
2015	As	5C1bi	FOREST RESIDUE CHIPS	0,000515161	kg/TJ
2015	As	5C1bi	HAZARDOUS WASTE	0,000187637	kg/TJ
2015	As	5C1bi	HEAVY FUEL OIL (S<1%)	0,000375275	kg/TJ
2015	As	5C1bi	MUNICIPAL WASTE - unsorted	0,001000000	kg/TJ
2015	As	5C1bi	RECOVERED FUEL (REF 2)	0,000515161	kg/TJ
2015	As	5C1bi	RECOVERED WOOD	0,000515161	kg/TJ
2015	As	5C1bi	RECYCLED AND WASTE OILS	0,000375275	kg/TJ

Cr Implied emission factors in Finnish air pollutant inventory for 2015

2015	Cr	1A1a	ANIMAL-BASED FUELS	0,001417598	kg/TJ
2015	Cr	1A1a	BARK	0,004072547	kg/TJ
2015	Cr	1A1a	CHIPS FROM ROUNDWOOD	0,005568072	kg/TJ
2015	Cr	1A1a	COAL (S=1.0%)	0,002098059	kg/TJ
2015	Cr	1A1a	DEINKING WASTE	0,000644948	kg/TJ
2015	Cr	1A1a	DEMOLITION WOOD	0,001898953	kg/TJ
2015	Cr	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,035000000	kg/TJ
2015	Cr	1A1a	FOREST RESIDUE CHIPS	0,005046372	kg/TJ
2015	Cr	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000124828	kg/TJ
2015	Cr	1A1a	HEAVY FUEL OIL (S<1%)	0,000787015	kg/TJ
2015	Cr	1A1a	INDUSTRIAL WASTE	0,013730111	kg/TJ
2015	Cr	1A1a	MILLED PEAT	0,009055675	kg/TJ
2015	Cr	1A1a	MUNICIPAL WASTE - unsorted	0,000508286	kg/TJ
2015	Cr	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,001846790	kg/TJ
2015	Cr	1A1a	OTHER FOSSIL LIQUID	0,000500000	kg/TJ
2015	Cr	1A1a	OTHER FOSSIL SOLID	0,005000000	kg/TJ
2015	Cr	1A1a	OTHER NON-FOSSIL SOLID	0,005938105	kg/TJ
2015	Cr	1A1a	OTHER WOOD RESIDUE	0,004382695	kg/TJ
2015	Cr	1A1a	PEAT PELLETS AND BRIQUETTES	0,042096250	kg/TJ
2015	Cr	1A1a	RECOVERED FUEL (REF 2)	0,014078051	kg/TJ
2015	Cr	1A1a	RECOVERED WOOD	0,016890196	kg/TJ
2015	Cr	1A1a	RECYCLED AND WASTE OILS	0,000196919	kg/TJ
2015	Cr	1A1a	SALT TREATED WOOD	0,000868650	kg/TJ
2015	Cr	1A1a	SAWDUST AND CUTTER CHIPS	0,006504638	kg/TJ
2015	Cr	1A1a	SOD PEAT	0,051373774	kg/TJ
2015	Cr	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,012607426	kg/TJ
2015	Cr	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,009298565	kg/TJ
2015	Cr	1A1a	WOOD RESIDUE CHIPS	0,010582896	kg/TJ
2015	Cr	1A1b	HEAVY FUEL OIL (S<1%)	0,000501980	kg/TJ
2015	Cr	1A1b	OTHER HEAVY DISTILLATES	0,000500000	kg/TJ
2015	Cr	1A1b	OTHER WASTE	0,035000000	kg/TJ
2015	Cr	1A1b	PETROLEUM COKE	1,000000000	kg/TJ
2015	Cr	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,035000000	kg/TJ
2015	Cr	1A2a	COKE (S=1.0%)	0,166611937	kg/TJ
2015	Cr	1A2a	FOREST RESIDUE CHIPS	0,035000000	kg/TJ
2015	Cr	1A2a	HEAVY FUEL OIL (S<1%)	0,001954424	kg/TJ
2015	Cr	1A2a	OTHER FOSSIL LIQUID	0,001000000	kg/TJ
2015	Cr	1A2a	OTHER FOSSIL SOLID	0,005000000	kg/TJ
2015	Cr	1A2a	WOOD RESIDUE CHIPS	0,035000000	kg/TJ
2015	Cr	1A2b	CHIPS FROM ROUNDWOOD	0,035000000	kg/TJ
2015	Cr	1A2b	COAL (S=1.0%)	1,000000000	kg/TJ

2015	Cr	1A2b	COKE (S=1.0%)	1,000000000	kg/TJ
2015	Cr	1A2b	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	Cr	1A2b	OTHER FOSSIL SOLID	1,000000000	kg/TJ
2015	Cr	1A2b	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	Cr	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,035000000	kg/TJ
2015	Cr	1A2c	COAL (S=1.0%)	0,001518585	kg/TJ
2015	Cr	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,001000000	kg/TJ
2015	Cr	1A2c	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	Cr	1A2c	OTHER FOSSIL LIQUID	0,001000000	kg/TJ
2015	Cr	1A2c	PETROLEUM COKE	1,000000000	kg/TJ
2015	Cr	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,035000000	kg/TJ
2015	Cr	1A2d	ANIMAL-BASED FUELS	0,000600000	kg/TJ
2015	Cr	1A2d	BARK	0,003169212	kg/TJ
2015	Cr	1A2d	BLACK LIQUOR	0,000256314	kg/TJ
2015	Cr	1A2d	CHIPS FROM ROUNDWOOD	0,003761446	kg/TJ
2015	Cr	1A2d	COAL (S=1.0%)	0,000483185	kg/TJ
2015	Cr	1A2d	DEMOLITION WOOD	0,000600000	kg/TJ
2015	Cr	1A2d	FOREST RESIDUE CHIPS	0,001796310	kg/TJ
2015	Cr	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000225937	kg/TJ
2015	Cr	1A2d	HEAVY FUEL OIL (S<1%)	0,000605787	kg/TJ
2015	Cr	1A2d	INDUSTRIAL WASTE	0,000600000	kg/TJ
2015	Cr	1A2d	MILLED PEAT	0,000718784	kg/TJ
2015	Cr	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,003144042	kg/TJ
2015	Cr	1A2d	OTHER NON-FOSSIL SOLID	0,000126188	kg/TJ
2015	Cr	1A2d	OTHER WASTE	0,003090913	kg/TJ
2015	Cr	1A2d	OTHER WOOD RESIDUE	0,012078396	kg/TJ
2015	Cr	1A2d	PLASTIC WASTE	0,000933295	kg/TJ
2015	Cr	1A2d	RECOVERED FUEL (REF 2)	0,000808246	kg/TJ
2015	Cr	1A2d	RECOVERED WOOD	0,001279248	kg/TJ
2015	Cr	1A2d	RECYCLED AND WASTE OILS	0,000150000	kg/TJ
2015	Cr	1A2d	SALT TREATED WOOD	0,000600000	kg/TJ
2015	Cr	1A2d	SAWDUST AND CUTTER CHIPS	0,016951626	kg/TJ
2015	Cr	1A2d	SOD PEAT	0,087707369	kg/TJ
2015	Cr	1A2d	SULPHUR CONCENTRATE	0,000600000	kg/TJ
2015	Cr	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,012109076	kg/TJ
2015	Cr	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,035000000	kg/TJ
2015	Cr	1A2d	WOOD RESIDUE CHIPS	0,009155281	kg/TJ
2015	Cr	1A2e	BARK	0,035000000	kg/TJ
2015	Cr	1A2e	CHIPS FROM ROUNDWOOD	0,035000000	kg/TJ
2015	Cr	1A2e	COKE (S=1.0%)	1,000000000	kg/TJ
2015	Cr	1A2e	FOREST RESIDUE CHIPS	0,035000000	kg/TJ
2015	Cr	1A2e	HEAVY FUEL OIL (S<1%)	0,000861268	kg/TJ
2015	Cr	1A2e	MILLED PEAT	0,094298828	kg/TJ
2015	Cr	1A2e	SAWDUST AND CUTTER CHIPS	0,035000000	kg/TJ
2015	Cr	1A2e	WOOD RESIDUE CHIPS	0,035000000	kg/TJ

2015	Cr	1A2f	CHIPS FROM ROUNDWOOD	0,035000000	kg/TJ
2015	Cr	1A2f	COAL (S=1.0%)	0,894694629	kg/TJ
2015	Cr	1A2f	COKE (S=1.0%)	0,647772942	kg/TJ
2015	Cr	1A2f	FOREST RESIDUE CHIPS	0,035000000	kg/TJ
2015	Cr	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,001000000	kg/TJ
2015	Cr	1A2f	HEAVY FUEL OIL (S<1%)	0,000871030	kg/TJ
2015	Cr	1A2f	PETROLEUM COKE	0,259381601	kg/TJ
2015	Cr	1A2f	PLASTIC WASTE	0,000948535	kg/TJ
2015	Cr	1A2f	RECOVERED FUEL (REF 2)	0,020425645	kg/TJ
2015	Cr	1A2f	RECOVERED WOOD	0,035000000	kg/TJ
2015	Cr	1A2f	RECYCLED AND WASTE OILS	0,000630091	kg/TJ
2015	Cr	1A2f	RUBBER WASTE	0,000948535	kg/TJ
2015	Cr	1A2f	SAWDUST AND CUTTER CHIPS	0,035000000	kg/TJ
2015	Cr	1A2gvii	DIESEL OIL (S=001%)	0,001170960	kg/TJ
2015	Cr	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,001203299	kg/TJ
2015	Cr	1A2gviii	ANIMAL-BASED FUELS	0,035000000	kg/TJ
2015	Cr	1A2gviii	BARK	0,002000000	kg/TJ
2015	Cr	1A2gviii	CHIPS FROM ROUNDWOOD	0,002000000	kg/TJ
2015	Cr	1A2gviii	COAL (S=1.0%)	0,028236854	kg/TJ
2015	Cr	1A2gviii	FOREST RESIDUE CHIPS	0,005462900	kg/TJ
2015	Cr	1A2gviii	FOREST WOODFUEL	0,035000000	kg/TJ
2015	Cr	1A2gviii	HEAVY FUEL OIL (S<1%)	0,000995386	kg/TJ
2015	Cr	1A2gviii	MILLED PEAT	0,001124715	kg/TJ
2015	Cr	1A2gviii	OTHER NON-FOSSIL SOLID	0,002397554	kg/TJ
2015	Cr	1A2gviii	OTHER PETROLEUM PRODUCTS	0,001000000	kg/TJ
2015	Cr	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	Cr	1A2gviii	RECOVERED FUEL (REF 1)	0,035000000	kg/TJ
2015	Cr	1A2gviii	RECYCLED AND WASTE OILS	0,000500000	kg/TJ
2015	Cr	1A2gviii	SAWDUST AND CUTTER CHIPS	0,002000000	kg/TJ
2015	Cr	1A2gviii	SOD PEAT	0,139619821	kg/TJ
2015	Cr	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,002147589	kg/TJ
2015	Cr	1A2gviii	WOOD RESIDUE CHIPS	0,002737657	kg/TJ
2015	Cr	1A3bi	DIESEL OIL (S=001%)	0,000700935	kg/TJ
2015	Cr	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000372093	kg/TJ
2015	Cr	1A3bi	NATURAL GAS	0,000186775	kg/TJ
2015	Cr	1A3bii	DIESEL OIL (S=001%)	0,000700935	kg/TJ
2015	Cr	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000372093	kg/TJ
2015	Cr	1A3bii	NATURAL GAS	0,000186775	kg/TJ
2015	Cr	1A3biii	DIESEL OIL (S=001%)	0,000700935	kg/TJ
2015	Cr	1A3biv	DIESEL OIL (S=001%)	0,000700935	kg/TJ
2015	Cr	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000372093	kg/TJ
2015	Cr	1A3c	GASOIL (FOR NON-ROAD USE)	0,001173709	kg/TJ
2015	Cr	1A3dii	GASOIL (FOR NON-ROAD USE)	0,001170439	kg/TJ
2015	Cr	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,017764728	kg/TJ
2015	Cr	1A4ai	CHIPS FROM ROUNDWOOD	0,006244513	kg/TJ

2015	Cr	1A4ai	FOREST RESIDUE CHIPS	0,000600000	kg/TJ
2015	Cr	1A4ai	FOREST WOODFUEL	0,035000000	kg/TJ
2015	Cr	1A4ai	HEAVY FUEL OIL (S<1%)	0,000955257	kg/TJ
2015	Cr	1A4ai	MILLED PEAT	0,140000000	kg/TJ
2015	Cr	1A4ai	SAWDUST AND CUTTER CHIPS	0,004098428	kg/TJ
2015	Cr	1A4ai	SOD PEAT	0,140000000	kg/TJ
2015	Cr	1A4ai	WOOD RESIDUE CHIPS	0,035000000	kg/TJ
2015	Cr	1A4aii	DIESEL OIL (S=001%)	0,001170960	kg/TJ
2015	Cr	1A4aii	LIQUID GAS	0,001086957	kg/TJ
2015	Cr	1A4aii	MOTOR GASOLINE (S=0.001%)	0,001203299	kg/TJ
2015	Cr	1A4bi	COAL (S=1.0%)	0,545454545	kg/TJ
2015	Cr	1A4bi	FOREST WOODFUEL	0,035000000	kg/TJ
2015	Cr	1A4bi	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	Cr	1A4bi	SOD PEAT	0,140000000	kg/TJ
2015	Cr	1A4bii	DIESEL OIL (S=001%)	0,001170960	kg/TJ
2015	Cr	1A4bii	MOTOR GASOLINE (S=0.001%)	0,001203299	kg/TJ
2015	Cr	1A4ci	FOREST WOODFUEL	0,035000000	kg/TJ
2015	Cr	1A4ci	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	Cr	1A4ci	SOD PEAT	0,140000000	kg/TJ
2015	Cr	1A4cii	DIESEL OIL (S=001%)	0,001170960	kg/TJ
2015	Cr	1A4cii	MOTOR GASOLINE (S=0.001%)	0,001203299	kg/TJ
2015	Cr	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,001170960	kg/TJ
2015	Cr	1A5a	BARK	0,002000000	kg/TJ
2015	Cr	1A5a	FOREST RESIDUE CHIPS	0,006867149	kg/TJ
2015	Cr	1A5a	HEAVY FUEL OIL (S<1%)	0,000500000	kg/TJ
2015	Cr	1A5a	LIGHT FUEL OIL (S=0.0915%)	1,233092046	kg/TJ
2015	Cr	1A5a	SOD PEAT	0,008266667	kg/TJ
2015	Cr	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,002000000	kg/TJ
2015	Cr	1A5a	WOOD RESIDUE CHIPS	0,009000000	kg/TJ
2015	Cr	5C1a	INDUSTRIAL WASTE	0,000597622	kg/TJ
2015	Cr	5C1a	MUNICIPAL WASTE - unsorted	0,000600000	kg/TJ
2015	Cr	5C1a	RECOVERED FUEL (REF 3)	0,000597622	kg/TJ
2015	Cr	5C1bi	DEMOLITION WOOD	0,000901532	kg/TJ
2015	Cr	5C1bi	FOREST RESIDUE CHIPS	0,000901532	kg/TJ
2015	Cr	5C1bi	HAZARDOUS WASTE	0,000410621	kg/TJ
2015	Cr	5C1bi	HEAVY FUEL OIL (S<1%)	0,000011732	kg/TJ
2015	Cr	5C1bi	MUNICIPAL WASTE - unsorted	0,001387699	kg/TJ
2015	Cr	5C1bi	RECOVERED FUEL (REF 2)	0,000901532	kg/TJ
2015	Cr	5C1bi	RECOVERED WOOD	0,000901532	kg/TJ
2015	Cr	5C1bi	RECYCLED AND WASTE OILS	0,000011732	kg/TJ

Cu Implied emission factors in Finnish air pollutant inventory for 2015

2015	Cu	1A1a	ANIMAL-BASED FUELS	0,005035914	kg/TJ
2015	Cu	1A1a	BARK	0,008055960	kg/TJ
2015	Cu	1A1a	CHIPS FROM ROUNDWOOD	0,009736942	kg/TJ
2015	Cu	1A1a	COAL (S=1.0%)	0,001753215	kg/TJ
2015	Cu	1A1a	DEINKING WASTE	0,000518919	kg/TJ
2015	Cu	1A1a	DEMOLITION WOOD	0,005000000	kg/TJ
2015	Cu	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,051000000	kg/TJ
2015	Cu	1A1a	FOREST RESIDUE CHIPS	0,009103936	kg/TJ
2015	Cu	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000158762	kg/TJ
2015	Cu	1A1a	HEAVY FUEL OIL (S<1%)	0,001888331	kg/TJ
2015	Cu	1A1a	INDUSTRIAL WASTE	0,020874142	kg/TJ
2015	Cu	1A1a	MILLED PEAT	0,014783074	kg/TJ
2015	Cu	1A1a	MUNICIPAL WASTE - unsorted	0,002013671	kg/TJ
2015	Cu	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,004854879	kg/TJ
2015	Cu	1A1a	OTHER FOSSIL LIQUID	0,001000000	kg/TJ
2015	Cu	1A1a	OTHER FOSSIL SOLID	0,004000000	kg/TJ
2015	Cu	1A1a	OTHER NON-FOSSIL SOLID	0,004593663	kg/TJ
2015	Cu	1A1a	OTHER WOOD RESIDUE	0,008289382	kg/TJ
2015	Cu	1A1a	PEAT PELLETS AND BRIQUETTES	0,066553518	kg/TJ
2015	Cu	1A1a	RECOVERED FUEL (REF 2)	0,002861521	kg/TJ
2015	Cu	1A1a	RECOVERED WOOD	0,004397445	kg/TJ
2015	Cu	1A1a	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	Cu	1A1a	SALT TREATED WOOD	0,005000000	kg/TJ
2015	Cu	1A1a	SAWDUST AND CUTTER CHIPS	0,010908549	kg/TJ
2015	Cu	1A1a	SOD PEAT	0,081135130	kg/TJ
2015	Cu	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,016400716	kg/TJ
2015	Cu	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,015116788	kg/TJ
2015	Cu	1A1a	WOOD RESIDUE CHIPS	0,016710471	kg/TJ
2015	Cu	1A1b	HEAVY FUEL OIL (S<1%)	0,001005941	kg/TJ
2015	Cu	1A1b	OTHER HEAVY DISTILLATES	0,001000000	kg/TJ
2015	Cu	1A1b	OTHER WASTE	0,051000000	kg/TJ
2015	Cu	1A1b	PETROLEUM COKE	0,350000000	kg/TJ
2015	Cu	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,051000000	kg/TJ
2015	Cu	1A2a	COKE (S=1.0%)	0,003910169	kg/TJ
2015	Cu	1A2a	FOREST RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A2a	HEAVY FUEL OIL (S<1%)	0,002419172	kg/TJ
2015	Cu	1A2a	OTHER FOSSIL LIQUID	0,002500000	kg/TJ
2015	Cu	1A2a	OTHER FOSSIL SOLID	0,000275482	kg/TJ
2015	Cu	1A2a	WOOD RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A2b	CHIPS FROM ROUNDWOOD	0,051000000	kg/TJ
2015	Cu	1A2b	COAL (S=1.0%)	0,350000000	kg/TJ

2015	Cu	1A2b	COKE (S=1.0%)	0,350000000	kg/TJ
2015	Cu	1A2b	HEAVY FUEL OIL (S<1%)	0,002500000	kg/TJ
2015	Cu	1A2b	OTHER FOSSIL SOLID	0,350000000	kg/TJ
2015	Cu	1A2b	RECYCLED AND WASTE OILS	0,002500000	kg/TJ
2015	Cu	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,051000000	kg/TJ
2015	Cu	1A2c	COAL (S=1.0%)	0,001758361	kg/TJ
2015	Cu	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,002500000	kg/TJ
2015	Cu	1A2c	HEAVY FUEL OIL (S<1%)	0,002511695	kg/TJ
2015	Cu	1A2c	OTHER FOSSIL LIQUID	0,002500000	kg/TJ
2015	Cu	1A2c	PETROLEUM COKE	0,350000000	kg/TJ
2015	Cu	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,051000000	kg/TJ
2015	Cu	1A2d	ANIMAL-BASED FUELS	0,002250000	kg/TJ
2015	Cu	1A2d	BARK	0,005916181	kg/TJ
2015	Cu	1A2d	CHIPS FROM ROUNDWOOD	0,006895183	kg/TJ
2015	Cu	1A2d	COAL (S=1.0%)	0,001102399	kg/TJ
2015	Cu	1A2d	DEMOLITION WOOD	0,002250000	kg/TJ
2015	Cu	1A2d	FOREST RESIDUE CHIPS	0,003397808	kg/TJ
2015	Cu	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000943599	kg/TJ
2015	Cu	1A2d	HEAVY FUEL OIL (S<1%)	0,001220602	kg/TJ
2015	Cu	1A2d	INDUSTRIAL WASTE	0,002250000	kg/TJ
2015	Cu	1A2d	MILLED PEAT	0,001046714	kg/TJ
2015	Cu	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,006944440	kg/TJ
2015	Cu	1A2d	OTHER NON-FOSSIL SOLID	0,001249101	kg/TJ
2015	Cu	1A2d	OTHER WASTE	0,005000000	kg/TJ
2015	Cu	1A2d	OTHER WOOD RESIDUE	0,019043583	kg/TJ
2015	Cu	1A2d	PLASTIC WASTE	0,006368843	kg/TJ
2015	Cu	1A2d	RECOVERED FUEL (REF 2)	0,003068085	kg/TJ
2015	Cu	1A2d	RECOVERED WOOD	0,002103348	kg/TJ
2015	Cu	1A2d	RECYCLED AND WASTE OILS	0,000450000	kg/TJ
2015	Cu	1A2d	SALT TREATED WOOD	0,002250000	kg/TJ
2015	Cu	1A2d	SAWDUST AND CUTTER CHIPS	0,025335977	kg/TJ
2015	Cu	1A2d	SOD PEAT	0,137858496	kg/TJ
2015	Cu	1A2d	SULPHUR CONCENTRATE	0,002250000	kg/TJ
2015	Cu	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,018870219	kg/TJ
2015	Cu	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,051000000	kg/TJ
2015	Cu	1A2d	WOOD RESIDUE CHIPS	0,014143545	kg/TJ
2015	Cu	1A2e	BARK	0,051000000	kg/TJ
2015	Cu	1A2e	CHIPS FROM ROUNDWOOD	0,051000000	kg/TJ
2015	Cu	1A2e	COKE (S=1.0%)	0,350000000	kg/TJ
2015	Cu	1A2e	FOREST RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A2e	HEAVY FUEL OIL (S<1%)	0,002083804	kg/TJ
2015	Cu	1A2e	MILLED PEAT	0,148197943	kg/TJ
2015	Cu	1A2e	SAWDUST AND CUTTER CHIPS	0,051000000	kg/TJ
2015	Cu	1A2e	WOOD RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A2f	CHIPS FROM ROUNDWOOD	0,051000000	kg/TJ

2015	Cu	1A2f	COAL (S=1.0%)	0,313477735	kg/TJ
2015	Cu	1A2f	COKE (S=1.0%)	0,313860200	kg/TJ
2015	Cu	1A2f	FOREST RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,002500000	kg/TJ
2015	Cu	1A2f	HEAVY FUEL OIL (S<1%)	0,002150394	kg/TJ
2015	Cu	1A2f	PETROLEUM COKE	0,093136925	kg/TJ
2015	Cu	1A2f	PLASTIC WASTE	0,005000000	kg/TJ
2015	Cu	1A2f	RECOVERED FUEL (REF 2)	0,031311557	kg/TJ
2015	Cu	1A2f	RECOVERED WOOD	0,051000000	kg/TJ
2015	Cu	1A2f	RECYCLED AND WASTE OILS	0,001772660	kg/TJ
2015	Cu	1A2f	RUBBER WASTE	0,005000000	kg/TJ
2015	Cu	1A2f	SAWDUST AND CUTTER CHIPS	0,051000000	kg/TJ
2015	Cu	1A2gvii	DIESEL OIL (S=001%)	0,039812646	kg/TJ
2015	Cu	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,040912158	kg/TJ
2015	Cu	1A2gviii	ANIMAL-BASED FUELS	0,051000000	kg/TJ
2015	Cu	1A2gviii	BARK	0,005000000	kg/TJ
2015	Cu	1A2gviii	CHIPS FROM ROUNDWOOD	0,005000000	kg/TJ
2015	Cu	1A2gviii	COAL (S=1.0%)	0,012080353	kg/TJ
2015	Cu	1A2gviii	FOREST RESIDUE CHIPS	0,008344338	kg/TJ
2015	Cu	1A2gviii	FOREST WOODFUEL	0,051000000	kg/TJ
2015	Cu	1A2gviii	HEAVY FUEL OIL (S<1%)	0,002486157	kg/TJ
2015	Cu	1A2gviii	MILLED PEAT	0,001815897	kg/TJ
2015	Cu	1A2gviii	OTHER NON-FOSSIL SOLID	0,005453651	kg/TJ
2015	Cu	1A2gviii	OTHER PETROLEUM PRODUCTS	0,002500000	kg/TJ
2015	Cu	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,002500000	kg/TJ
2015	Cu	1A2gviii	RECOVERED FUEL (REF 1)	0,051000000	kg/TJ
2015	Cu	1A2gviii	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	Cu	1A2gviii	SAWDUST AND CUTTER CHIPS	0,005000000	kg/TJ
2015	Cu	1A2gviii	SOD PEAT	0,219403218	kg/TJ
2015	Cu	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005205730	kg/TJ
2015	Cu	1A2gviii	WOOD RESIDUE CHIPS	0,006205428	kg/TJ
2015	Cu	1A3bi	DIESEL OIL (S=001%)	0,000495327	kg/TJ
2015	Cu	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000976744	kg/TJ
2015	Cu	1A3bi	NATURAL GAS	0,000749109	kg/TJ
2015	Cu	1A3bii	DIESEL OIL (S=001%)	0,000495327	kg/TJ
2015	Cu	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000976744	kg/TJ
2015	Cu	1A3bii	NATURAL GAS	0,000749109	kg/TJ
2015	Cu	1A3biii	DIESEL OIL (S=001%)	0,000495327	kg/TJ
2015	Cu	1A3biv	DIESEL OIL (S=001%)	0,000495327	kg/TJ
2015	Cu	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000976744	kg/TJ
2015	Cu	1A3c	GASOIL (FOR NON-ROAD USE)	0,039906103	kg/TJ
2015	Cu	1A3dii	GASOIL (FOR NON-ROAD USE)	0,020599728	kg/TJ
2015	Cu	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,030841541	kg/TJ
2015	Cu	1A4ai	CHIPS FROM ROUNDWOOD	0,010249128	kg/TJ
2015	Cu	1A4ai	FOREST RESIDUE CHIPS	0,002250000	kg/TJ

2015	Cu	1A4ai	FOREST WOODFUEL	0,006000000	kg/TJ
2015	Cu	1A4ai	HEAVY FUEL OIL (S<1%)	0,002387277	kg/TJ
2015	Cu	1A4ai	MILLED PEAT	0,220000000	kg/TJ
2015	Cu	1A4ai	SAWDUST AND CUTTER CHIPS	0,007207802	kg/TJ
2015	Cu	1A4ai	SOD PEAT	0,220000000	kg/TJ
2015	Cu	1A4ai	WOOD RESIDUE CHIPS	0,051000000	kg/TJ
2015	Cu	1A4aii	DIESEL OIL (S=001%)	0,039812646	kg/TJ
2015	Cu	1A4aii	LIQUID GAS	0,036956522	kg/TJ
2015	Cu	1A4aii	MOTOR GASOLINE (S=0.001%)	0,040912158	kg/TJ
2015	Cu	1A4bi	COAL (S=1.0%)	0,190909091	kg/TJ
2015	Cu	1A4bi	FOREST WOODFUEL	0,006000000	kg/TJ
2015	Cu	1A4bi	HEAVY FUEL OIL (S<1%)	0,002500000	kg/TJ
2015	Cu	1A4bi	SOD PEAT	0,220000000	kg/TJ
2015	Cu	1A4bii	DIESEL OIL (S=001%)	0,039812646	kg/TJ
2015	Cu	1A4bii	MOTOR GASOLINE (S=0.001%)	0,040912158	kg/TJ
2015	Cu	1A4ci	FOREST WOODFUEL	0,006000000	kg/TJ
2015	Cu	1A4ci	HEAVY FUEL OIL (S<1%)	0,002500000	kg/TJ
2015	Cu	1A4ci	SOD PEAT	0,220000000	kg/TJ
2015	Cu	1A4cii	DIESEL OIL (S=001%)	0,039812646	kg/TJ
2015	Cu	1A4cii	MOTOR GASOLINE (S=0.001%)	0,040912158	kg/TJ
2015	Cu	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,020608899	kg/TJ
2015	Cu	1A5a	BARK	0,005000000	kg/TJ
2015	Cu	1A5a	FOREST RESIDUE CHIPS	0,010388629	kg/TJ
2015	Cu	1A5a	HEAVY FUEL OIL (S<1%)	0,001000000	kg/TJ
2015	Cu	1A5a	LIGHT FUEL OIL (S=0.0915%)	24,102888393	kg/TJ
2015	Cu	1A5a	SOD PEAT	0,013162802	kg/TJ
2015	Cu	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,005000000	kg/TJ
2015	Cu	1A5a	WOOD RESIDUE CHIPS	0,012750000	kg/TJ
2015	Cu	5C1a	INDUSTRIAL WASTE	0,002254189	kg/TJ
2015	Cu	5C1a	MUNICIPAL WASTE - unsorted	0,002250000	kg/TJ
2015	Cu	5C1a	RECOVERED FUEL (REF 3)	0,002254189	kg/TJ
2015	Cu	5C1bi	DEMOLITION WOOD	0,004765243	kg/TJ
2015	Cu	5C1bi	FOREST RESIDUE CHIPS	0,004765243	kg/TJ
2015	Cu	5C1bi	HAZARDOUS WASTE	0,001222958	kg/TJ
2015	Cu	5C1bi	HEAVY FUEL OIL (S<1%)	0,000059949	kg/TJ
2015	Cu	5C1bi	MUNICIPAL WASTE - unsorted	0,003759967	kg/TJ
2015	Cu	5C1bi	RECOVERED FUEL (REF 2)	0,004765243	kg/TJ
2015	Cu	5C1bi	RECOVERED WOOD	0,004765243	kg/TJ
2015	Cu	5C1bi	RECYCLED AND WASTE OILS	0,000059949	kg/TJ

Ni Implied emission factors in Finnish air pollutant inventory for 2015

2015	Ni	1A1a	ANIMAL-BASED FUELS	0,002021616	kg/TJ
2015	Ni	1A1a	BARK	0,003756755	kg/TJ
2015	Ni	1A1a	CHIPS FROM ROUNDWOOD	0,004983886	kg/TJ
2015	Ni	1A1a	COAL (S=1.0%)	0,002263070	kg/TJ
2015	Ni	1A1a	DEINKING WASTE	0,000689758	kg/TJ
2015	Ni	1A1a	DEMOLITION WOOD	0,002000000	kg/TJ
2015	Ni	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,030000000	kg/TJ
2015	Ni	1A1a	FOREST RESIDUE CHIPS	0,004610878	kg/TJ
2015	Ni	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,001279360	kg/TJ
2015	Ni	1A1a	HEAVY FUEL OIL (S<1%)	0,227780235	kg/TJ
2015	Ni	1A1a	INDUSTRIAL WASTE	0,011766383	kg/TJ
2015	Ni	1A1a	MILLED PEAT	0,009121284	kg/TJ
2015	Ni	1A1a	MUNICIPAL WASTE - unsorted	0,000459600	kg/TJ
2015	Ni	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,001957563	kg/TJ
2015	Ni	1A1a	OTHER FOSSIL LIQUID	0,004000000	kg/TJ
2015	Ni	1A1a	OTHER FOSSIL SOLID	0,004000000	kg/TJ
2015	Ni	1A1a	OTHER NON-FOSSIL SOLID	0,002196790	kg/TJ
2015	Ni	1A1a	OTHER WOOD RESIDUE	0,004014553	kg/TJ
2015	Ni	1A1a	PEAT PELLETS AND BRIQUETTES	0,042129405	kg/TJ
2015	Ni	1A1a	RECOVERED FUEL (REF 2)	0,000810240	kg/TJ
2015	Ni	1A1a	RECOVERED WOOD	0,002167380	kg/TJ
2015	Ni	1A1a	RECYCLED AND WASTE OILS	0,003438411	kg/TJ
2015	Ni	1A1a	SALT TREATED WOOD	0,001031788	kg/TJ
2015	Ni	1A1a	SAWDUST AND CUTTER CHIPS	0,005831412	kg/TJ
2015	Ni	1A1a	SOD PEAT	0,051837857	kg/TJ
2015	Ni	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,011153194	kg/TJ
2015	Ni	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,008244152	kg/TJ
2015	Ni	1A1a	WOOD RESIDUE CHIPS	0,009241763	kg/TJ
2015	Ni	1A1b	HEAVY FUEL OIL (S<1%)	0,669466589	kg/TJ
2015	Ni	1A1b	OTHER HEAVY DISTILLATES	0,670935760	kg/TJ
2015	Ni	1A1b	OTHER WASTE	0,030000000	kg/TJ
2015	Ni	1A1b	PETROLEUM COKE	0,158590069	kg/TJ
2015	Ni	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,030000000	kg/TJ
2015	Ni	1A2a	COKE (S=1.0%)	0,013899619	kg/TJ
2015	Ni	1A2a	FOREST RESIDUE CHIPS	0,030000000	kg/TJ
2015	Ni	1A2a	HEAVY FUEL OIL (S<1%)	0,281282865	kg/TJ
2015	Ni	1A2a	OTHER FOSSIL LIQUID	0,300000000	kg/TJ
2015	Ni	1A2a	OTHER FOSSIL SOLID	0,004000000	kg/TJ
2015	Ni	1A2a	WOOD RESIDUE CHIPS	0,030000000	kg/TJ
2015	Ni	1A2b	CHIPS FROM ROUNDWOOD	0,030000000	kg/TJ
2015	Ni	1A2b	COAL (S=1.0%)	0,781894551	kg/TJ

2015	Ni	1A2b	COKE (S=1.0%)	0,158848971	kg/TJ
2015	Ni	1A2b	HEAVY FUEL OIL (S<1%)	0,119695555	kg/TJ
2015	Ni	1A2b	OTHER FOSSIL SOLID	0,158848971	kg/TJ
2015	Ni	1A2b	RECYCLED AND WASTE OILS	0,059568364	kg/TJ
2015	Ni	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,030000000	kg/TJ
2015	Ni	1A2c	COAL (S=1.0%)	0,001039032	kg/TJ
2015	Ni	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,300000000	kg/TJ
2015	Ni	1A2c	HEAVY FUEL OIL (S<1%)	0,272296687	kg/TJ
2015	Ni	1A2c	OTHER FOSSIL LIQUID	0,300000000	kg/TJ
2015	Ni	1A2c	PETROLEUM COKE	0,800000000	kg/TJ
2015	Ni	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,030000000	kg/TJ
2015	Ni	1A2d	ANIMAL-BASED FUELS	0,000500000	kg/TJ
2015	Ni	1A2d	BARK	0,002784947	kg/TJ
2015	Ni	1A2d	BLACK LIQUOR	0,000192178	kg/TJ
2015	Ni	1A2d	CHIPS FROM ROUNDWOOD	0,003305690	kg/TJ
2015	Ni	1A2d	COAL (S=1.0%)	0,000990312	kg/TJ
2015	Ni	1A2d	DEMOLITION WOOD	0,000500000	kg/TJ
2015	Ni	1A2d	FOREST RESIDUE CHIPS	0,001346443	kg/TJ
2015	Ni	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,003259146	kg/TJ
2015	Ni	1A2d	HEAVY FUEL OIL (S<1%)	0,049477843	kg/TJ
2015	Ni	1A2d	INDUSTRIAL WASTE	0,000500000	kg/TJ
2015	Ni	1A2d	MILLED PEAT	0,000587818	kg/TJ
2015	Ni	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,002701548	kg/TJ
2015	Ni	1A2d	OTHER NON-FOSSIL SOLID	0,000500000	kg/TJ
2015	Ni	1A2d	OTHER WASTE	0,002000000	kg/TJ
2015	Ni	1A2d	OTHER WOOD RESIDUE	0,010549376	kg/TJ
2015	Ni	1A2d	PLASTIC WASTE	0,001802956	kg/TJ
2015	Ni	1A2d	RECOVERED FUEL (REF 2)	0,000828612	kg/TJ
2015	Ni	1A2d	RECOVERED WOOD	0,000733236	kg/TJ
2015	Ni	1A2d	RECYCLED AND WASTE OILS	0,001000000	kg/TJ
2015	Ni	1A2d	SALT TREATED WOOD	0,000500000	kg/TJ
2015	Ni	1A2d	SAWDUST AND CUTTER CHIPS	0,014603278	kg/TJ
2015	Ni	1A2d	SOD PEAT	0,087741308	kg/TJ
2015	Ni	1A2d	SULPHUR CONCENTRATE	0,000500000	kg/TJ
2015	Ni	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,010493864	kg/TJ
2015	Ni	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,030000000	kg/TJ
2015	Ni	1A2d	WOOD RESIDUE CHIPS	0,007903604	kg/TJ
2015	Ni	1A2e	BARK	0,030000000	kg/TJ
2015	Ni	1A2e	CHIPS FROM ROUNDWOOD	0,030000000	kg/TJ
2015	Ni	1A2e	COKE (S=1.0%)	0,800000000	kg/TJ
2015	Ni	1A2e	FOREST RESIDUE CHIPS	0,030000000	kg/TJ
2015	Ni	1A2e	HEAVY FUEL OIL (S<1%)	0,257497590	kg/TJ
2015	Ni	1A2e	MILLED PEAT	0,094298828	kg/TJ
2015	Ni	1A2e	SAWDUST AND CUTTER CHIPS	0,030000000	kg/TJ
2015	Ni	1A2e	WOOD RESIDUE CHIPS	0,030000000	kg/TJ

2015	Ni	1A2f	CHIPS FROM ROUNDWOOD	0,030000000	kg/TJ
2015	Ni	1A2f	COAL (S=1.0%)	0,715977680	kg/TJ
2015	Ni	1A2f	COKE (S=1.0%)	0,518432357	kg/TJ
2015	Ni	1A2f	FOREST RESIDUE CHIPS	0,030000000	kg/TJ
2015	Ni	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,300000000	kg/TJ
2015	Ni	1A2f	HEAVY FUEL OIL (S<1%)	0,231011016	kg/TJ
2015	Ni	1A2f	PETROLEUM COKE	0,209066452	kg/TJ
2015	Ni	1A2f	PLASTIC WASTE	0,002000000	kg/TJ
2015	Ni	1A2f	RECOVERED FUEL (REF 2)	0,018015730	kg/TJ
2015	Ni	1A2f	RECOVERED WOOD	0,030000000	kg/TJ
2015	Ni	1A2f	RECYCLED AND WASTE OILS	0,156471621	kg/TJ
2015	Ni	1A2f	RUBBER WASTE	0,002000000	kg/TJ
2015	Ni	1A2f	SAWDUST AND CUTTER CHIPS	0,030000000	kg/TJ
2015	Ni	1A2gvii	DIESEL OIL (S=001%)	0,001639344	kg/TJ
2015	Ni	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,001684618	kg/TJ
2015	Ni	1A2gviii	ANIMAL-BASED FUELS	0,030000000	kg/TJ
2015	Ni	1A2gviii	BARK	0,002000000	kg/TJ
2015	Ni	1A2gviii	CHIPS FROM ROUNDWOOD	0,002000000	kg/TJ
2015	Ni	1A2gviii	COAL (S=1.0%)	0,022589483	kg/TJ
2015	Ni	1A2gviii	FOREST RESIDUE CHIPS	0,005133952	kg/TJ
2015	Ni	1A2gviii	FOREST WOODFUEL	0,030000000	kg/TJ
2015	Ni	1A2gviii	HEAVY FUEL OIL (S<1%)	0,298356322	kg/TJ
2015	Ni	1A2gviii	MILLED PEAT	0,001136480	kg/TJ
2015	Ni	1A2gviii	OTHER NON-FOSSIL SOLID	0,002365387	kg/TJ
2015	Ni	1A2gviii	OTHER PETROLEUM PRODUCTS	0,300000000	kg/TJ
2015	Ni	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,300000000	kg/TJ
2015	Ni	1A2gviii	RECOVERED FUEL (REF 1)	0,030000000	kg/TJ
2015	Ni	1A2gviii	RECYCLED AND WASTE OILS	0,004000000	kg/TJ
2015	Ni	1A2gviii	SAWDUST AND CUTTER CHIPS	0,002000000	kg/TJ
2015	Ni	1A2gviii	SOD PEAT	0,139621580	kg/TJ
2015	Ni	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,002125227	kg/TJ
2015	Ni	1A2gviii	WOOD RESIDUE CHIPS	0,002737657	kg/TJ
2015	Ni	1A3bi	DIESEL OIL (S=001%)	0,000205607	kg/TJ
2015	Ni	1A3bi	MOTOR GASOLINE (S=0.001%)	0,000302326	kg/TJ
2015	Ni	1A3bi	NATURAL GAS	0,000214892	kg/TJ
2015	Ni	1A3bii	DIESEL OIL (S=001%)	0,000205607	kg/TJ
2015	Ni	1A3bii	MOTOR GASOLINE (S=0.001%)	0,000302326	kg/TJ
2015	Ni	1A3bii	NATURAL GAS	0,000214892	kg/TJ
2015	Ni	1A3biii	DIESEL OIL (S=001%)	0,000205607	kg/TJ
2015	Ni	1A3biv	DIESEL OIL (S=001%)	0,000205607	kg/TJ
2015	Ni	1A3biv	MOTOR GASOLINE (S=0.001%)	0,000302326	kg/TJ
2015	Ni	1A3c	GASOIL (FOR NON-ROAD USE)	0,001643192	kg/TJ
2015	Ni	1A3dii	GASOIL (FOR NON-ROAD USE)	0,023408782	kg/TJ
2015	Ni	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,789543446	kg/TJ
2015	Ni	1A4ai	CHIPS FROM ROUNDWOOD	0,005340498	kg/TJ

2015	Ni	1A4ai	FOREST RESIDUE CHIPS	0,000500000	kg/TJ
2015	Ni	1A4ai	FOREST WOODFUEL	0,030000000	kg/TJ
2015	Ni	1A4ai	HEAVY FUEL OIL (S<1%)	0,285528610	kg/TJ
2015	Ni	1A4ai	MILLED PEAT	0,140000000	kg/TJ
2015	Ni	1A4ai	SAWDUST AND CUTTER CHIPS	0,003500106	kg/TJ
2015	Ni	1A4ai	SOD PEAT	0,140000000	kg/TJ
2015	Ni	1A4ai	WOOD RESIDUE CHIPS	0,030000000	kg/TJ
2015	Ni	1A4aii	DIESEL OIL (S=001%)	0,001639344	kg/TJ
2015	Ni	1A4aii	LIQUID GAS	0,001521739	kg/TJ
2015	Ni	1A4aii	MOTOR GASOLINE (S=0.001%)	0,001684618	kg/TJ
2015	Ni	1A4bi	COAL (S=1.0%)	0,436363636	kg/TJ
2015	Ni	1A4bi	FOREST WOODFUEL	0,030000000	kg/TJ
2015	Ni	1A4bi	HEAVY FUEL OIL (S<1%)	0,323288750	kg/TJ
2015	Ni	1A4bi	SOD PEAT	0,140000000	kg/TJ
2015	Ni	1A4bii	DIESEL OIL (S=001%)	0,001639344	kg/TJ
2015	Ni	1A4bii	MOTOR GASOLINE (S=0.001%)	0,001684618	kg/TJ
2015	Ni	1A4ci	FOREST WOODFUEL	0,030000000	kg/TJ
2015	Ni	1A4ci	HEAVY FUEL OIL (S<1%)	0,300000000	kg/TJ
2015	Ni	1A4ci	SOD PEAT	0,140000000	kg/TJ
2015	Ni	1A4cii	DIESEL OIL (S=001%)	0,001639344	kg/TJ
2015	Ni	1A4cii	MOTOR GASOLINE (S=0.001%)	0,001684618	kg/TJ
2015	Ni	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,023419204	kg/TJ
2015	Ni	1A5a	BARK	0,002000000	kg/TJ
2015	Ni	1A5a	FOREST RESIDUE CHIPS	0,006519496	kg/TJ
2015	Ni	1A5a	HEAVY FUEL OIL (S<1%)	0,004000000	kg/TJ
2015	Ni	1A5a	LIGHT FUEL OIL (S=0.0915%)	21,939358483	kg/TJ
2015	Ni	1A5a	SOD PEAT	0,008537198	kg/TJ
2015	Ni	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,002000000	kg/TJ
2015	Ni	1A5a	WOOD RESIDUE CHIPS	0,008500000	kg/TJ
2015	Ni	5C1a	INDUSTRIAL WASTE	0,000503261	kg/TJ
2015	Ni	5C1a	MUNICIPAL WASTE - unsorted	0,000500000	kg/TJ
2015	Ni	5C1a	RECOVERED FUEL (REF 3)	0,000503261	kg/TJ
2015	Ni	5C1bi	DEMOLITION WOOD	0,007469841	kg/TJ
2015	Ni	5C1bi	FOREST RESIDUE CHIPS	0,007469841	kg/TJ
2015	Ni	5C1bi	HAZARDOUS WASTE	0,000105263	kg/TJ
2015	Ni	5C1bi	HEAVY FUEL OIL (S<1%)	0,001052632	kg/TJ
2015	Ni	5C1bi	MUNICIPAL WASTE - unsorted	0,001197763	kg/TJ
2015	Ni	5C1bi	RECOVERED FUEL (REF 2)	0,007469841	kg/TJ
2015	Ni	5C1bi	RECOVERED WOOD	0,007469841	kg/TJ
2015	Ni	5C1bi	RECYCLED AND WASTE OILS	0,001052632	kg/TJ

Zn Implied emission factors in Finnish air pollutant inventory for 2015

2015	Zn	1A1a	ANIMAL-BASED FUELS	0,054184844	kg/TJ
2015	Zn	1A1a	BARK	0,100032145	kg/TJ
2015	Zn	1A1a	CHIPS FROM ROUNDWOOD	0,123487828	kg/TJ
2015	Zn	1A1a	COAL (S=1.0%)	0,019596074	kg/TJ
2015	Zn	1A1a	DEINKING WASTE	0,001292038	kg/TJ
2015	Zn	1A1a	DEMOLITION WOOD	0,054000000	kg/TJ
2015	Zn	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,700000000	kg/TJ
2015	Zn	1A1a	FOREST RESIDUE CHIPS	0,136092073	kg/TJ
2015	Zn	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000912503	kg/TJ
2015	Zn	1A1a	HEAVY FUEL OIL (S<1%)	0,047440811	kg/TJ
2015	Zn	1A1a	INDUSTRIAL WASTE	0,272349294	kg/TJ
2015	Zn	1A1a	MILLED PEAT	0,036217073	kg/TJ
2015	Zn	1A1a	MUNICIPAL WASTE - unsorted	0,200087636	kg/TJ
2015	Zn	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,052293027	kg/TJ
2015	Zn	1A1a	OTHER FOSSIL LIQUID	0,006000000	kg/TJ
2015	Zn	1A1a	OTHER FOSSIL SOLID	0,084000000	kg/TJ
2015	Zn	1A1a	OTHER NON-FOSSIL SOLID	0,121133219	kg/TJ
2015	Zn	1A1a	OTHER WOOD RESIDUE	0,100464099	kg/TJ
2015	Zn	1A1a	PEAT PELLETS AND BRIQUETTES	0,103834603	kg/TJ
2015	Zn	1A1a	RECOVERED FUEL (REF 2)	0,431114992	kg/TJ
2015	Zn	1A1a	RECOVERED WOOD	0,346090100	kg/TJ
2015	Zn	1A1a	RECYCLED AND WASTE OILS	0,004481257	kg/TJ
2015	Zn	1A1a	SALT TREATED WOOD	0,006868735	kg/TJ
2015	Zn	1A1a	SAWDUST AND CUTTER CHIPS	0,221575166	kg/TJ
2015	Zn	1A1a	SOD PEAT	0,121340570	kg/TJ
2015	Zn	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,211357355	kg/TJ
2015	Zn	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,195501855	kg/TJ
2015	Zn	1A1a	WOOD RESIDUE CHIPS	0,231156522	kg/TJ
2015	Zn	1A1b	HEAVY FUEL OIL (S<1%)	0,006023764	kg/TJ
2015	Zn	1A1b	OTHER HEAVY DISTILLATES	0,006000000	kg/TJ
2015	Zn	1A1b	OTHER WASTE	0,700000000	kg/TJ
2015	Zn	1A1b	PETROLEUM COKE	1,500000000	kg/TJ
2015	Zn	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,700000000	kg/TJ
2015	Zn	1A2a	COKE (S=1.0%)	0,024199037	kg/TJ
2015	Zn	1A2a	FOREST RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A2a	HEAVY FUEL OIL (S<1%)	0,015295716	kg/TJ
2015	Zn	1A2a	OTHER FOSSIL LIQUID	0,012000000	kg/TJ
2015	Zn	1A2a	OTHER FOSSIL SOLID	0,012121212	kg/TJ
2015	Zn	1A2a	WOOD RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A2b	CHIPS FROM ROUNDWOOD	0,700000000	kg/TJ
2015	Zn	1A2b	COAL (S=1.0%)	1,469551273	kg/TJ

2015	Zn	1A2b	COKE (S=1.0%)	0,421748208	kg/TJ
2015	Zn	1A2b	HEAVY FUEL OIL (S<1%)	0,005531311	kg/TJ
2015	Zn	1A2b	OTHER FOSSIL SOLID	0,421748208	kg/TJ
2015	Zn	1A2b	RECYCLED AND WASTE OILS	0,003373986	kg/TJ
2015	Zn	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,700000000	kg/TJ
2015	Zn	1A2c	COAL (S=1.0%)	0,012148676	kg/TJ
2015	Zn	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,012000000	kg/TJ
2015	Zn	1A2c	HEAVY FUEL OIL (S<1%)	0,012032438	kg/TJ
2015	Zn	1A2c	OTHER FOSSIL LIQUID	0,012000000	kg/TJ
2015	Zn	1A2c	PETROLEUM COKE	1,500000000	kg/TJ
2015	Zn	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,700000000	kg/TJ
2015	Zn	1A2d	ANIMAL-BASED FUELS	0,007714286	kg/TJ
2015	Zn	1A2d	BARK	0,061963732	kg/TJ
2015	Zn	1A2d	CHIPS FROM ROUNDWOOD	0,087731284	kg/TJ
2015	Zn	1A2d	COAL (S=1.0%)	0,011926437	kg/TJ
2015	Zn	1A2d	DEMOLITION WOOD	0,007714286	kg/TJ
2015	Zn	1A2d	FOREST RESIDUE CHIPS	0,043290739	kg/TJ
2015	Zn	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000375218	kg/TJ
2015	Zn	1A2d	HEAVY FUEL OIL (S<1%)	0,005057076	kg/TJ
2015	Zn	1A2d	INDUSTRIAL WASTE	0,007714286	kg/TJ
2015	Zn	1A2d	MILLED PEAT	0,004255868	kg/TJ
2015	Zn	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,077145644	kg/TJ
2015	Zn	1A2d	OTHER NON-FOSSIL SOLID	0,007714286	kg/TJ
2015	Zn	1A2d	OTHER WASTE	0,054000000	kg/TJ
2015	Zn	1A2d	OTHER WOOD RESIDUE	0,251171879	kg/TJ
2015	Zn	1A2d	PLASTIC WASTE	0,053808190	kg/TJ
2015	Zn	1A2d	RECOVERED FUEL (REF 2)	0,019769757	kg/TJ
2015	Zn	1A2d	RECOVERED WOOD	0,030171072	kg/TJ
2015	Zn	1A2d	RECYCLED AND WASTE OILS	0,000857143	kg/TJ
2015	Zn	1A2d	SALT TREATED WOOD	0,007714286	kg/TJ
2015	Zn	1A2d	SAWDUST AND CUTTER CHIPS	0,339158522	kg/TJ
2015	Zn	1A2d	SOD PEAT	0,208939174	kg/TJ
2015	Zn	1A2d	SULPHUR CONCENTRATE	0,007714286	kg/TJ
2015	Zn	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,243979455	kg/TJ
2015	Zn	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,700000000	kg/TJ
2015	Zn	1A2d	WOOD RESIDUE CHIPS	0,184765467	kg/TJ
2015	Zn	1A2e	BARK	0,700000000	kg/TJ
2015	Zn	1A2e	CHIPS FROM ROUNDWOOD	0,700000000	kg/TJ
2015	Zn	1A2e	COKE (S=1.0%)	1,500000000	kg/TJ
2015	Zn	1A2e	FOREST RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A2e	HEAVY FUEL OIL (S<1%)	0,010335215	kg/TJ
2015	Zn	1A2e	MILLED PEAT	0,224283208	kg/TJ
2015	Zn	1A2e	SAWDUST AND CUTTER CHIPS	0,700000000	kg/TJ
2015	Zn	1A2e	WOOD RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A2f	CHIPS FROM ROUNDWOOD	0,700000000	kg/TJ

2015	Zn	1A2f	COAL (S=1.0%)	1,350533159	kg/TJ
2015	Zn	1A2f	COKE (S=1.0%)	1,352098393	kg/TJ
2015	Zn	1A2f	FOREST RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,012000000	kg/TJ
2015	Zn	1A2f	HEAVY FUEL OIL (S<1%)	0,010601575	kg/TJ
2015	Zn	1A2f	PETROLEUM COKE	0,448791578	kg/TJ
2015	Zn	1A2f	PLASTIC WASTE	0,054000000	kg/TJ
2015	Zn	1A2f	RECOVERED FUEL (REF 2)	0,423505775	kg/TJ
2015	Zn	1A2f	RECOVERED WOOD	0,700000000	kg/TJ
2015	Zn	1A2f	RECYCLED AND WASTE OILS	0,009090641	kg/TJ
2015	Zn	1A2f	RUBBER WASTE	0,054000000	kg/TJ
2015	Zn	1A2f	SAWDUST AND CUTTER CHIPS	0,700000000	kg/TJ
2015	Zn	1A2gvii	DIESEL OIL (S=001%)	0,023419204	kg/TJ
2015	Zn	1A2gvii	MOTOR GASOLINE (S=0.001%)	0,024065975	kg/TJ
2015	Zn	1A2gviii	ANIMAL-BASED FUELS	0,700000000	kg/TJ
2015	Zn	1A2gviii	BARK	0,054000000	kg/TJ
2015	Zn	1A2gviii	CHIPS FROM ROUNDWOOD	0,054000000	kg/TJ
2015	Zn	1A2gviii	COAL (S=1.0%)	0,117068729	kg/TJ
2015	Zn	1A2gviii	FOREST RESIDUE CHIPS	0,104847959	kg/TJ
2015	Zn	1A2gviii	FOREST WOODFUEL	0,700000000	kg/TJ
2015	Zn	1A2gviii	HEAVY FUEL OIL (S<1%)	0,011944628	kg/TJ
2015	Zn	1A2gviii	MILLED PEAT	0,008717667	kg/TJ
2015	Zn	1A2gviii	OTHER NON-FOSSIL SOLID	0,060979814	kg/TJ
2015	Zn	1A2gviii	OTHER PETROLEUM PRODUCTS	0,012000000	kg/TJ
2015	Zn	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,012000000	kg/TJ
2015	Zn	1A2gviii	RECOVERED FUEL (REF 1)	0,700000000	kg/TJ
2015	Zn	1A2gviii	RECYCLED AND WASTE OILS	0,006000000	kg/TJ
2015	Zn	1A2gviii	SAWDUST AND CUTTER CHIPS	0,054000000	kg/TJ
2015	Zn	1A2gviii	SOD PEAT	0,329114054	kg/TJ
2015	Zn	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,056889165	kg/TJ
2015	Zn	1A2gviii	WOOD RESIDUE CHIPS	0,054000000	kg/TJ
2015	Zn	1A3bi	DIESEL OIL (S=001%)	0,040607477	kg/TJ
2015	Zn	1A3bi	MOTOR GASOLINE (S=0.001%)	0,050302326	kg/TJ
2015	Zn	1A3bi	NATURAL GAS	0,042777527	kg/TJ
2015	Zn	1A3bii	DIESEL OIL (S=001%)	0,040607477	kg/TJ
2015	Zn	1A3bii	MOTOR GASOLINE (S=0.001%)	0,050302326	kg/TJ
2015	Zn	1A3bii	NATURAL GAS	0,042777527	kg/TJ
2015	Zn	1A3biii	DIESEL OIL (S=001%)	0,040607477	kg/TJ
2015	Zn	1A3biv	DIESEL OIL (S=001%)	0,040607477	kg/TJ
2015	Zn	1A3biv	MOTOR GASOLINE (S=0.001%)	0,050302326	kg/TJ
2015	Zn	1A3c	GASOIL (FOR NON-ROAD USE)	0,023474178	kg/TJ
2015	Zn	1A3dii	GASOIL (FOR NON-ROAD USE)	0,028090539	kg/TJ
2015	Zn	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,029607879	kg/TJ
2015	Zn	1A4ai	CHIPS FROM ROUNDWOOD	0,121307767	kg/TJ
2015	Zn	1A4ai	FOREST RESIDUE CHIPS	0,007714286	kg/TJ

2015	Zn	1A4ai	FOREST WOODFUEL	0,700000000	kg/TJ
2015	Zn	1A4ai	HEAVY FUEL OIL (S<1%)	0,011425236	kg/TJ
2015	Zn	1A4ai	MILLED PEAT	0,330000000	kg/TJ
2015	Zn	1A4ai	SAWDUST AND CUTTER CHIPS	0,078118706	kg/TJ
2015	Zn	1A4ai	SOD PEAT	0,330000000	kg/TJ
2015	Zn	1A4ai	WOOD RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	1A4aii	DIESEL OIL (S=001%)	0,023419204	kg/TJ
2015	Zn	1A4aii	LIQUID GAS	0,021739130	kg/TJ
2015	Zn	1A4aii	MOTOR GASOLINE (S=0.001%)	0,024065975	kg/TJ
2015	Zn	1A4bi	COAL (S=1.0%)	0,818181818	kg/TJ
2015	Zn	1A4bi	FOREST WOODFUEL	0,700000000	kg/TJ
2015	Zn	1A4bi	HEAVY FUEL OIL (S<1%)	0,012000000	kg/TJ
2015	Zn	1A4bi	SOD PEAT	0,330000000	kg/TJ
2015	Zn	1A4bii	DIESEL OIL (S=001%)	0,023419204	kg/TJ
2015	Zn	1A4bii	MOTOR GASOLINE (S=0.001%)	0,024065975	kg/TJ
2015	Zn	1A4ci	FOREST WOODFUEL	0,700000000	kg/TJ
2015	Zn	1A4ci	HEAVY FUEL OIL (S<1%)	0,012000000	kg/TJ
2015	Zn	1A4ci	SOD PEAT	0,330000000	kg/TJ
2015	Zn	1A4cii	DIESEL OIL (S=001%)	0,023419204	kg/TJ
2015	Zn	1A4cii	MOTOR GASOLINE (S=0.001%)	0,024065975	kg/TJ
2015	Zn	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,028103044	kg/TJ
2015	Zn	1A5a	BARK	0,054000000	kg/TJ
2015	Zn	1A5a	FOREST RESIDUE CHIPS	0,138132150	kg/TJ
2015	Zn	1A5a	HEAVY FUEL OIL (S<1%)	0,006000000	kg/TJ
2015	Zn	1A5a	LIGHT FUEL OIL (S=0.0915%)	29,008729009	kg/TJ
2015	Zn	1A5a	SOD PEAT	0,024502415	kg/TJ
2015	Zn	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,054000000	kg/TJ
2015	Zn	1A5a	WOOD RESIDUE CHIPS	0,175000000	kg/TJ
2015	Zn	5C1a	INDUSTRIAL WASTE	0,007716664	kg/TJ
2015	Zn	5C1a	MUNICIPAL WASTE - unsorted	0,007714286	kg/TJ
2015	Zn	5C1a	RECOVERED FUEL (REF 3)	0,007716664	kg/TJ
2015	Zn	5C1bi	DEMOLITION WOOD	0,700000000	kg/TJ
2015	Zn	5C1bi	FOREST RESIDUE CHIPS	0,700000000	kg/TJ
2015	Zn	5C1bi	HAZARDOUS WASTE	0,700000000	kg/TJ
2015	Zn	5C1bi	HEAVY FUEL OIL (S<1%)	0,012000000	kg/TJ
2015	Zn	5C1bi	MUNICIPAL WASTE - unsorted	0,700000000	kg/TJ
2015	Zn	5C1bi	RECOVERED FUEL (REF 2)	0,700000000	kg/TJ
2015	Zn	5C1bi	RECOVERED WOOD	0,700000000	kg/TJ
2015	Zn	5C1bi	RECYCLED AND WASTE OILS	0,012000000	kg/TJ

PCDD/F Implied emission factors in Finnish air pollutant inventory for 2015

2015	PCDD/F	1A1a	ANIMAL-BASED FUELS	0,000020302	g/TJ
2015	PCDD/F	1A1a	BARK	0,000019156	g/TJ
2015	PCDD/F	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0,000000500	g/TJ
2015	PCDD/F	1A1a	CHIPS FROM ROUNDWOOD	0,000020657	g/TJ
2015	PCDD/F	1A1a	COAL (S=1.0%)	0,000003761	g/TJ
2015	PCDD/F	1A1a	DEINKING WASTE	0,000041250	g/TJ
2015	PCDD/F	1A1a	DEMOLITION WOOD	0,000041250	g/TJ
2015	PCDD/F	1A1a	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0,000021000	g/TJ
2015	PCDD/F	1A1a	FOREST RESIDUE CHIPS	0,000019613	g/TJ
2015	PCDD/F	1A1a	GASOIL (FOR NON-ROAD USE)	0,000000499	g/TJ
2015	PCDD/F	1A1a	HEAVY FUEL OIL (normal, S>1%)	0,000000422	g/TJ
2015	PCDD/F	1A1a	HEAVY FUEL OIL (S<1%)	0,000000395	g/TJ
2015	PCDD/F	1A1a	HYDROGEN	0,000000500	g/TJ
2015	PCDD/F	1A1a	INDUSTRIAL BIOGAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	INDUSTRIAL WASTE	0,000041250	g/TJ
2015	PCDD/F	1A1a	LANDFILL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	LIGHT FUEL OIL (S=0.0915%)	0,000000499	g/TJ
2015	PCDD/F	1A1a	LIQUID BIOFUELS	0,000000500	g/TJ
2015	PCDD/F	1A1a	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	MILLED PEAT	0,000016155	g/TJ
2015	PCDD/F	1A1a	MUNICIPAL WASTE - unsorted	0,000185000	g/TJ
2015	PCDD/F	1A1a	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000021000	g/TJ
2015	PCDD/F	1A1a	OTHER FOSSIL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	OTHER FOSSIL LIQUID	0,000000400	g/TJ
2015	PCDD/F	1A1a	OTHER FOSSIL SOLID	0,000004000	g/TJ
2015	PCDD/F	1A1a	OTHER NON-FOSSIL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	OTHER NON-FOSSIL SOLID	0,000019327	g/TJ
2015	PCDD/F	1A1a	OTHER WOOD RESIDUE	0,000021000	g/TJ
2015	PCDD/F	1A1a	OXYGEN STEEL FURNACE GAS	0,000000500	g/TJ
2015	PCDD/F	1A1a	PEAT PELLETS AND BRIQUETTES	0,000017500	g/TJ
2015	PCDD/F	1A1a	RECOVERED FUEL (REF 2)	0,000029536	g/TJ
2015	PCDD/F	1A1a	RECOVERED WOOD	0,000019910	g/TJ
2015	PCDD/F	1A1a	RECYCLED AND WASTE OILS	0,000000400	g/TJ
2015	PCDD/F	1A1a	SALT TREATED WOOD	0,000041250	g/TJ
2015	PCDD/F	1A1a	SAWDUST AND CUTTER CHIPS	0,000018265	g/TJ
2015	PCDD/F	1A1a	SOD PEAT	0,000016053	g/TJ
2015	PCDD/F	1A1a	TALL PITCH AND OIL	0,000000400	g/TJ
2015	PCDD/F	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000020988	g/TJ
2015	PCDD/F	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000020789	g/TJ

2015	PCDD/F	1A1a	WOOD RESIDUE CHIPS	0,000020640	g/TJ
2015	PCDD/F	1A1b	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A1b	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A1b	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A1b	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A1b	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1b	OTHER FOSSIL GAS	0,000000500	g/TJ
2015	PCDD/F	1A1b	OTHER HEAVY DISTILLATES	0,000000400	g/TJ
2015	PCDD/F	1A1b	OTHER WASTE	0,000041250	g/TJ
2015	PCDD/F	1A1b	PETROLEUM COKE	0,000004000	g/TJ
2015	PCDD/F	1A1b	REFINERY GAS	0,000000500	g/TJ
2015	PCDD/F	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A2a	BLAST FURNACE GAS	0,000000500	g/TJ
2015	PCDD/F	1A2a	COKE (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2a	COKE OVEN GAS	0,000000500	g/TJ
2015	PCDD/F	1A2a	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2a	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2a	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A2a	HYDROGEN	0,000000500	g/TJ
2015	PCDD/F	1A2a	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2a	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2a	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2a	OTHER FOSSIL LIQUID	0,000000400	g/TJ
2015	PCDD/F	1A2a	OTHER FOSSIL SOLID	0,000004000	g/TJ
2015	PCDD/F	1A2a	OXYGEN STEEL FURNACE GAS	0,000000500	g/TJ
2015	PCDD/F	1A2a	WOOD RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2b	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A2b	COAL (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2b	COKE (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2b	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A2b	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2b	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A2b	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2b	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2b	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2b	OTHER FOSSIL SOLID	0,000004000	g/TJ
2015	PCDD/F	1A2b	RECYCLED AND WASTE OILS	0,000000400	g/TJ
2015	PCDD/F	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A2c	COAL (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2c	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A2c	GASIFIED WASTE	0,000000500	g/TJ
2015	PCDD/F	1A2c	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2c	HEAVY FUEL OIL (normal, S>1%)	0,000000400	g/TJ
2015	PCDD/F	1A2c	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A2c	HYDROGEN	0,000000500	g/TJ

2015	PCDD/F	1A2c	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2c	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2c	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2c	OTHER FOSSIL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2c	OTHER FOSSIL LIQUID	0,000000400	g/TJ
2015	PCDD/F	1A2c	OTHER MEDIUM DISTILLATES	0,000000500	g/TJ
2015	PCDD/F	1A2c	PETROLEUM COKE	0,000004000	g/TJ
2015	PCDD/F	1A2c	REFINERY GAS	0,000000500	g/TJ
2015	PCDD/F	1A2c	TALL PITCH AND OIL	0,000000400	g/TJ
2015	PCDD/F	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A2d	ANIMAL-BASED FUELS	0,000021000	g/TJ
2015	PCDD/F	1A2d	BARK	0,000019328	g/TJ
2015	PCDD/F	1A2d	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A2d	COAL (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2d	DEMOLITION WOOD	0,000041250	g/TJ
2015	PCDD/F	1A2d	FOREST RESIDUE CHIPS	0,000020592	g/TJ
2015	PCDD/F	1A2d	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2d	HEAVY FUEL OIL (normal, S>1%)	0,000000400	g/TJ
2015	PCDD/F	1A2d	HEAVY FUEL OIL (S<1%)	0,000000398	g/TJ
2015	PCDD/F	1A2d	HYDROGEN	0,000000500	g/TJ
2015	PCDD/F	1A2d	INDUSTRIAL BIOGAS	0,000000500	g/TJ
2015	PCDD/F	1A2d	INDUSTRIAL WASTE	0,000041250	g/TJ
2015	PCDD/F	1A2d	LANDFILL GAS	0,000000425	g/TJ
2015	PCDD/F	1A2d	LIGHT FUEL OIL (S=0.0915%)	0,000000481	g/TJ
2015	PCDD/F	1A2d	LIQUID BIOFUELS	0,000000500	g/TJ
2015	PCDD/F	1A2d	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2d	METHANOL	0,000000500	g/TJ
2015	PCDD/F	1A2d	MILLED PEAT	0,000017242	g/TJ
2015	PCDD/F	1A2d	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	0,000021000	g/TJ
2015	PCDD/F	1A2d	OTHER NON-FOSSIL SOLID	0,000021000	g/TJ
2015	PCDD/F	1A2d	OTHER WASTE	0,000035053	g/TJ
2015	PCDD/F	1A2d	OTHER WOOD RESIDUE	0,000021000	g/TJ
2015	PCDD/F	1A2d	PLASTIC WASTE	0,000041250	g/TJ
2015	PCDD/F	1A2d	RECOVERED FUEL (REF 2)	0,000041250	g/TJ
2015	PCDD/F	1A2d	RECOVERED WOOD	0,000021000	g/TJ
2015	PCDD/F	1A2d	RECYCLED AND WASTE OILS	0,000000400	g/TJ
2015	PCDD/F	1A2d	SALT TREATED WOOD	0,000041250	g/TJ
2015	PCDD/F	1A2d	SAWDUST AND CUTTER CHIPS	0,000020889	g/TJ
2015	PCDD/F	1A2d	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A2d	SULPHUR CONCENTRATE	0,000021000	g/TJ
2015	PCDD/F	1A2d	TALL PITCH AND OIL	0,000000400	g/TJ
2015	PCDD/F	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000021000	g/TJ
2015	PCDD/F	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A2d	WOOD RESIDUE CHIPS	0,000020186	g/TJ

2015	PCDD/F	1A2e	BARK	0,000021000	g/TJ
2015	PCDD/F	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0,000000500	g/TJ
2015	PCDD/F	1A2e	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A2e	COKE (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2e	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A2e	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2e	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2e	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A2e	INDUSTRIAL BIOGAS	0,000000500	g/TJ
2015	PCDD/F	1A2e	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2e	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2e	MILLED PEAT	0,000017500	g/TJ
2015	PCDD/F	1A2e	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2e	SAWDUST AND CUTTER CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2e	WOOD RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2f	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A2f	COAL (S=1.0%)	0,000003921	g/TJ
2015	PCDD/F	1A2f	COKE (S=1.0%)	0,000003922	g/TJ
2015	PCDD/F	1A2f	COKE OVEN GAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A2f	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2f	GASOIL (FOR NON-ROAD USE)	0,000000490	g/TJ
2015	PCDD/F	1A2f	HEAVY FUEL OIL (normal, S>1%)	0,000000400	g/TJ
2015	PCDD/F	1A2f	HEAVY FUEL OIL (S<1%)	0,000000396	g/TJ
2015	PCDD/F	1A2f	INDUSTRIAL BIOGAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	LANDFILL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2f	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	OXYGEN STEEL FURNACE GAS	0,000000500	g/TJ
2015	PCDD/F	1A2f	PETROLEUM COKE	0,000003445	g/TJ
2015	PCDD/F	1A2f	PLASTIC WASTE	0,000033536	g/TJ
2015	PCDD/F	1A2f	RECOVERED FUEL (REF 2)	0,000037949	g/TJ
2015	PCDD/F	1A2f	RECOVERED WOOD	0,000021000	g/TJ
2015	PCDD/F	1A2f	RECYCLED AND WASTE OILS	0,000000364	g/TJ
2015	PCDD/F	1A2f	RUBBER WASTE	0,000033536	g/TJ
2015	PCDD/F	1A2f	SAWDUST AND CUTTER CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	ANIMAL-BASED FUELS	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	BARK	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	COAL (S=1.0%)	0,000004000	g/TJ
2015	PCDD/F	1A2gviii	DIESEL OIL (S=001%)	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	FOREST WOODFUEL	0,000021000	g/TJ

2015	PCDD/F	1A2gviii	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A2gviii	INDUSTRIAL BIOGAS	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	LANDFILL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	MILLED PEAT	0,000017500	g/TJ
2015	PCDD/F	1A2gviii	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	OTHER NON-FOSSIL GAS	0,000000500	g/TJ
2015	PCDD/F	1A2gviii	OTHER NON-FOSSIL SOLID	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	OTHER PETROLEUM PRODUCTS	0,000000400	g/TJ
2015	PCDD/F	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0,000000400	g/TJ
2015	PCDD/F	1A2gviii	RECOVERED FUEL (REF 1)	0,000041250	g/TJ
2015	PCDD/F	1A2gviii	RECYCLED AND WASTE OILS	0,000000400	g/TJ
2015	PCDD/F	1A2gviii	SAWDUST AND CUTTER CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A2gviii	WOOD RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000003043	g/TJ
2015	PCDD/F	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,000011596	g/TJ
2015	PCDD/F	1A3ei	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ai	BIOGAS FROM WASTEWATER TREATMENT	0,000000500	g/TJ
2015	PCDD/F	1A4ai	CHIPS FROM ROUNDWOOD	0,000021000	g/TJ
2015	PCDD/F	1A4ai	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A4ai	FOREST WOODFUEL	0,000021000	g/TJ
2015	PCDD/F	1A4ai	GASOIL (FOR NON-ROAD USE)	0,000000500	g/TJ
2015	PCDD/F	1A4ai	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A4ai	LANDFILL GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A4ai	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ai	MILLED PEAT	0,000017500	g/TJ
2015	PCDD/F	1A4ai	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ai	SAWDUST AND CUTTER CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A4ai	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A4ai	WOOD RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A4bi	COAL (S=1.0%)	0,000002182	g/TJ
2015	PCDD/F	1A4bi	FOREST WOODFUEL	0,000020601	g/TJ
2015	PCDD/F	1A4bi	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A4bi	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A4bi	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A4bi	PARAFFIN	0,000000500	g/TJ
2015	PCDD/F	1A4bi	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A4ci	FOREST WOODFUEL	0,000021000	g/TJ
2015	PCDD/F	1A4ci	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ

2015	PCDD/F	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	1A4ci	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ci	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	1A4ci	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000003044	g/TJ
2015	PCDD/F	1A5a	BARK	0,000021000	g/TJ
2015	PCDD/F	1A5a	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	1A5a	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,002825977	g/TJ
2015	PCDD/F	1A5a	SOD PEAT	0,000017500	g/TJ
2015	PCDD/F	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000021000	g/TJ
2015	PCDD/F	1A5a	WOOD RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	5C1a	INDUSTRIAL WASTE	0,000041250	g/TJ
2015	PCDD/F	5C1a	LIGHT FUEL OIL (S=0.0915%)	0,000000500	g/TJ
2015	PCDD/F	5C1a	MUNICIPAL WASTE - unsorted	0,000185000	g/TJ
2015	PCDD/F	5C1a	NATURAL GAS	0,000000500	g/TJ
2015	PCDD/F	5C1a	RECOVERED FUEL (REF 3)	0,000041250	g/TJ
2015	PCDD/F	5C1bi	DEMOLITION WOOD	0,000041250	g/TJ
2015	PCDD/F	5C1bi	FOREST RESIDUE CHIPS	0,000021000	g/TJ
2015	PCDD/F	5C1bi	HAZARDOUS WASTE	0,000041250	g/TJ
2015	PCDD/F	5C1bi	HEAVY FUEL OIL (S<1%)	0,000000400	g/TJ
2015	PCDD/F	5C1bi	LIGHT FUEL OIL (S=0.0915%)	0,000000296	g/TJ
2015	PCDD/F	5C1bi	LIQUID GAS	0,000000500	g/TJ
2015	PCDD/F	5C1bi	MUNICIPAL WASTE - unsorted	0,000131586	g/TJ
2015	PCDD/F	5C1bi	RECOVERED FUEL (REF 2)	0,000041250	g/TJ
2015	PCDD/F	5C1bi	RECOVERED WOOD	0,000021000	g/TJ
2015	PCDD/F	5C1bi	RECYCLED AND WASTE OILS	0,000000400	g/TJ

PAH-4 Implied emission factors in Finnish air pollutant inventory for 2015

2015	PAH-4	1A1a	ANIMAL-BASED FUELS	2,709242184	g/TJ
2015	PAH-4	1A1a	BARK	2,699927616	g/TJ
2015	PAH-4	1A1a	CHIPS FROM ROUNDWOOD	2,688325597	g/TJ
2015	PAH-4	1A1a	COAL (S=1.0%)	0,013802158	g/TJ
2015	PAH-4	1A1a	DEINKING WASTE	2,500000000	g/TJ
2015	PAH-4	1A1a	DEMOLITION WOOD	2,500000000	g/TJ
2015	PAH-4	1A1a	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	2,700000000	g/TJ
2015	PAH-4	1A1a	FOREST RESIDUE CHIPS	2,693546087	g/TJ
2015	PAH-4	1A1a	GASOIL (FOR NON-ROAD USE)	2,752006528	g/TJ
2015	PAH-4	1A1a	HEAVY FUEL OIL (normal, S>1%)	2,800000000	g/TJ
2015	PAH-4	1A1a	HEAVY FUEL OIL (S<1%)	2,877799962	g/TJ
2015	PAH-4	1A1a	INDUSTRIAL WASTE	2,500000000	g/TJ
2015	PAH-4	1A1a	LIGHT FUEL OIL (S=0.0915%)	2,797985995	g/TJ
2015	PAH-4	1A1a	LIQUID BIOFUELS	2,800000000	g/TJ
2015	PAH-4	1A1a	MILLED PEAT	0,996897410	g/TJ
2015	PAH-4	1A1a	MUNICIPAL WASTE - unsorted	25,016566015	g/TJ
2015	PAH-4	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	2,700011936	g/TJ
2015	PAH-4	1A1a	OTHER FOSSIL LIQUID	2,800000000	g/TJ
2015	PAH-4	1A1a	OTHER FOSSIL SOLID	0,012000000	g/TJ
2015	PAH-4	1A1a	OTHER NON-FOSSIL SOLID	2,700000000	g/TJ
2015	PAH-4	1A1a	OTHER WOOD RESIDUE	2,700000000	g/TJ
2015	PAH-4	1A1a	PEAT PELLETS AND BRIQUETTES	0,934964050	g/TJ
2015	PAH-4	1A1a	RECOVERED FUEL (REF 2)	2,500000000	g/TJ
2015	PAH-4	1A1a	RECOVERED WOOD	2,701213001	g/TJ
2015	PAH-4	1A1a	RECYCLED AND WASTE OILS	2,800000000	g/TJ
2015	PAH-4	1A1a	SALT TREATED WOOD	2,500000000	g/TJ
2015	PAH-4	1A1a	SAWDUST AND CUTTER CHIPS	2,699717712	g/TJ
2015	PAH-4	1A1a	SOD PEAT	0,999996411	g/TJ
2015	PAH-4	1A1a	TALL PITCH AND OIL	2,800000000	g/TJ
2015	PAH-4	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2,699508480	g/TJ
2015	PAH-4	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,865067796	g/TJ
2015	PAH-4	1A1a	WOOD RESIDUE CHIPS	2,700165857	g/TJ
2015	PAH-4	1A1b	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A1b	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A1b	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A1b	OTHER HEAVY DISTILLATES	2,800000000	g/TJ
2015	PAH-4	1A1b	OTHER WASTE	2,500000000	g/TJ
2015	PAH-4	1A1b	PETROLEUM COKE	0,012000000	g/TJ
2015	PAH-4	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A2a	COKE (S=1.0%)	0,012000000	g/TJ

2015	PAH-4	1A2a	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2a	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A2a	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A2a	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2a	OTHER FOSSIL LIQUID	2,800000000	g/TJ
2015	PAH-4	1A2a	OTHER FOSSIL SOLID	0,012000000	g/TJ
2015	PAH-4	1A2a	WOOD RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2b	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ
2015	PAH-4	1A2b	COAL (S=1.0%)	0,012000000	g/TJ
2015	PAH-4	1A2b	COKE (S=1.0%)	0,012000000	g/TJ
2015	PAH-4	1A2b	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A2b	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A2b	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A2b	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2b	OTHER FOSSIL SOLID	0,012000000	g/TJ
2015	PAH-4	1A2b	RECYCLED AND WASTE OILS	2,800000000	g/TJ
2015	PAH-4	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A2c	COAL (S=1.0%)	0,012000000	g/TJ
2015	PAH-4	1A2c	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A2c	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A2c	HEAVY FUEL OIL (normal, S>1%)	2,800000000	g/TJ
2015	PAH-4	1A2c	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A2c	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2c	OTHER FOSSIL LIQUID	2,800000000	g/TJ
2015	PAH-4	1A2c	OTHER MEDIUM DISTILLATES	2,800000000	g/TJ
2015	PAH-4	1A2c	PETROLEUM COKE	0,012000000	g/TJ
2015	PAH-4	1A2c	TALL PITCH AND OIL	2,800000000	g/TJ
2015	PAH-4	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A2d	ANIMAL-BASED FUELS	2,700000000	g/TJ
2015	PAH-4	1A2d	BARK	3,364380567	g/TJ
2015	PAH-4	1A2d	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ
2015	PAH-4	1A2d	COAL (S=1.0%)	0,011344596	g/TJ
2015	PAH-4	1A2d	DEMOLITION WOOD	2,500000000	g/TJ
2015	PAH-4	1A2d	FOREST RESIDUE CHIPS	4,829053383	g/TJ
2015	PAH-4	1A2d	GASOIL (FOR NON-ROAD USE)	2,784126674	g/TJ
2015	PAH-4	1A2d	HEAVY FUEL OIL (normal, S>1%)	1,971849489	g/TJ
2015	PAH-4	1A2d	HEAVY FUEL OIL (S<1%)	2,702388983	g/TJ
2015	PAH-4	1A2d	INDUSTRIAL WASTE	2,500000000	g/TJ
2015	PAH-4	1A2d	LIGHT FUEL OIL (S=0.0915%)	2,977631744	g/TJ
2015	PAH-4	1A2d	LIQUID BIOFUELS	2,800000000	g/TJ
2015	PAH-4	1A2d	METHANOL	2,294788128	g/TJ
2015	PAH-4	1A2d	MILLED PEAT	1,479358003	g/TJ
2015	PAH-4	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-TRY	2,506021350	g/TJ
2015	PAH-4	1A2d	OTHER NON-FOSSIL SOLID	2,700000000	g/TJ
2015	PAH-4	1A2d	OTHER WASTE	19,020918984	g/TJ

2015	PAH-4	1A2d	OTHER WOOD RESIDUE	2,700000000	g/TJ
2015	PAH-4	1A2d	PLASTIC WASTE	2,500000000	g/TJ
2015	PAH-4	1A2d	RECOVERED FUEL (REF 2)	2,500000000	g/TJ
2015	PAH-4	1A2d	RECOVERED WOOD	2,700000000	g/TJ
2015	PAH-4	1A2d	RECYCLED AND WASTE OILS	2,800000000	g/TJ
2015	PAH-4	1A2d	SALT TREATED WOOD	2,500000000	g/TJ
2015	PAH-4	1A2d	SAWDUST AND CUTTER CHIPS	3,329579191	g/TJ
2015	PAH-4	1A2d	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A2d	SULPHUR CONCENTRATE	2,700000000	g/TJ
2015	PAH-4	1A2d	TALL PITCH AND OIL	2,729238365	g/TJ
2015	PAH-4	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2,700000000	g/TJ
2015	PAH-4	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A2d	WOOD RESIDUE CHIPS	7,304156732	g/TJ
2015	PAH-4	1A2e	BARK	2,700000000	g/TJ
2015	PAH-4	1A2e	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ
2015	PAH-4	1A2e	COKE (S=1.0%)	0,012000000	g/TJ
2015	PAH-4	1A2e	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A2e	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2e	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A2e	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A2e	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2e	MILLED PEAT	1,000000000	g/TJ
2015	PAH-4	1A2e	SAWDUST AND CUTTER CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2e	WOOD RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2f	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ
2015	PAH-4	1A2f	COAL (S=1.0%)	0,010776096	g/TJ
2015	PAH-4	1A2f	COKE (S=1.0%)	0,010788913	g/TJ
2015	PAH-4	1A2f	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A2f	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2f	GASOIL (FOR NON-ROAD USE)	2,509319452	g/TJ
2015	PAH-4	1A2f	HEAVY FUEL OIL (normal, S>1%)	2,800000000	g/TJ
2015	PAH-4	1A2f	HEAVY FUEL OIL (S<1%)	2,672022658	g/TJ
2015	PAH-4	1A2f	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2f	PETROLEUM COKE	0,003392220	g/TJ
2015	PAH-4	1A2f	PLASTIC WASTE	0,084403772	g/TJ
2015	PAH-4	1A2f	RECOVERED FUEL (REF 2)	1,466101536	g/TJ
2015	PAH-4	1A2f	RECOVERED WOOD	2,700000000	g/TJ
2015	PAH-4	1A2f	RECYCLED AND WASTE OILS	1,488137150	g/TJ
2015	PAH-4	1A2f	RUBBER WASTE	0,084403772	g/TJ
2015	PAH-4	1A2f	SAWDUST AND CUTTER CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2gvii	DIESEL OIL (S=001%)	1,873536300	g/TJ
2015	PAH-4	1A2gvii	MOTOR GASOLINE (S=0.001%)	1,925278026	g/TJ
2015	PAH-4	1A2gviii	ANIMAL-BASED FUELS	2,700000000	g/TJ
2015	PAH-4	1A2gviii	BARK	2,700000000	g/TJ
2015	PAH-4	1A2gviii	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ

2015	PAH-4	1A2gviii	COAL (S=1.0%)	0,012000000	g/TJ
2015	PAH-4	1A2gviii	DIESEL OIL (S=001%)	2,800000000	g/TJ
2015	PAH-4	1A2gviii	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2gviii	FOREST WOODFUEL	2,700000000	g/TJ
2015	PAH-4	1A2gviii	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A2gviii	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A2gviii	MILLED PEAT	1,000000000	g/TJ
2015	PAH-4	1A2gviii	OTHER NON-FOSSIL SOLID	2,700000000	g/TJ
2015	PAH-4	1A2gviii	OTHER PETROLEUM PRODUCTS	2,800000000	g/TJ
2015	PAH-4	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	2,800000000	g/TJ
2015	PAH-4	1A2gviii	RECOVERED FUEL (REF 1)	2,500000000	g/TJ
2015	PAH-4	1A2gviii	RECYCLED AND WASTE OILS	2,800000000	g/TJ
2015	PAH-4	1A2gviii	SAWDUST AND CUTTER CHIPS	2,700000000	g/TJ
2015	PAH-4	1A2gviii	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A2gviii	WOOD RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A3c	GASOIL (FOR NON-ROAD USE)	1,877934272	g/TJ
2015	PAH-4	1A4ai	CHIPS FROM ROUNDWOOD	2,700000000	g/TJ
2015	PAH-4	1A4ai	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A4ai	FOREST WOODFUEL	9,695512821	g/TJ
2015	PAH-4	1A4ai	GASOIL (FOR NON-ROAD USE)	2,800000000	g/TJ
2015	PAH-4	1A4ai	HEAVY FUEL OIL (S<1%)	2,792299356	g/TJ
2015	PAH-4	1A4ai	LIGHT FUEL OIL (S=0.0915%)	2,799891030	g/TJ
2015	PAH-4	1A4ai	MILLED PEAT	1,000000000	g/TJ
2015	PAH-4	1A4ai	SAWDUST AND CUTTER CHIPS	2,700000000	g/TJ
2015	PAH-4	1A4ai	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A4ai	WOOD RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A4aii	DIESEL OIL (S=001%)	1,873536300	g/TJ
2015	PAH-4	1A4aii	LIQUID GAS	1,739130435	g/TJ
2015	PAH-4	1A4aii	MOTOR GASOLINE (S=0.001%)	1,925278026	g/TJ
2015	PAH-4	1A4bi	COAL (S=1.0%)	0,006545455	g/TJ
2015	PAH-4	1A4bi	FOREST WOODFUEL	151,348863737	g/TJ
2015	PAH-4	1A4bi	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A4bi	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A4bi	PARAFFIN	2,800000000	g/TJ
2015	PAH-4	1A4bi	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A4bii	DIESEL OIL (S=001%)	1,873536300	g/TJ
2015	PAH-4	1A4bii	MOTOR GASOLINE (S=0.001%)	1,925278026	g/TJ
2015	PAH-4	1A4ci	FOREST WOODFUEL	9,706955055	g/TJ
2015	PAH-4	1A4ci	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A4ci	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	1A4ci	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A4cii	DIESEL OIL (S=001%)	1,873536300	g/TJ
2015	PAH-4	1A4cii	MOTOR GASOLINE (S=0.001%)	1,925278026	g/TJ

2015	PAH-4	1A5a	BARK	2,700000000	g/TJ
2015	PAH-4	1A5a	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	1A5a	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	1A5a	LIGHT FUEL OIL (S=0.0915%)	236,992037471	g/TJ
2015	PAH-4	1A5a	SOD PEAT	1,000000000	g/TJ
2015	PAH-4	1A5a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2,700000000	g/TJ
2015	PAH-4	1A5a	WOOD RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	5C1a	INDUSTRIAL WASTE	2,495334354	g/TJ
2015	PAH-4	5C1a	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	5C1a	MUNICIPAL WASTE - unsorted	34,000000000	g/TJ
2015	PAH-4	5C1a	RECOVERED FUEL (REF 3)	2,495334354	g/TJ
2015	PAH-4	5C1bi	DEMOLITION WOOD	2,500000000	g/TJ
2015	PAH-4	5C1bi	FOREST RESIDUE CHIPS	2,700000000	g/TJ
2015	PAH-4	5C1bi	HAZARDOUS WASTE	2,500000000	g/TJ
2015	PAH-4	5C1bi	HEAVY FUEL OIL (S<1%)	2,800000000	g/TJ
2015	PAH-4	5C1bi	LIGHT FUEL OIL (S=0.0915%)	2,800000000	g/TJ
2015	PAH-4	5C1bi	MUNICIPAL WASTE - unsorted	34,000000000	g/TJ
2015	PAH-4	5C1bi	RECOVERED FUEL (REF 2)	2,500000000	g/TJ
2015	PAH-4	5C1bi	RECOVERED WOOD	2,700000000	g/TJ
2015	PAH-4	5C1bi	RECYCLED AND WASTE OILS	2,800000000	g/TJ

HCB Implied emission factors in Finnish air pollutant inventory for 2015

2015	HCB	1A1a	CHIPS FROM ROUNDWOOD	0,000001025	kg/TJ
2015	HCB	1A1a	DEMOLITION WOOD	0,000000795	kg/TJ
2015	HCB	1A1a	FOREST RESIDUE CHIPS	0,000000988	kg/TJ
2015	HCB	1A1a	OTHER WOOD RESIDUE	0,000000739	kg/TJ
2015	HCB	1A1a	RECOVERED WOOD	0,000000825	kg/TJ
2015	HCB	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000001229	kg/TJ
2015	HCB	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000600	kg/TJ
2015	HCB	1A1a	WOOD RESIDUE CHIPS	0,000001002	kg/TJ
2015	HCB	1A1b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000625	kg/TJ
2015	HCB	1A2a	FOREST RESIDUE CHIPS	0,000000990	kg/TJ
2015	HCB	1A2a	WOOD RESIDUE CHIPS	0,000001053	kg/TJ
2015	HCB	1A2b	CHIPS FROM ROUNDWOOD	0,000001053	kg/TJ
2015	HCB	1A2b	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000625	kg/TJ
2015	HCB	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000625	kg/TJ
2015	HCB	1A2d	CHIPS FROM ROUNDWOOD	0,000015828	kg/TJ
2015	HCB	1A2d	DEMOLITION WOOD	0,000000920	kg/TJ
2015	HCB	1A2d	FOREST RESIDUE CHIPS	0,000000920	kg/TJ
2015	HCB	1A2d	OTHER WOOD RESIDUE	0,000081585	kg/TJ
2015	HCB	1A2d	RECOVERED WOOD	0,000000802	kg/TJ
2015	HCB	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0,000001130	kg/TJ
2015	HCB	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000625	kg/TJ
2015	HCB	1A2d	WOOD RESIDUE CHIPS	0,000000954	kg/TJ
2015	HCB	1A2e	CHIPS FROM ROUNDWOOD	0,000000907	kg/TJ
2015	HCB	1A2e	FOREST RESIDUE CHIPS	0,000000980	kg/TJ
2015	HCB	1A2e	WOOD RESIDUE CHIPS	0,000000952	kg/TJ
2015	HCB	1A2f	CHIPS FROM ROUNDWOOD	0,000001053	kg/TJ
2015	HCB	1A2f	FOREST RESIDUE CHIPS	0,000001000	kg/TJ
2015	HCB	1A2f	RECOVERED WOOD	0,000000833	kg/TJ
2015	HCB	1A2gviii	CHIPS FROM ROUNDWOOD	0,000001053	kg/TJ
2015	HCB	1A2gviii	FOREST RESIDUE CHIPS	0,000001000	kg/TJ
2015	HCB	1A2gviii	FOREST WOODFUEL	0,000001250	kg/TJ
2015	HCB	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0,000000625	kg/TJ
2015	HCB	1A2gviii	WOOD RESIDUE CHIPS	0,000001053	kg/TJ
2015	HCB	1A3dii	GASOIL (FOR NON-ROAD USE)	0,000001873	kg/TJ
2015	HCB	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0,000003454	kg/TJ
2015	HCB	1A4ai	CHIPS FROM ROUNDWOOD	0,000001068	kg/TJ
2015	HCB	1A4ai	FOREST RESIDUE CHIPS	0,000001000	kg/TJ
2015	HCB	1A4ai	FOREST WOODFUEL	0,000005000	kg/TJ
2015	HCB	1A4ai	WOOD RESIDUE CHIPS	0,000001053	kg/TJ
2015	HCB	1A4bi	COAL (S=1.0%)	0,000010695	kg/TJ
2015	HCB	1A4bi	FOREST WOODFUEL	0,000005000	kg/TJ

2015	HCB	1A4ci	FOREST WOODFUEL	0,000005000	kg/TJ
2015	HCB	1A4ciii	GASOIL (FOR NON-ROAD USE)	0,000001874	kg/TJ
2015	HCB	1A5a	FOREST RESIDUE CHIPS	0,000001000	kg/TJ
2015	HCB	1A5a	LIGHT FUEL OIL (S=0.0915%)	0,001738755	kg/TJ
2015	HCB	1A5a	WOOD RESIDUE CHIPS	0,000001053	kg/TJ

PCB Implied emission factors in Finnish air pollutant inventory for 2015

2015	PCB	1A4ai	FOREST WOOD-FUEL	0,060000000	g/TJ
2015	PCB	1A4bi	FOREST WOOD-FUEL	0,060000000	g/TJ
2015	PCB	1A4ci	FOREST WOOD-FUEL	0,060000000	g/TJ

Annex 3

Emission factor tables for point sources

Nitrogen oxides, NO_x

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästötiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto). in Finnish

NO_x-emission factors	**15-50 MW**		
Fuel	**Combustion technology**	**Emission factor mg/MJ**	**Source**
Coal >50%	All	170	1
Peat >50%	Grate	200	1
	BFB	160	1
	CFB	120	1
	Gasification	220	1
Wood >50%	Grate	140	1
	BFB	120	1
	CFB	100	1
	Gasification	170	1
Mixed burning. no fuel more than 50 %	Grate	200	1
	BFB	160	1
	CFB	120	1
	Gasification	220	1
Natural gas	Burner	70	1
Heavy fuel oil	Burner	180	1
Light fuel oil	Burner	100	1
Gas turbines. natural gas		150	1
Gas motor (SG)/ douple fuel (DF)		160	1
Gas diesel motor (GD), Gas		1500	1
Oil diesel motor (CI)		2000	1

Source:

1. Jalovaara, J.; Aho J.; Hietamäki E.; Hyytiä V.; Paras käytettävissä oleva tekniikka (BAT) 5-50 MW:n polttolaitoksissa Suomessa, Suomen Ympäristö 649, Suomen ympäristökeskus, Helsinki 2003 (In Finnish)

- Tables pp. 16-19. Tyypilliset ominaispäästökertoimet pienissä polttolaitoksissa

NMVOC, non-methane volatile organic compounds

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät – Energiantuotanto (10.6.2004)
(www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit)
> Päästötiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto).
in Finnish

Fuel	Emission factor mg/MJ	Source
Caol	1	1
Natural gas	1	1
Heavy fuel oil	1	1
Light fuel oil	1	1
Peat	2	1
Wood	2	1
Peat fluidized bed	3	1
Wood. fluidized bed	3	1

Source:

1. Expert estimation based on national measurement data

Carbon monoxide, CO

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästötiedon tuottaminen > Aineistoa päästöjen määrittäminen > Energiantuotanto). in Finnish

Fuel	Combustion technology	Capacity			
		15-50 MW	50-150 MW	150-300 MW	>300 MW
		Emission factor			
		mg/MJ	mg/MJ	mg/MJ	mg/MJ
Coal >80%	Burning			5	5
	Grate	30	30	5	5
	Fluidized bed	30	30	5	5
Coal mixed burning 50-80%	All	30	30	10	10
Peat >80%	Grate	100	30	10	10
	Fluidized bed	100	30	10	10
	Other	30	10	10	10
Peat mixed burning 50-80%	Grate	100	30	10	10
	Fluidized bed	100	30	10	10
	Other	70	30	10	10
Wood >80%	Grate	250	250	150	150
	Fluidized bed	150	150	150	150
	Other	250	250	150	150
Wood mixed burning 50-80%	Grate	250	250	70	70
	Fluidized bed	150	150	70	70
	Other	150	150	70	70
Mixed burning no fuel more than 50 %	Grate	100	50	30	30
	Fluidized bed	100	50	30	30
	Other	100	50	30	30
Natural gas	Burning	20	20	20	20
Oil	Burning	20	20	20	20
Gas turbines. natural gas		20	20	20	20

Polychlorinated dioxins and furans, PCDD/PCDF

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästötiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto). in Finnish

	PCDD/F-emission factors	
Fuel	**mg I-TEQ/TJ**	**Source**
Coal	0.004	1*
Heavy fuel oil	0.0004	1*
Light fuel oil	0.0005	1*
Wood	0.021	2*
Peat	0.0175	3
Natural gas	0.0005	4

Sources:

1. Expert estimate based on UNEP (1999). Dioxin and furan inventories. National and regional emissions of PCDD/PCDF. May 1999 (Germany: Investigation of emissions)

2. Expert estimate based on USEPA (1997) Locating and Estimating Air Emissions from Sources of Dioxins and Furans. USEPA. May 1997. Office of Air Quality Planning And Standards

3. Ruuskanen (2000). Mittaukset; Dioksiineja vähentävät ympäristönsuojelukeinot 1990-luvulla ja uudet mahdollisuudet. Juhani Ruuskanen. Ympäristö- ja terveyslehti 3:2000. In Finnish

4. UNEP (2003). UNEP/POPS/INC.7/INF/14: Standardized Toolkit for Identification and quantification of Dioxin and Furan Releases. 1st edition. May 2003. www.pops.int; (based on measurements in Belgium. Germany and Switzerland)

Polyaromatic hydrocarbons , PAH-4
expressed as the sum of benzo(a)pyrene. benzo(b)fluoranthene. benzo(k).fluoranthene and indeno(1.2.3.-cd)pyrene

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästötiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto). in Finnish

PAH-4 expressed as the sum of benzo(a)pyrene. benzo(b)fluoranthene. benzo(k)fluoranthene and indeno(1.2.3-cd)pyrene	**Emission factor**		
Fuel	**g/t**	**g/TJ**	**Source**
Coal	0.0003	0.012	1
Heavy fuel oil	0.12	2.8	2
Light fuel oi	0.12	2.8	2
Wood	0.03	2.7	3
Peat		1	4

Sources:

1. Expert estimate based on EEA(2003) Emission Inventory Guidebook

2. Expert estimate based on UBA (1998). Investigation of emissions and abatement measures for persistent organic pollutants in the FRG. Research Report 295 44 365. UBA-*FB 98-115/e. 75/98

3. Expert estimate based on TNO (1995). Technical paper to the OSPARCOM- HELCOM-UNECE emission Inventory of Heavy Metals and POP. TNO-Report TNO-MEP - 95/247:

4. Expert estimate based on KTM (1988). Energiatuotannon kokonaispäästöt Suomessa. KTM. Energiaosasto. D:162.1988. In Finnish

Heavy metals

Arsenic (As), Mercury (Hg), Cadmium (Cd), Chrome (Cr), Copper (Cu), Nickel (Ni), Lead (Pb) and Zinc (Zn)

Point source emission factors for > 50 MW facilities

Updated September 2006

Source: Päästötietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästötiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto). in Finnish

Fuel	**Emission factors** [µg/MJ]				
	no abate-ment	**cyclone**	**washer**	**electric filter**	**electric filter + desulphuration**
Arsenic (As)					
Heavy fuel oil	2	1	-	-	
Peat	81	33	11	0.5	
Coal	130	26	17	7.8	1.0
Wood	1	0.3	0.13	0.1	
Mercury (Hg)					
Heavy fuel oil	0.03	0.03	-	-	
Peat	2.6	2.6	2.3	1.3	
Coal	3.7	3.7	3.3	1.4	0.95
Wood	0.5	0.5	0.45	0.5	
Cadmium (Cd)					
Heavy fuel oil	0.3	0.2	-	-	
Peat	2.8	1.1	0.4	0.02	
Coal	18	3.6	2.3	0.2	0.09
Wood	5	2	0.65	0.5	
Chrome (Cr)					
Heavy fuel oil	1	0.5	-	-	
Peat	140	56	18	0.8	
Coal	1000	200	130	5	1.5
Wood	35	9	4.5	2	
Copper (Cu)					
Heavy fuel oil	2.5	1	-	-	
Peat	220	89	29	1.3	
Coal	350	70	45	4	1.8
Wood	51	12.75	12.75	5	

Fuel	Emission factors [µg/MJ]				
	no abate-ment	**cyclone**	**washer**	**electric filter**	**electric filter + desulphuration**

Nickel (Ni)

Fuel	Emission factors [µg/MJ]				
Heavy fuel oil	300	150	-	-	
Peat	140	58	19	0.8	
Coal	800	160	100	4	1
Wood	30	8.5	3.9	2	

Lead (Pb)

Fuel	Emission factors [µg/MJ]				
Heavy fuel oil	25	10	-	-	
Peat	170	68	22	1	
Coal	790	160	100	3.9	1.2
Wood	45	12	6	3.4	

Zinc (Zn)

Fuel	Emission factors [µg/MJ]				
Heavy fuel oil	12	6	-	-	
Peat	330	130	43	8	
Coal (1	1500	300	195	84	12
Wood	700	175	175	54	

(1large variation between facilities althougt factors are based on measurements

Vanadium (V)

Fuel	Emission factors [µg/MJ]				
Heavy fuel oil	1000	450	-	-	
Peat	180	74	24	1.1	
Coal	1400	270	180	6.9	3.1
Wood	100	25	13	9	

Sources:

· "NOT ABATED" emission factors are based on expert estimation on the measured heavy metal concentrations in fuels and on a coarse division between the bottom and fly ash .

· Hupa M. et al. (1988). Total emissions from energy production in Finland Hki 1988. Ins.tsto Prosessikemia Ky. Ministry of Trade and Industry. Energy Department. Research Reports D:162. In Finnish.

· Melanen et al. (1999). Raskasmetallien päästöt ilmaan Suomessa 1990-luvulla Suomen ympäristö 329. Suomen ympäristökeskus 1999. p. 86 //Kivihiili: Taulukko 3. Liite 5. (s. 69).Turve: Taulukko 4. Liite 6. (s. 72) . In Finnish

· Kouvo Petri (2003). Formation and control of trace metal emissions in co-firing of biomass. peat and wastes in fluidized bed combustors. Lappeenrannan teknillinen yliopisto. Academic Dissertation. 148. 2003.

· Harju. t. and Munthe. J. (2000). Optimal utilisation of coal in modern power plants with respect to mass flows and emissions of VOC/PAHs and mercury. OMPAC. VTT 31.12.2000. p. 238. Workpackage PIV.1 Field measurement campaign in Helsinki Energy (T. Harju/VTT. J. Munthe/IVL)

· Helsingin Energia/Fortum (2003). Kivihiilen kertoimet sähkösuotimen ja rikinpoiston jälkeen perustuvat suomalaisilta laitoksilta saatuihin mittaus-/ominaispäästötietoihin. In Finnish

Annex 4

Correction made to the data taken from VAHTI Database of the Centres for Economic Development, Transport and the Environment in 2015

Annex 4. Corrections made to emission data taken from the Finnish Regional ELY Centres' VAHTI database in 2015

The following corrections and modifications were made to the data reported by the plants to the VAHTI database from where the data was taken to the air emission inventory data system (IPTJ) and checked before use in the inventory (see Chapter 2.3 for description of the process of inventory preparation):

1 Fuel use data (3297 records in the year 2015 data)

- 675 fuel use records were added from emission trading material
- 3 fuel use records were added from other material
- 1829 fuel use records having Vahti data were taken from emission trading material directly on boiler level or according to plant level data
- 790 fuel use records were directly from Vahti database

For 2778 original Vahti fuel use records the following corrections were made (some corrections were also made for the Vahti data corresponding to the above 1829 records from emission trading data in order that the plant level data from emission trading material could be more accurately modified back to boiler level data):

- 45 plant level IDs were modified to accomplish correspondence between Vahti data and energy trading data on plant level
- 43 energy content values (TJ) of fuel use were corrected based on fuel amount values (mass or volume)
- 3 energy content values (TJ) were corrected based on other information (e.g. order of magnitude)
- 31 missing energy content values (TJ) were calculated by using fuel amount values
- 1 missing fuel use records were calculated and added according to the corresponding emission records
- 30 fuel use codes (classifications) were changed
- 10 fuel use record IDs (that identify the emission source, for example, a boiler) were changed to correspond the emission data
- 42 overlapping fuel use records were deleted (corresponding fuel use and emission information was taken from off-road machinery model TYKO)
- 230 monthly reported fuel use records were modified to correspond the year-based data
- 3 fuel use modifications were done
- 1 sulphur content value was corrected
- 411 fuel use records having zero or null values (mass or volume and energy content) were deleted (these values are problematical to the calculation process of the IPTJ)
- In addition, there were 109 fuel use records that had a severe inconsistency between the fuel amount (mass or volume) and energy content (TJ) values.

2 Emission data

- Emission data was calculated for 647 fuel use records added from emission trading material
- All emission data was calculated (no emissions in Vahti) for 89 original fuel use records. Also, there was partly missing emission data in Vahti which was calculated.
- 4 emission values were corrected

- 5 emission parameters were changed
- 38 emission record IDs (that identify the emission source, for example, a boiler) were changed to correspond the fuel use data
- 4 incorrect emissions records were deleted
- 326 overlapping emission records were deleted (corresponding emission information was taken from off-road machinery model TYKO)
- 730 monthly reported emission records were modified to correspond the year-based data
- Almost all emissions reported for E-PRTR in plant level in Vahti were deleted
- Emission records having 0 or null values were deleted

3 Combustion (1521 records in 2015) **and emission abatement technology data**

- Default values were added for 401 missing fuel capacities (thermal input)
- Other values were added for 101 missing fuel capacities (thermal input)
- 98 values of fuel capacities (thermal input) were corrected
- Default values were added for 387 undefined or missing combustion technologies
- Other values were added for 82 undefined or missing combustion technologies
- 36 values of combustion technologies were corrected
- 61 records of emission abatement technologies were added
- The number of records for which abatement technology data was missing could not be estimated (missing data may mean actually missing data or that there is no abatement technology in use). If no abatement data in Vahti, ESP was used as default technology for grate, fluidized bed and for gasification if thermal input was higher than 5 MW and cyclone was used as default technology for heavy oil burners if thermal input was higher than 1 MW.

Annex 5

Adittional Info; Transport 2014

Table F4: Basis for estimating emissions from mobile sources. Please tick off with X.

NFR09 code	Description	Fuel sold	Fuel used	Comment
1 A 3 a i (i)	International aviation (LTO)	***x***		
1 A 3 a i (ii)	International aviation (Cruise)	***x***		
1 A 3 a ii (i)	1 A 3 a ii Civil aviation (Domestic, LTO)	x		
1 A 3 a ii (ii)	1 A 3 a ii Civil Aviation (Domestic, Cruise)	x		
1A3b	**Road transport**			
1A3c	Railways	***x***		
1A3di (i)	International maritime navigation	***x***		
1A3di (ii)	International inland waterways	***x***		
1A3dii	National navigation	***x***		
1A4ci	Agriculture	x		
1A4cii	Off-road vehicles and other machinery	x		
1A4ciii	National fishing	x		
1 A 5 b	Other mobile (Including military)	***x***		

Annex 6

Net caloric values and sulphur contents of fuels

Table 6.1. Net caloric values by fuel.

Fuels	NCV	Unit	Source of emission factor
Liquid fuels			
Town gas	16.9	GJ/1000 m3	Neste 1993
Refinery gas (+ other gases)	49 (45-55)	GJ/t	Plant-specific
LPG (liquefied petroleum gas)	46.2	GJ/t	Neste/ET2004
Naphta	44.3	GJ/t	EE
Motor gasoline	43	GJ/t	VTT/Liisa Model/Neste
Aviation gasoline	43.7	GJ/t	EE/Neste
Jet fuel	43.3	GJ/t	EE /Fortum 2002
Other kerosenes (vaporising oil, lamp kerosene)	43.1	GJ/t	EE/IPCC1996
Diesel oil	42.8	GJ/t	VTT/Liisa Model/Neste
Gasoil (light fuel oil, heating fuel oil)	42.7	GJ/t	Neste/EE
Gasoil (for non-road use)	42.8	GJ/t	EE (same as diesel oil)
Residual fuel oil (heavy fuel oil), low sulphur	41.1	GJ/t	Neste/EE
Residual fuel oil (heavy fuel oil), normal	40.5	GJ/t	Neste/EE
Other residual fuel oil (heavy bottom oil)	40.2	GJ/t	Neste/EE
Petroleum coke	33.5 (20-36)	GJ/t	Plant-specific
Recycled waste oil	41	GJ/t	EE (=RFO)
Other petroleum products	35 (30-47)	GJ/t	EE (=RFO)
Solid fuels			
Anthracite	33.5	GJ/t	IPCC1996
Hard coal (bituminous)	25.5 (21-32)	GJ/t	StatFi 2005
Coal briquettes	30	GJ/t	EE
Coal tar	36.5	GJ/t	Plant-specific
Coke	29.3 (25-35)	GJ/t	IPCC1996
Coke oven gas	16.7	GJ/1000 m3	Plant-specific
Blast furnace gas	11.2-11.5 3.6	GJ/1000 m3	Plant-specific
Gaseous fuels			
Natural gas	36	GJ/1000 m3	Gasum 2005
Gasified solid waste*	13.3 (7-30)	GJ/1000 m3	EE
Biomass fuels			
Wood fuels (solid, includes e.g. firewood, bark, chips, sawdust and other industrial wood residues, recycled wood, pellets and briquettes)	7.8–16	GJ/t	IPCC1996
Black and sulphite liquors	7.3–15	GJ/t	IPCC1996
Other by-products from wood processing industry (includes e.g. pine oil and tar, methanol, fibrous sludge, waste paper, stink gas, etc.)	3–37 20	GJ/t GJ/1000 m3	IPCC1996, VTT2045, EE
Plant and animal residues	10-35	GJ/t	EE (=wood)

Biogas (landfill gas, biogas from wastewater treatment, industrial biogas and other biogas)	15–20.5	GJ/1000 m3	EE
Hydrogen	10.8	GJ/1000 m3	
Other fuels, peat			
Peat (milled)	10.1	GJ/t	VTT 2003
Peat (sod peat)	12.3	GJ/t	VTT 2003
Peat (pellets and briquettes)	20.9	GJ/t	VTT 2003
Other fuels, wastes etc.			
Mixed fuels* (REF, RDF, PDF, MSW)	10–21	GJ/t	StatFi 2004
Demolition wood*	8-15	GJ/t	StatFi 2004
Impregnated wood*	12	GJ/t	StatFi 2004
De-inking sludge*	4	GJ/t	EE
Other residues and by-products	30	GJ/t	EE
Plastics waste	33 (25-40)	GJ/t	EE
Rubber waste	33	GJ/t	StatFi 2004
Hazardous waste	15 (10-15)	GJ/t	Ekokem 2004
Other non-specified waste (industrial waste, etc.)	15–30	GJ/t	EE

* Mixed fuels: contains fossil and non-fossil carbon; the CO2 emission factor refers only to the fossil fraction of total energy content.
Sources:
EE: expert estimation Kari Grönfors, Statistics Finland
Neste 1993: Composition and properties of natural gas and liquefied petroleum gas (in Finnish)
Neste: product data sheets, personal communications
VTT/Liisa Model: Calculation system of road traffic emissions
StatFi 2004: Mixed fuels in Finland"s greenhouse gas inventory and on compilation of the energy statistics (Masters Thesis of Minna Jokinen)
StatFi 2005: Research of Teemu Oinonen (not published, see Annex 3)
Ekokem 2004: Environmental report 2004
Gasum 2005: personal communication
VTT2045: Properties of fuels used in Finland, VTT 2000
Fortum 2002: Composition of kerosenes
VTT 2003: Vesterinen 2003

The default NCVs are practically constant over time. There are some exceptions concerning plant specific fuels like refinery gases, BFG and certain waste-derived fuels. The operators should report to VAHTI system both fuel quantities as well as energy contents of the fuels used. Thus in bottom-up data there are some variations in the NCVs. The annual average values of reported data are compared to the default NCVs. Also plant level NCVs are compared to default NCVs.

Peat is one of the main fuels in Finland. It is the fourth largest fuel (after wood, hard coal and natural gas), representing over 6% of Total primary energy supply (TPES) and over 8% of combustible fuels. Its share is higher than for example the share of any liquid fuel. The share of peat is generally around half of the share of hard coal, but varies considerable, like the share of hard coal, too.

Table 6.2. Fuel specific sulphur contents.

Fuel	Fuel	Default S%
11000	Petroleum products	0.21
11108	town gas	0.00001
11109	Other fossile gas	0.004
11110	Refinery gas	0.01
11120	Light distillates	0.00002
11210	Naphtha	0.005
11220	Motor gasoline (S=0.001%)	0.001
11230	Aviation gasoline	0.002
11310	Kerosene (jet fuel)	0.04
11320	Other kerosenes	0.07
11321	motor kerosene	0.07
11322	paraffin oil	0.02
11330	Diesel oil (S=0.001%)	0.001
11340	LFO (S=0.0915%)	0.0915
11350	Gasoil (for non-road use)	0.001
11390	Other medium distillates	0.12
11410	HFO (S<1%)	0.9
11420	HFO (normal, S>1%)	1.4
11430	Other heavy distillates	2.7
11500	Petroleum coke	1
11600	Recycled and waste oils	0.9
11601	Refined recycled and waste oils	0.9
11900	Other petroleum products	1
12110	Anthracite	1.5
12120	Hard coal, bituminous	0.8
12210	Semi-bituminous coal, brown coal, lignite	0.8
12220	Coal briquettes	2
12280	Coal tar	0.25
12290	Other non-specified coal	1
12300	Coke (S=1.0%)	1
12400	Coke oven gas	0.05
12500	Blast furnace gas	0.000001
12600	Converter gas	0.000001
13100	Natural gas	0.0001
21100	Milled peat	0.1
21200	Sod peat	0.11
21300	Peat pellets and briquettes	0.16
31100	Forest fuelwood	0.01
31110	Firewood (stems and split firewood)	0.015

31120	Chips from roundwood	0.01
31130	Forest residue chips	0.01
31210	Bark	0.0165
31220	Sawdust, cutter shavings etc.	0.0075
31230	Wood residue chips	0.008
31231	Plywood residues	0.018
31280	Unspecified industrial wood residue	0.012
31290	Other industrial wood residue	0.012
31301	Black liquor and other concentrated liquors	5
31302	sulphite waste liquor	5
31400	Other by-products from wood processing industry	0.018
31401	tall-oil pitch	0.5
31402	Metanol	1
31403	0-fibre/bio sludge	0.6
31404	Paper	0.038
31406	Odorous gases	15
31409	Other non-fossile liquid	2.5
31500	Recovered wood	0.15
31600	Wood pellets and briquettes	0.009
31700	Vegetable-based fuels	0.075
31800	Animal-based fuels	0.075
32110	Landfill gas	0.01
32120	Biogas from wastewater treatment	0.01
32130	Industrial biogas	0.01
32190	Other biogas (other non-fossile gas)	0.01
32200	Liquid biofuels	0.002
32311	Recovered fuels REF 1-waste sorted according to origin	0.14
32312	Recovered fuels REF 2-waste sorted according to origin	0.12
32313	Recovered fuels REF 3-waste sorted according to origin	0.1
32314	PDF-packaging waste	0.14
32315	RDF-municipal waste, mechanically sorted	0.22
32316	Municipal waste - unsorted	0.25
32320	Demolition wood	0.1
32331	Salt impregnated wood	0.02
32332	Creosote impregnated wood	0.07
32390	Other mixed fuels (other waste)	0.25
32391	Deinking waste	0.08
32400	Gasified waste	0.003
49110	Plastic waste	0.2
49120	Rubber waste	1.5
49130	Hazardous waste	0.1
49190	Other by-products and waste products (industrial waste)	1
49195	Suphur concentrate	10

49200	Exothermic heat from industry (other liquid)	0
49300	Secondary heat from industry	0
49800	Hydrogen	0.000001

Annex 7

Uncertainty Analysis

CONTENTS OF PART 3

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1.1 Methodology

Changes in chapter	
Update of text	April 2017 TF, KS
Other (e.g. language, layout)	April 2017 2016 KS

The uncertainty analysis for emission data is carried out at NFR subcategory 3 level for the actual emission sources. The method is Monte Carlo simulation (Tier 2) using @Risk software. The uncertainties of the input parameters are estimated by experts compiling the inventories and those of the measured emissions by the competent authorities that supervise emission monitoring carried out at the individual plants. The emissions of some pollutants from certain sources are poorly understood, for instance some POP compounds from fuel combustion and industrial processes, and therefore estimation of their uncertainty is found to be very challenging at the moment.

The uncertainty analysis covers all emission sources included in the inventory and represents thus the uncertainty of the reported emission data. The possible lack of completeness of emission sources is, however, not reflected in the uncertainty analysis. Information of the completeness of the inventory is presented in Chapter 2.8.

The uncertainty analysis is carried out at the country-level, i.e. uncertainties in emissions by region are not assessed.

Uncertainties are expressed as bounds of 95% confidence interval as percent relative to the mean value as recommended in the GPG.

In this uncertainty analysis, two different types of distributions are used. These are

- Normal distribution, which is used in case uncertainties are symmetrical and <±100%.
- Beta distribution, which are used in case uncertainty is asymmetric, because the upper boundary exceeded 100% (positively skewed Beta distribution)

In cases where positively skewed Beta distribution was used, the uncertainty was high the upper boundary (>100% and up to 1000%) lower boundary close to 0 (-100%) and mean significantly closer to the lower boundary than the higher one. The distribution function that fitted all these conditions was found to be Beta distribution (@Risk function RiskBetaGeneral) with parameters as specified below:

Alpha1=1 (this shape parameter was kept constant)
Alpha2 defined using mean, Alpha1 and min and max
Min=0
Max=upper boundary.

This distribution type was used for all positively skewed uncertainties. Examples of a RiskBetaGeneral functions are presented below in Figures 2.10 for a cases where the upper bound of uncertainty is +1000% and +120%, respectively. The distribution function is inside Excel's If-function (the user language is Finnish; JOS means IF).

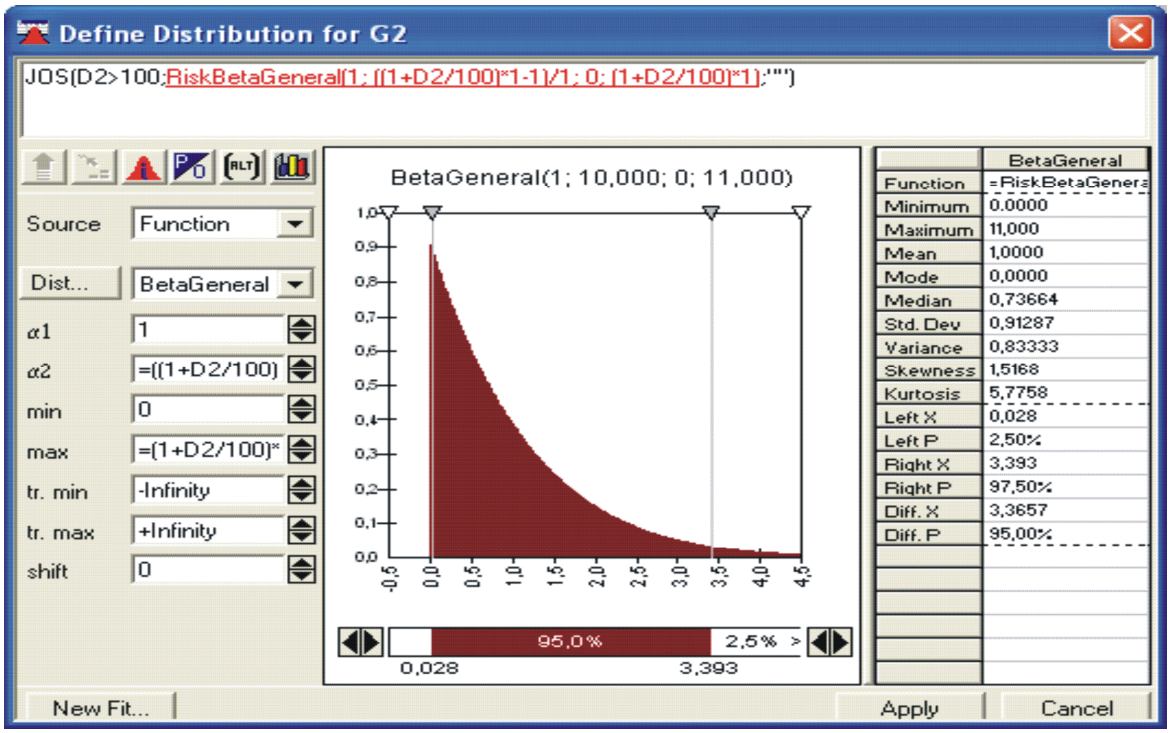

Figure 2.10. An example of the applied beta distribution. The function used can be seen on the top of the picture (JOS = IF in Finnish and cell D2 contains the uncertainty percentage).

The appropriate aggregation of data for the uncertainty analysis is important to avoid over- or underestimation of uncertainty due to correlations. The following assumptions are used in the aggregation level:

- Point source data reported by the plants: emission estimates reported by the operators are considered to be independent. Therefore, uncertainties have been applied separately to the emission estimates of each plant.
- Calculated emissions: Before calculation of uncertainty, those emission sources (e.g. point sources) having the same emission factor were grouped together, and the same uncertainty was applied to the whole group. This reflects the situation that the emission factor uncertainties are correlated across, for instance, different plants. This may overestimate uncertainty when the same emission factor is used for different plants and the real emissions vary notably between these plants (uncertainties potentially cancelling each others) because there are also other factors than technology and fuel affecting the emissions, such as plant operation.
- Emission factors are considered independent across the different sectors, technologies and fuels. This may underestimate uncertainties in the case the emission factors for different technologies are derived from the same data. It can roughly be assumed that this underestimation cancels potential overestimation presented in previous bullet.
- Emission estimates of different pollutants are considered to be independent.
- Activity data are considered to be independent.
- The fuel use uncertainties are the same Statistics Finland uses in the UC analysis for the Finnish greenhouse gas inventory. Thus the fuels are grouped - and the fuel consumption summed up - using the same grouping as Statistics Finland: Solid, Liquid, Gaseous, Biomass and Other fuels.

1.2 Uncertainty of the trend

Changes in chapter	
Update of text	April 2017 TF, KS
Other (e.g. language, layout)	April 2017 KS

Finland has not yet carried out a trend UC assessment due to inconsistency of methods used throughout the time series. However, the principles for such an analysis for the Finnish data are presented below.

For the purposes of the trend uncertainty analysis, the uncertainty of the base year emissions and the current year are needed. The base year depends on the emission compound as presented in the Table 2.1 below. To ensure comparability between compounds, the uncertainties have been estimated for the year 1990 for all the compounds.

Table 2.1. Base years for Finland for the pollutants regulated under the UNECE Convention of Long-Range Transboundary Air Pollution.

Compound	Base year
SO_2	1980
NO_x	1987
CO	1980 *
NH_3	1980 *
NMVOC	1988
HM	1990
TSP	2000 *
POP	1994

* For CO, NH_3 and TSP there is no Protocol base year but instead the year of

The methodology to be used for calculating the trend uncertainty will follow, when implemented, the assumptions listed below:

- activity data were estimated independent between years
- emission data reported by the plants were estimated independent between years
- emission factors were assumed to correlate between years in case the same emission factors were used, and uncertainties for both years were estimated equal
- emissions which were estimated using completely different system (e.g. emissions for the year 1980) were assumed independent from the latest year estimate
- to simplify the calculation and also due to lack of detailed data, partial correlations were not used

1.3 Point source data reported by the plants

Changes in chapter	
Update of text	April 2017 TF, KS
Other (e.g. language, layout)	April 2017 KS

Emissions of SO_2, NO_x and particulate matter (TSP) are generally included in the emission monitoring programmes of the plants. As this emission monitoring data is being supervised by competent authorities, they can be considered highly reliable.

Those plants that fall under the IPPC installation categories (Integrated Pollution Prevention and Control Directive) report also emissions included in the EPER (European Pollutant Release and Transfer Register) pollutant list. Uncertainty of the EPER pollutant data depend on the estimation method used (measured, calculated by national default emission factors or estimated by plant specific engineering calculations). The methods used in quantifying emissions and their uncertainties are not always known.

Sulphur dioxide, nitrogen oxide and particle emissions

The reporting obligations determined in the environmental permits or monitoring programmes of the plants for SO_2 NO_X and TSP stipulate the emission data production methods. The emission data reports are checked and approved by the supervising authorities and can therefore be considered to be the best known data in the inventory. Under NFR 1 around 95%, under NFR 2 and 3 100% and under NFR 6 around 20% of the emissions are reported by the plants.

For small particles, PM_{10} and $PM_{2,5}$, an additional uncertainty is caused by the uncertainty of coefficients used for deriving the small particle fractions from TSP values. This uncertainty is taken into account in the Monte Carlo analysis by adding a separate uncertainty percentage into the calculation: 150% for both PM_{10} and $PM_{2,5}$ in all emission sources. Black carbon fractions are derived from the $PM_{2.5}$ values, and therefore yet additional uncertainty of 100% in relation to $PM_{2.5}$ is added into the calculation for all black carbon emission sources.

Table 2.2. Uncertainties in SO_2, NO_X and TSP emission data reported by the plants for 1980, 1990 and 2015.

NFR category	SO_2			NO_X			TSP			
	1980	1990	2015	1987	1990	2015	1980	1990	2000	2015
NFR1 >50MW	NA	±10%	±10%	±10%	±10%	±10%	NA	±10%	±10%	±10%
NFR1 <50MW	NA	±15%	±15%	±20%	±20%	±20%	NA	±20%	±20%	±20%
NFR2	NA	±15%	±15%	±20%	±20%	±20%	NA	±20%	±20%	±20%
NFR2H1 TRS	NA	±25%	±25%	-	-	-	-	-	-	-
NFR5C >50MW	NA	±10%	±10%	±10%	±10%	±10%	NA	±10%	±10%	±10%
NFR5C<50MW	NA	±15%	±15%	±20%	±20%	±20%	NA	±20%	±20%	±20%

Carbon monoxide

Under NFR 1 around 12%, under NFR 2 100%, and under NFR 5 around 4% of the emissions are reported by the plants. Detailed reporting rates for the NFR subcategories are presented in Chapter 3.2. CO emissions are generally followed up as an operation control parameter and the emission data reports are checked and approved by the supervising authorities. Therefore plant-specific CO emission data can be considered rather accurate and the uncertainties are estimated to be at ±10% for plants > 50 MW. For smaller plants (<50 MW) the uncertainty is estimated at ±20%. The uncertainties in these emissions are estimated the same for both 1990 and 2015 (Table 2.3). Due to obvious recording mistakes in VAHTI for some plants, an uncertainty of 98% was used in those SNAP classifications to which these plants belong, however for the

majority of the plants the same uncertainty was applied as in the previous years.

Table 2.3. Uncertainties in CO emission data reported by the plants for 1980, 1990 and 2015.

NFR category	CO		
	1980	1990	2015
NFR 1, >50 MW	NA	10%	±10%
NFR 1, <50MW	NA	±20%	±20%
NFR 2	NA	±20%	±20%
NFR 5C, > 50 MW	NA	±10%	±10%
NFR 5C, < 50 MW	NA	±20%	±20%

NMVOC

Under NFR 1 around 10% under NFR 2 95%, under NFR 2D3 and 2G around 20% and under NFR 5 around 10% of the emissions are reported by the plants. Detailed reporting rates for the NFR subcategories are presented in Chapter 3.2.

Monitoring of NMVOC emissions is not very often included in the emission monitoring programmes of the plants and therefore the methods used by the plant operators to estimate their NMVOC emissions are not always known. The uncertainties in the NMVOC emission data reported by the plants varies between the different NFR categories depending on whether the emissions are based on direct emission measurements and/or plant specific emission factors or general national emission factors, as is the case in reporting to the EPER register. The NMVOC uncertainties for 1980, 1990 and 2011 are presented in Table 2.4.

Table 2.4. Uncertainties in NMVOC emission data reported by the plants for 1980, 1990 and 2015.

NFR category	NMVOC		
	1988	1990	2015
NFR 1	NA	±30%/NA	±30%
NFR 2	±100%	±100%	±100%
NFR 3	±100%	±100%	±100%
NFR 6	±30%	±30%	±30%

Ammonia

NFR 1: Ammonia emission data from combustion of fuels is based on measurements or plant specific emission factors and the uncertainty of these emissions is rather low.

NFR2: Ammonia emissions originate mainly from NFR 2C7 (production of non-ferrous metals). These emissions are based on the monitoring data from the plants but the determination method is unknown.

Table 2.5. Uncertainties in ammonia emission data reported by the plants for 1980, 1990 and 2015.

NFR category	NH_3		
	1980	1990	2015
NRF 1	NA	±30%	±30%
NFR 2	NA	±100%	±100%

Heavy metals

Operators in the energy production, industry and waste incineration sectors report heavy metals according to their monitoring programmes or under the EPER/PRTR programme. In the metal industry, the emission data is mainly based on plant specific emission factors and the uncertainty for this data can thus be estimated rather low. The percentage of emission data reported by the operators is presented in Chapter 3 in the sub-chapters dedicated to each pollutant.

Uncertainties in the reported mercury emissions are estimated larger than those of other heavy metals because the difficulty in estimation of the emission rate due to the partly gaseous form.

Table 2.6. Uncertainties in heavy metal emission data reported by the plants for 1990 and 2015

NFR category	HM		
	1980	1990	2015
NFR 1, other than Hg	NA	±30%	±30%
NFR 2, other than Hg	NA	±30%	±30%
NFR 3	NA	-100%...120%	-100%...120%
NFR 6C, other than Hg	NA	±30%	±30%
All NFRs, Hg	NA	±50%	±50%

POP compounds

Monitoring of PCDD/F, PAH-4 and HCB emissions may be included in the monitoring programmes of the plants or the plants report these emissions based on the requirement from the EPER or PRTR programme. At the moment, information of whether these reported data are based on actual measurements/plant specific emission factors or if the operators have calculated the data by the national emission factors, is not clearly recorded into the VAHTI database. Furthermore, measurements of POP emissions contain high uncertainties, especially because the emissions are low.

percentage of emission data reported by the operators is presented in Chapter 3 in the sub-chapters dedicated to each pollutant.

The estimated uncertainties are -X to +500% for NFR categories 1, 2 and 5 and –X to +600% for NFR categories 2D3 and 2G.

Table 2.7. Uncertainties in POP emission data reported by the plants for 1990, 1994 and 2015

NFR category	PCDD/F	PAH-4	HCB	PCB
NFR 1	-100% to +500%	-100% to +500%	-100% to +500%	-100% to +500%
NFR 2	-100% to +500%	-100% to +500%	-100% to +500%	-100% to +500%
NFR 2D3-2G	-100% to +600%	-100% to +600%	-100% to +600%	-
NFR 5	-100% to +500%	-100% to +500%	-100% to +500%	-100% to +500%

1.4 Uncertainties in emission data calculated in the emission inventory data system

Changes in chapter	
Update of text	April 2017 TF, KS
Other (e.g. language, layout)	April 2017 KS

For non-point sources the emission data has been calculated using activity data and emission factors, or, for some activities emission estimates or activity data provided by industrial associations, have been used.

Where emission data for non-point sources is calculated using bulk statistical data, the uncertainty is usually considered much higher than for the point source activity data reported by the plants. However, there are exceptions, such as fuel use statistics in the transport sector, which is considered highly accurate.

For point sources, part of the emission estimates have been calculated using activity data such as fuel consumption, use of products or production data. This data has been obtained directly from the plants or from the authorities.

The differences between the uncertainties of emission factors used for calculation of point source and non-point source emissions are considered smaller than the uncertainties for activity data.

1.5 Activity data uncertainties

Changes in chapter	
Update of text	May 2016 TF, KS
Other (e.g. language, layout)	May 2016 KS

Uncertainties in activity data are assumed to depend on the accuracy of reporting by the plants or on the representativeness of statistical data of the activities. The uncertainties of activity data are estimated typically much smaller than those of emission factors. As there are no or few changes in activity data collection, the uncertainty is estimated to be constant for all inventory years.

The uncertainty values used for large point sources and small point sources or non-point sources are estimated as follows:

- For the large installations that have both have the need and ability for accurate record keeping (based on e.g. quality management system requirements) the uncertainties are assumed rather small as presented in Tables 2.8-2.9.
- For smaller facilities and non-point sources the uncertainties are assumed largeras presented in Tables 2.10-2.14.

Table 2.8. Activity data uncertainties for fuel 2015.

NFR	Fuel type	Uncertainty 2015	Basis for UC evaluation
1A	Liquid Fuels	2 or 3 or 5 or 10	Energy balance / expert estimation
1A	Gaseous Fuels	1 or 2 or 3 or 5 or 10	Energy balance / expert estimation
1A1	Liquid Fuels	2 or 3 or 5	Expert estimation, Statistics Finland
1A1	Solid Fuels	1 or 2 or 3 or 5	Expert estimation, Statistics Finland
1A1	Gaseous Fuels	1 or 2 or 3 or 5 or 10	Expert estimation, Statistics Finland
1A1	Biomass	3 or 15	Expert estimation, Statistics Finland
1A1	Peat	2	Expert estimation, Statistics Finland
1A1	Other Fuels	15	Expert estimation, Statistics Finland
1A2	Liquid Fuels	2 or 5 or 10	Expert estimation, Statistics Finland
1A2	Solid Fuels	5	Expert estimation, Statistics Finland
1A2	Gaseous Fuels	2 or 3 or 5 or 10	Expert estimation, Statistics Finland
1A2	Biomass	10 or 15	Expert estimation, Statistics Finland
1A2	Peat	5	Expert estimation, Statistics Finland
1A2	Other Fuels	15	Expert estimation, Statistics Finland
1A3 a. Civil Aviation	Aviation Gasoline and Jet Kerosene	20	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 b. Road Transportation	Gasoline	2	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 b. Road Transportation	Diesel Oil	1	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 b. Road Transportation	Natural Gas	3	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 c. Railways	Liquid Fuels	5	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 d. Navigation	Residual Oil & Gas / Diesel oil	10	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A3 d. Navigation	Gasoline	20	Expert estimation, Statistics Finland / Technical Research Centre of Finland
1A4	Liquid Fuels	15	Expert estimation, Statistics Finland
1A4	Solid Fuels	30	Expert estimation, Statistics Finland
1A4	Gaseous Fuels	30	Expert estimation, Statistics Finland
1A4	Biomass	20	Expert estimation, Statistics Finland
1A4	Peat	30	Expert estimation, Statistics Finland
1A4	Other Fuels	25	Expert estimation, Statistics Finland
1A5	Liquid Fuels	15	Expert estimation, Statistics Finland
1A5	Gaseous Fuels	12	Simulated
1A5	Biomass	20	Expert estimation, Statistics Finland
1A5	Other Fuels	25	Expert estimation, Statistics Finland
1A5	Peat	30	Expert estimation, Statistics Finland

Table 2.9. Activity data (raw material/production rates) uncertainties for point sources (emissions calculated in the inventory data system) for 1980, 1990 and 2015.

NFR category	Activity data uncertainty		
	1980's	1990's	2000's
NFR 2	NA	±10%	±10%

Table 2.10. Activity data uncertainties for fuel consumption in non-point sources (emissions calculated in the inventory data system) for 1980, 1990 and 2015.

Input	NFR category	Activity data uncertainty 1980's	Activity data uncertainty 1990	Activity data uncertainty 2015
Light Fuel Oil	1A2gviii	(will be filled in to the next submission)	± 5 %	± 5 %
Natural Gas	1A2gviii		± 3 %	± 3%
Wood	1A2gviii		± 15 %	± 10 %
Liquid Gas	1A2gviii		± 5 %	± 5 %
Heavy Fuel Oil	1A2gviii		± 5 %	± 5 %
Sod Peat	1A2gviii		± 10 %	± 10 %
Industrial Petrol	1A2gviii		± 2 %	± 5 %
Light Fuel Oil	1A4ai		± 35 %	± 15 %
Natural Gas	1A4ai		± 5 %	± 5 %
Sod Peat	1A4ai		± 25 %	± 30 %
Liquid Gas	1A4ai		± 30 %	± 30 %
Wood	1A4ai		± 20 %	± 20 %
Heavy Fuel Oil	1A4ai		± 30 %	± 15 %
Light Fuel Oil	1A4bi		± 30 %	± 15 %
Black Coal	1A4bi		± 10 %	± 20 %
Natural Gas	1A4bi		± 5 %	± 5 %
Liquid Gas	1A4bi		± 30 %	± 30 %
Sod Peat	1A4bi		± 30 %	± 30 %
Heavy Fuel Oil	1A4bi		± 15 %	± 15 %
Wood	1A4bi		± 20 %	± 20 %
Other fuels	1A4bi		± 25 %	± 25 %
Diesel oil	1A4bi		± 15 %	± 15 %
Motor gasoline	1A4bii		± 15 %	± 15 %
Light Fuel Oil	1A4ci		± 30 %	± 15 %
Natural Gas	1A4ci		± 5 %	± 5 %
Liquid Gas	1A4ci		± 5 %	± 30 %
Sod Peat	1A4ci		± 25 %	± 30 %
Heavy Fuel Oil	1A4ci		± 30 %	± 15 %
Wood	1A4ci		± 20 %	± 20 %
Light Fuel Oil	1A4cii		± 15 %	± 15 %
Industrial Petroleum	1A4cii		± 30 %	± 10 %
Light Fuel Oil	1A4ciii		± 10 %	± 10 %
Jet Fuel	1A5b		± 50 %	± 30 %
Motor Petroleum	1A5b		± 50 %	± 50 %

Table 2.11. Activity data uncertainties for <u>transport fuels</u>: <u>non-point</u> emissions calculated in the inventory data system for 1980, 1990 and 2015.

Input	NFR category	Activity data uncertainty 1980	Activity data uncertainty 1990	Activity data uncertainty 2015
Jet Fuel (aviation)	1A3ai(i)	(will be filled in to the next submission)	± 20 %	± 20 %
Jet Fuel (aviation)	1A3ai(ii)		± 20 %	± 20 %
Jet Fuel (aviation)	1A3aii(i)		± 20 %	± 20 %
Motor Petroleum (aviation)	1A3aii(ii)		± 50 %	± 50 %
Diesel Oil (road transport)	1A3bi		± 1 %	± 1 %
Motor Petroleum (road transport)	1A3bi		± 2 %	± 2 %
Natural Gas (road transport)	1A3bi		± 3 %	± 3 %
Diesel Oil (road transport)	1A3bii		± 1 %	± 1 %
Motor Petroleum (road transport)	1A3bii		± 2 %	± 2 %
Natural Gas (road transport)	1A3bii		± 3 %	± 3 %
Diesel Oil (road transport)	1A3biii		± 1 %	± 1 %
Natural Gas (road transport)	1A3biii		± 3 %	± 3 %
Diesel Oil (road transport)	1A3biv		± 1 %	± 1 %
Motor Petroleum (road transport)	1A3biv		± 1 %	± 1 %
Light Fuel Oil (railways)	1A3c		± 5 %	± 5 %

Light Fuel Oil (navigation)	1A3dii		± 10 %	± 10 %
Motor Petroleum (navigation)	1A3dii		± 10 %	± 10 %
Heavy Fuel Oil (navigation)	1A3dii		± 10 %	± 10 %
Light Fuel Oil (off-road)	1A4aii		± 30 %	± 15 %
Liquid Gas (off-road)	1A4aii		± 30 %	± 30 %
Motor petroleum (off-road)	1A4aii		± 5 %	± 5 %
Light Fuel Oil (off-road)	1A2gvii		± 5 %	± 5 %
Motor petroleum (off-road)	1A2gvii		± 30 %	± 5 %
Jet Fuel	1A5b		± 50 %	± 30 %
Motor Petroleum	1A5b		± 50 %	± 50 %

Table 2.12. Activity data (raw material/production rates) for non-point sources in 1980, 1990 and 2015.

NFR category	1980	1990	2015
NFR 2	NA	±30%	±30%

Table 2.13. Activity data uncertainties for livestock population and fertilizer consumption 1980, 1990 and 2015 (Monni et al.i, 2003).

Input	1980	1990	2015
Livestock population	NA	±5%	±3%
N content in the synthetic fertilisers	NA	±10%	±10%

Table 2.14. Activity data uncertainties for landfilled waste and wastewater treatment in 1980, 1990 and 2015 (according to Monni et al., 2003 and Monni, 2004).

Input	1980	1990	2015
NFR 5A landfilled MSW	NA	±30%	±15%
NFR 5A landfilled industrial solid waste	NA	±30%	±15%
NFR 5D, industrial wastewater, COD	NA	±10%	±10%
NFR 5D, domestic wastewater, BOD, densely populated areas	NA	±10%	±10%
NFR 5D, domestic wastewater, BOD, sparsely populated areas	NA	±15%	±15%

For NFR 2 categories the uncertainties are expressed as combined figures including both the emission factor and activity data uncertainties.

1.6 Uncertainties in emission factors

Changes in chapter	
Update of text	April 2017 TF, KS
Other (e.g. language, layout)	April 2017 HS

SO_2, NO_X and TSP

The SO_2, NO_x and TSP emissions are estimated from technology and fuel specific emission factors.

For those point sources where no SO_2, NO_X or TSP emission data is reported by the operators, the emissions are calculated from activity data and emission factors. For point sources, the calculated default emission is always replaced by emission data reported by the operator, if this is available. Only in cases when the operator has not reported emission data for the specific boiler or process, the default data will be used[1].

[1] The percentages of data reported by the plants and calculated in the inventory data system are presented in Finnish IIR Part 1 Chapter 3 under the subchapters of each pollutant.

The uncertainty in SO_2 emission factors was estimated at ±20% for 2014 and ±30% for 1990 for oil and gas, as sulphur content of these fuels is relatively well know. The uncertainty es estimated somewhat larger, ±40% for coal, peat and biomass.

The uncertainty in NO_x emissions was estimated ±50% for all emission factors in stationary combustion.

The uncertainty in TSP emissions was estimated larger for combustion of coal, peat and biomass (±60%) for 1A1 and 1A2 than for oil and gas combustion (±50%). The difference in uncertainties between fuels was estimated larger for 1A4 and 1A5: ±50% for oil and gas and ±80% for coal, biomass and peat.

The uncertainty values for emission factors are presented in Table 2.15.

Table 2.15. Uncertainties in SO_2, NO_X and TSP emission factors (EF) in calculation of point and diffuse source emissions for 1990 and 2015.

NFR category	SO_2 Uncertainty			NO_X Uncertainty			TSP Uncertainty			
	1980	1990	2015	1980	1987, 1990	2015	1980	1990	2000	2015
NFR 1A1, NFR 1A2: oil, gas	NA	±30%	±20%	NA	±50%	±50%	NA	±50%	±50%	±50%)
NFR 1A1, 1A2: coal, biomass, peat	NA	±40%	±40%	NA	±50%	±50%	NA	±60%	±60%	±60%
NFR 1A3	NA	±50%	±50%	NA	±50%	±50%	NA	±50%	±50%	±50%
NFR 1A4, 1A5: oil, gas	NA	±30%	±20%	NA	±50%	±50%	NA	±50%	±50%	±50%
NFR 1A4, 1A5: coal, biomass, peat	NA	±40%	±40%	NA	±50%	±50%	NA	±80%	±80%	±80%
NFR 1B1a (peat production)	NA	NA	NA	NA	NA	NA	NA	-100 to +1000%	-100 to 1000%	-100 to +1000%
NFR 3	NA	NA	NA	NA	NA	-100 to +200%	NA	-100 to +1000%	-100 to +1000 %	-100 to +1000%
NFR 5C	NA	±30%	±20%		±50%	±50%	NA	±50%	±50%	±50%

NFR 1A1 and 1A2: The majority of the plants included in these categories report their SO_2, NO_X and TSP emissions

NFR 1A3: The emission estimates for particular matter from transportation are based on emission factors, the uncertainty of which is estimated at ± 50%.

NFR 1A4 and 1A5: The emission estimates are calculated with emission factors and activity data.

NFR 1B3: The estimates of particle emissions from peat production are poorly understood. Therefore, the uncertainty is estimated to be very large, i.e. –100 to +1000%. NO_x emissions from manure management were added to the 2017 submission. However, the uncertainty estimates from manure management are considered very rough. More reliable estimates will be developed in the future submissions..

NFR 3: The estimates of particle emissions from agriculture are poorly understood. Therefore, the uncertainty is estimated to be very large, i.e. –100 to +1000%.

NFR 5C: The majority of the plants included in these categories report their SO_2, NO_X and TSP emissions.

Note: As mentioned in chapter 1.3, calculation of particle size fractions from total suspended particles introduces additional uncertainty to the emission estimates of the smaller size fractions. However, the uncertainty originating from the allocation of TPS emissions into the different size categories is not estimated presently.

Heavy metals

The uncertainties in heavy metal emission factors are estimated at ±80% for stationary combustion (1A1, 1A2, 1A4), waste incineration (5C) and industrial processes (2). Uncertainties are estimated somewhat larger (±100%) for transportation (1A3) and NFR categories 2D3 and 2G.

Table 2.16. Uncertainty estimates in heavy metal emission factors for 1990 and 2015.

NFR category	HM	
	1990	2015
NFR 1A1, 1A2, 1A4	±80%	±80%
NFR 1A3	±100%	±100%
NFR 2	±80%	±80%
NFR 2D3 and 2G	±100%	±100%
NFR 5C	±80%	±80%

NMVOC

Uncertanties in NMVOC emission factors are estimated as presented in Table 2.17

Table 2.17. Uncertainties in NMVOC emission factors for 1988, 1990 and 2015.

NFR category	NMVOC		
	1988	1990	2015
NFR 1A1, 1A2	±80%	±80%	±80%
NFR 1A3	±80%, gasoline evaporation ±100%	±80%, gasoline evaporation ±100%	±80%, gasoline evaporation ±100%
NFR 1A4	±80%	±80%	±80%
NFR 1B	±100%	±100%	±100%
NFR 2	±80%	±80%	±80%
NFR 2D3 and 2G	-100% to +200%	-100% to +200%	-100% to +200%
NFR3	NA	NA	-100% to +200%
NFR 5A, 5D	-100% to + 200%	-100% to + 200%	-100% to + 200%

NFR 1A: NMVOC emissions calculated in the emission inventory data system for stationary fuel combustion are estimated by using technology-specific emission factors, the uncertainty of which is estimated to be at ±80% for 1988, 1990 and 2015.

NFR 1A3 NMVOC emissions from the traffic sector are calculated by subtracting the estimate of methane emissions from the estimate of the total emissions of hydrocarbons. The Finnish traffic calculation model LIPASTO provides emission estimates for both hydrocarbons and methane for the different traffic sectors. The uncertainty in the NMVOC emissions is assumed to be ±80%[2].

[2] The UC estimate could be based on the uncertainty of CH_4 and total organic carbon TOC, and the uncertainty of fuel consumption

NFR 1B Uncertainties in the fugitive emissions from fuels (NFR 1B) are estimated somewhat larger, i.e. ±100%.

NFR 2 uncertainties are estimated at ±80%.

NFR 2D3 and 2G NMVOC emissions from NFR 3 are derived from many different sources. The emission estimates are considered to contain rather large uncertainties, i.e. from -100 to +200% for 1988, 1990 and 2015

NMVOC emissions from manure management were added to the 2017 submission. However, the uncertainty estimates from manure management are considered very rough. More reliable estimates will be developed in the future submissions.

NFR 5A Emissions for NMVOC emissions from landfills and wastewater treatment have been estimated for the first time for 2006 emissions.

CO

CO emissions are generated during incomplete combustion and vary notably between different combustion processes, fuels and even in case of the same boiler, according to temporary boiler conditions. Therefore, uncertainties in the calculated CO emission factors are estimated relatively large, i.e. ±70%, as presented in Table 2.18. Carbon monoxide from stationary combustion and waste incineration are estimated by using emission factors and activity data for those plants that do not report the emissions.

Table 2.18. Uncertainties in CO emission factors in 1980, 1990 and 2015.

NFR category	CO		
	1980	1990	2015
NFR 1A1, 1A2	NA	±70%	±70%
NFR 1A3	NA	±70%	±70%
NFR 1A4	NA	±70%	±70%
NFR 5C	NA	±70%	±70%

NH3

NFR 1A3 Emission factors for ammonia are based on ammonia emission factors used in the other Nordic countries and adopted to Finnish conditions through and expert estimation at Technical Research Centre of Finland VTT, which is the expert institute for transport sector emissions in Finland.

NFR 3 Research on agricultural NH_3 emissions has been carried out rather extensively in Finland and globally. Country-specific emission factors taking into account Finnish agricultural practices are used in estimation of emissions. The present NH_3 emission factors take into account various issues on which the emission depend, for instance, animal types, manure treatment and animal feeding methods and fertilization practices. However, natural variability in these emission sources is large, and therefore, uncertainty of -61% to +186% is estimated for emission factors in agriculture for *2015*, for details see Grönroos et al., 2009. Uncertainty in 1990 is previously estimated somewhat lower, ±50%, as the old emission factors were based on estimate published in 1995. The 1990 uncertainties of NH_3 will be re-evaluated parallel with the update of the time series.

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if there would be an estimate for the uncertainty of the TOC.

Table 2.19. Uncertainties in NH_3 emission factors 1980, 1990 and 2015.

NFR category	NH_3		
	1980	1990	2015
NFR 1A3	NA	±100%	±100%
NFR 3	NA	±50%	-61% to +186%

POP

POP emissions are estimated with using emission factors from different data sources, such as EMEP/EEA Emission Inventory Guidebook, domestic research or international literature. POP emissions from non-point sources are estimated very uncertain, -100% to +1000% and the same value is used for 1990, 1994 and 2015. (Table 2.20)

Table 2.20 Uncertainty for POP emission factors in 1990, 1994 and 2015

NFR	PCDD/F	PAH-4	HCB	PCB	PCP
NFR 1A1, 1A2, 1A4	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%
NFR 1A3	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%
NFR 2	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%
NFR 2D3 and 2G	-100 to +1000%	-100 to +1000%	-100 to +1000%	-	-
NFR 3	-	-	-100 to +1000%	-	-
NFR 5C	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%	-100 to +1000%

1.7 QC and planned improvements in uncertainty estimation

For the majority of the calculated data, uncertainties of activity data and emission factors have been defined separately. In the industrial processes sector, uncertainties of emission data reported by the plants have used.

To enable estimating real time uncertainties re-evaluation of uncertainties is carried out every 5th year for activity data and emission factors as well as for emission data reported by the plants.

The following QA/QC procedures were carried out for the uncertainty analysis in 2009 (2007 data):

- All uncertainty estimates used in the previous submission were evaluated by an external consultant[3], and many of the estimates were revised in collaboration with the inventory agency.
- The uncertainty estimates were compared to uncertainty estimates presented the Good Practice Guidance for CLRTAP Inventories.
- Order-of-magnitude comparisons were carried out with other data sources and uncertainty analysis documentations provided by other parties to the CLRTAP conventions.
- Results of these QA/QC procedures lead to changes in some of the inventory uncertainty estimates when compared with the previous submission.

In 2013 for 2011 data uncertainty percentages of activity data, emission factors and emission data reported by the plants were re-evaluated and it was considered that there was no need to change the uncertainty percentages.

In 2016 uncertainty values for fuels were updated to correspond to those used in the Finnish greenhouse gas inventory.

The uncertainty assessment of the trend will be included when the on-going work of recalculating emissions for the period 1990-1999 has been finalized.

[3] Suvi Monni from Benviroc Ltd

1.8 Uncertainties by pollutants

Changes in chapter	
Update of figures	April 2017, TF, JP
Update of text	May 2016 TF, KS
Other (e.g. language, layout)	May 2016 KS

Uncertainties for all pollutants in 2015 are presented in Table 2.21 by pollutant.

Uncertainties by pollutant and NFR category are presented for main pollutants (sulphur oxides, nitrogen oxides, ammonia, non-methane volatile organic compounds and carbon monoxide) in Tables 2.22 - 2.30, for partiles (black carbon, small particles <2.5 and <10 and total suspended particles) in Tables 2.31 - 2.38 and for persistent organic compounds (hexachlorobenzene, polyaromatic hydrocarbons, polychlorinated biphenyls, polychlorinated dioxins and furanes) in Tables 2.39 - 2.42.

Table 2.21 Total uncertainty of the 2015 emission data by pollutant.

Compound	Uncertainty*	
	Lower, %	Upper,%
Nitrogen oxide	-12	13
Sulphur dioxide	-5	5
Carbon monoxide	-27	29
NMVOC	-24	26
Ammonia[4]	*-43*	*54*
Particulate matter (TSP)	-23	23
Lead	-29	29
Cadmium	-29	29
Mercury	-19	19
Arsenic	-25	25
Chromium	-25	26
Copper	-76	76
Nickel	-16	16
Zinc	-31	32
Hexachlorobenzene	-74	118
Dioxins and furans	-40	53
Polyaromatic hydrocarbons	-81	199
Polychlorinated biphenyls	-61	109
Pentachlorophenol (2011)	-91	233

*Expressed as upper and lower bounds of the 95% confidence interval relative to the mean value.

The improvements carried out in the inventory, especially after 2010, are not reflected in the uncertainties as the uncertainty percentages have not been re-evaluated. The inventory improvement programme has intensified since 2010 in checking of the completeness, consistency and correctness of the calculations and input data and the correspondence of methodologies to Finnish circumstances. However, due to the pending energy sector time series recalculation, it has been possible to include in the programme only non-energy related emissions. A complete renewal of the uncertainty analysis will be carried out when the energy sector timeseries has been recalculated and emission factors in the energy sector updated and the recalculation of the whole timeseries for all pollutants finalized.

[4] Note: the uncertainty estimates (percentages) in calculation of NH3 uncertainty were not updated. However, due to improved information and data of the ammonia inventory in 2013-2016 the uncertainty percentages should be re-evaluated. It is likely that the re-evaluation lowers the uncertainties.

Uncertainties of Main Pollutants NH_3, CO, NOx, NMVOC, and SOx

Table 2.22 Uncertainties in Ammonia (NH_3) emissions by NFR categories in 2015 data

Note: the uncertainty estimates (percentages) in calculation of NH3 uncertainty were not updated. However, due to improved information and data of especially the agricultural and small scale combustion ammonia inventories in 2013-2016, as well as the inclusion of new and missing sources in 2015, the uncertainty percentages should be re-evaluated. It is likely that the re-evaluation lowers the uncertainties.

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-31	30	1B1b	-81	93	3B4gi	-97	148
1A2gvii	-80	80	2B10a	-100	100	3B4gii	-97	147
1A3bi	-57	57	2C7b	-100	101	3B4giii	-97	148
1A3bii	-52	51	2C7c	-99	101	3B4giv	-97	146
1A3biii	-56	57	2D3g	-83	88	3B4h	-97	147
1A3biv	-54	55	2D3i	-101	100	3Da1	-41	43
1A3c	-81	81	2G	-101	117	3Da2a	-97	175
1A3dii	-81	82	2H1	-100	101	3Da2b	-100	113
1A4ai	-81	86	2L	-101	100	3Da3	-97	175
1A4aii	-68	69	3B1a	-96	147	3F	-102	113
1A4bi	-81	88	3B1b	-97	148	5B1	-97	162
1A4bii	-80	83	3B2	-97	148	5C1a	-100	100
1A4ci	-81	85	3B3	-97	147	5D1	-100	100
1A4cii	-81	83	3B4d	-97	148	5E	-100	242
1A4ciii	-80	82	3B4e	-97	147	Total	-43	54

Table 2.23 Uncertainties in Carbon monoxide (CO) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-49	49	1A3bi	-67	68	1A4cii	-71	74
1A1b	-28	29	1A3bii	-51	51	1A4ciii	-71	72
1A2a	-38	38	1A3biii	-71	71	1A5a	-58	66
1A2b	-37	38	1A3biv	-69	69	1A5b	-56	67
1A2c	-55	56	1A3c	-71	71	2C1	-20	20
1A2d	-48	48	1A3dii	-71	72	2C7a	-21	20
1A2e	-46	46	1A3ei	-70	70	2G	-101	117
1A2f	-28	28	1A4ai	-39	41	2I	-20	21
1A2gvii	-71	71	1A4aii	-67	67	3F	-100	112
1A2gviii	-62	63	1A4bi	-70	76	5C1a	-20	20
1A3ai(i)	-71	77	1A4bii	-70	73	Total	-27	29
1A3aii(i)	-71	76	1A4ci	-54	58			

Table 2.24 Uncertainties in Nitrogen oxides (NOx) emissions by NFR categories in 2015

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-9	9	1A3ei	-21	21	3B1a	-97	153
1A1b	-16	16	1A4ai	-34	35	3B1b	-97	154
1A2a	-19	19	1A4aii	-47	51	3B2	-97	153
1A2b	-16	16	1A4bi	-42	45	3B3	-97	152
1A2c	-20	20	1A4bii	-51	55	3B4d	-97	153
1A2d	-9	9	1A4ci	-34	36	3B4e	-97	154
1A2e	-19	19	1A4cii	-52	55	3B4gi	-97	152
1A2f	-20	20	1A4ciii	-50	52	3B4gii	-97	155
1A2gvii	-50	51	1A5a	-53	62	3B4giii	-97	153
1A2gviii	-24	24	1A5b	-63	80	3B4giv	-97	152
1A3ai(i)	-52	57	1B2av	-21	20	3B4h	-97	155
1A3aii(i)	-52	57	2B10a	-20	20	3Da1	-100	101
1A3bi	-36	36	2B10b	-21	20	3Da2a	-97	179
1A3bii	-49	48	2B2	-20	20	3Da3	-97	180
1A3biii	-51	51	2C1	-20	21	3F	-101	112
1A3biv	-43	43	2C7c	-20	20	5C1a	-20	21
1A3c	-51	51	2G	-100	117	5C1bi	-21	20
1A3dii	-51	52	2L	-20	20	Total	-12	13

Table 2.25 Uncertainties in Non-Methane Volatile Organic Compounds (NMVOC) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-35	35	1A4ciii	-81	81	2H2	-82	92
1A1b	-26	26	1A5a	-72	81	2I	-61	65
1A2a	-51	51	1A5b	-77	100	2L	-99	100
1A2b	-38	37	1B1b	-81	82	3B1a	-97	153
1A2c	-27	27	1B2aiv	-42	41	3B1b	-97	153
1A2d	-48	48	1B2av	-94	98	3B2	-97	153
1A2e	-62	63	2A1	-63	64	3B3	-97	153
1A2f	-28	28	2A3	-100	101	3B4d	-97	153
1A2gvii	-81	80	2B10a	-72	72	3B4e	-97	153
1A2gviii	-46	46	2B10b	-101	100	3B4gi	-97	153
1A3ai(i)	-81	86	2C1	-72	72	3B4gii	-97	155
1A3aii(i)	-80	86	2C2	-100	100	3B4giii	-97	153
1A3bi	-73	73	2C6	-81	82	3B4giv	-97	155
1A3bii	-68	69	2C7a	-100	99	3B4h	-97	155
1A3biii	-80	81	2C7b	-101	101	3Da2a	-97	177
1A3biv	-77	77	2C7c	-71	71	3Da3	-97	180
1A3bv	-97	151	2D3a	-97	157	3De	-100	113

1A3c	-81	81	2D3b	-81	94	3F	-101	112
1A3dii	-81	83	2D3c	-81	92	5A	-97	156
1A3ei	-80	80	2D3d	-73	102	5B1	-97	159
1A4ai	-47	49	2D3e	-95	154	5B2	-97	155
1A4aii	-68	69	2D3g	-71	81	5C1a	-37	46
1A4bi	-80	86	2D3h	-66	68	5C1bi	-71	96
1A4bii	-81	84	2D3i	-89	160	5D1	-92	147
1A4ci	-72	81	2G	-97	170	5D2	-97	155
1A4cii	-81	85	2H1	-70	71	Total	-24	26

Table 2.26 Uncertainties in Sulphur oxides (SOx, calculated as SO_2) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-9	9	1A3biii	-50	51	2B10a	-15	15
1A1b	-13	13	1A3biv	-48	49	2B10b	-15	16
1A2a	-14	14	1A3c	-50	51	2C1	-16	15
1A2b	-15	15	1A3dii	-51	52	2C7a	-15	16
1A2c	-15	15	1A3ei	-21	21	2C7b	-15	15
1A2d	-9	9	1A4ai	-22	24	2C7c	-16	16
1A2e	-14	14	1A4aii	-37	39	2D3i	-25	25
1A2f	-15	15	1A4bi	-20	22	2G	-100	117
1A2gvii	-51	51	1A4bii	-50	54	2H1	-15	15
1A2gviii	-16	16	1A4ci	-24	27	2L	-22	22
1A3ai(i)	-52	57	1A4cii	-52	55	3F	-101	113
1A3aii(i)	-51	57	1A4ciii	-51	52	5C1a	-16	15
1A3bi	-39	39	1A5a	-22	24	5C1bi	-15	16
1A3bii	-49	49	1A5b	-63	80	Total	-5	5

Uncertainties in particle emissions: BC, PM2.5, PM10 and TSP

Table 2.27 Uncertainties in BC emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-85	112	1A3bvii	-100	249	2B10a	-97	211
1A1b	-96	136	1A3c	-101	249	2C1	-87	111
1A2a	-96	135	1A3dii	-101	249	2C2	-96	137
1A2b	-96	136	1A4ai	-87	171	2C7a	-96	137
1A2c	-96	135	1A4aii	-92	166	2D3b	-100	438
1A2d	-96	136	1A4bi	-96	239	2D3i	-93	131
1A2e	-97	135	1A4bii	-100	250	2G	-100	434
1A2f	-96	136	1A4ci	-92	223	2H1	-89	119
1A2gvii	-101	250	1A4cii	-101	253	3F	-109	313
1A2gviii	-89	192	1A4ciii	-100	250	5C1a	-96	136
1A3bi	-96	221	1A5a	-88	156	5C1bi	-96	136
1A3bii	-100	247	1A5b	-100	269	5C1bv	-100	432
1A3biii	-101	247	2A2	-86	120	5E	-101	437
1A3biv	-96	217	2A3	-96	137	Total	-58	99
1A3bvi	-101	245						

Table 2.28 Uncertainties in Small particles PM2.5 emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-85	111	1A4ci	-85	162	2D3g	-88	116
1A1b	-96	137	1A4cii	-96	167	2D3i	-93	131
1A2a	-96	137	1A4ciii	-97	165	2G	-100	368
1A2b	-96	135	1A5a	-83	116	2H1	-88	118
1A2c	-96	136	1A5b	-97	192	2H2	-92	307
1A2d	-96	136	1B1c	-101	225	2I	-91	126
1A2e	-96	136	1B2av	-87	120	2L	-89	146
1A2f	-96	136	2A2	-86	120	3B1a	-100	363
1A2gvii	-97	164	2A3	-96	135	3B1b	-100	358
1A2gviii	-80	132	2A5a	-91	312	3B3	-100	363
1A3ai(i)	-97	170	2A5b	-99	363	3B4e	-100	362
1A3aii(i)	-97	169	2A5c	-100	362	3B4gi	-100	365
1A3bi	-89	146	2B10a	-97	208	3B4gii	-100	363
1A3bii	-97	164	2B10b	-99	362	3B4giii	-100	358
1A3biii	-97	165	2B6	-100	222	3B4giv	-100	364
1A3biv	-88	144	2C1	-87	114	3Da1	-101	223
1A3bvi	-97	165	2C2	-96	135	3Dc	-100	359
1A3bvii	-97	165	2C6	-100	221	3F	-101	233
1A3c	-97	165	2C7a	-96	135	5C1a	-96	137
1A3dii	-97	166	2C7c	-96	135	5C1bi	-96	136
1A4ai	-78	117	2C7d	-100	369	5C1bv	-100	368
1A4aii	-83	114	2D3b	-100	365	5E	-100	369
1A4bi	-89	176	2D3d	-97	210	Total	-44	59
1A4bii	-97	168	2D3e	-100	223			

Table 2.29 Uncertainties in Small particles PM10 emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-85	112	1A4ci	-85	161	2D3g	-88	116
1A1b	-96	136	1A4cii	-97	165	2D3i	-93	131
1A2a	-96	136	1A4ciii	-97	165	2G	-100	367
1A2b	-96	137	1A5a	-82	114	2H1	-89	118
1A2c	-96	136	1A5b	-97	189	2H2	-92	302
1A2d	-96	136	1B1c	-100	224	2I	-91	125
1A2e	-97	136	1B2av	-86	121	2L	-89	149
1A2f	-97	137	2A2	-86	121	3B1a	-100	363
1A2gvii	-97	165	2A3	-97	136	3B1b	-100	365
1A2gviii	-80	132	2A5a	-91	311	3B3	-100	361
1A3ai(i)	-97	169	2A5b	-99	362	3B4e	-100	361
1A3aii(i)	-97	168	2A5c	-100	371	3B4gi	-100	363
1A3bi	-89	146	2B10a	-97	210	3B4gii	-100	363
1A3bii	-97	165	2B10b	-99	368	3B4giii	-100	358
1A3biii	-97	164	2B6	-100	224	3B4giv	-100	361
1A3biv	-88	144	2C1	-87	114	3Da1	-101	223
1A3bvi	-97	165	2C2	-96	137	3Dc	-100	356
1A3bvii	-97	165	2C6	-100	223	3F	-100	232
1A3c	-97	164	2C7a	-96	137	5C1a	-96	134
1A3dii	-97	165	2C7c	-96	136	5C1bi	-96	136
1A4ai	-78	118	2C7d	-100	369	5C1bv	-100	359
1A4aii	-83	114	2D3b	-100	373	5E	-100	374
1A4bi	-89	172	2D3d	-97	209	Total	-44	58
1A4bii	-96	166	2D3e	-100	224			

Table 2.30 Uncertainties in Total Suspended Particles (TSP) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-16	17	1A4ci	-63	72	2D3g	-25	25
1A1b	-21	20	1A4cii	-51	55	2D3i	-20	20
1A2a	-20	21	1A4ciii	-51	53	2G	-98	253
1A2b	-20	21	1A5a	-33	38	2H1	-24	24
1A2c	-21	20	1A5b	-63	80	2H2	-84	206
1A2d	-21	21	1B1c	-100	102	2I	-21	21
1A2e	-20	20	1B2av	-46	46	2L	-64	64
1A2f	-21	21	2A2	-46	45	3B1a	-98	239
1A2gvii	-50	51	2A3	-21	21	3B1b	-98	237
1A2gviii	-45	46	2A5a	-83	210	3B3	-98	242
1A3ai(i)	-52	57	2A5b	-97	242	3B4e	-98	242
1A3aii(i)	-52	57	2A5c	-98	249	3B4gi	-98	240
1A3bi	-45	45	2B10a	-94	94	3B4gii	-98	238
1A3bii	-50	51	2B10b	-97	248	3B4giii	-98	242
1A3biii	-51	51	2B6	-99	100	3B4giv	-98	242
1A3biv	-45	45	2C1	-35	35	3Da1	-101	102
1A3bvi	-50	50	2C2	-20	20	3Dc	-98	237
1A3bvii	-51	50	2C6	-100	100	3F	-100	113
1A3c	-50	51	2C7a	-20	20	5C1a	-20	20
1A3dii	-50	52	2C7c	-21	20	5C1bi	-21	21
1A4ai	-39	41	2C7d	-98	245	5C1bv	-98	243
1A4aii	-36	37	2D3b	-98	246	5E	-98	249
1A4bi	-69	74	2D3d	-94	95	Total	-23	23
1A4bii	-51	55	2D3e	-101	101			

Uncertainties of Heavy Metals

Table 2.31 Uncertainties in Arsenic (As) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-50	50	1A3biv	-99	99	2C2	-30	31
1A1b	-80	80	1A3bvi	-101	101	2C6	-100	101
1A2a	-29	29	1A3dii	-101	102	2C7a	-30	30
1A2b	-31	31	1A4ai	-43	47	2C7c	-99	99
1A2c	-65	65	1A4bi	-64	68	2G	-100	116
1A2d	-70	71	1A4ci	-76	87	3F	-100	113
1A2e	-79	79	1A4ciii	-100	103	5C1a	-55	61
1A2f	-64	64	1A5a	-57	60	5C1bi	-75	75
1A2gviii	-74	75	1B1b	-30	30	5C1bv	-80	82
1A3bi	-85	86	2A5a	-31	30	5E	-101	117
1A3bii	-96	95	2A5b	-100	101	Total	-25	25
1A3biii	-101	101	2C1	-30	31			

Table 2.32 Uncertainties in Cadmium (Cd) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-46	46	1A3bvi	-101	101	2A5b	-100	100
1A1b	-72	72	1A3c	-101	102	2C1	-30	30
1A2a	-29	29	1A3dii	-100	101	2C2	-31	31
1A2b	-29	29	1A4ai	-71	76	2C6	-101	101
1A2c	-62	61	1A4aii	-76	77	2C7a	-30	30
1A2d	-73	72	1A4bi	-81	85	2C7c	-31	30
1A2e	-60	59	1A4bii	-101	103	2G	-101	116
1A2f	-59	59	1A4ci	-69	74	3F	-102	113
1A2gvii	-102	101	1A4cii	-101	103	5C1a	-52	58
1A2gviii	-71	72	1A4ciii	-100	103	5C1bi	-30	30
1A3bi	-75	76	1A5a	-55	60	5C1bv	-81	82
1A3bii	-98	98	1B1b	-30	31	5E	-100	117
1A3biii	-101	102	2A5a	-30	30	Total	-29	29
1A3biv	-95	94						

Table 2.33 Uuncertainties in Chromium (Cr) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-40	40	1A3biv	-87	89	2A2	-30	31
1A1b	-79	79	1A3bvi	-101	100	2A5a	-30	30
1A2a	-30	30	1A3c	-100	101	2A5b	-99	101
1A2b	-80	81	1A3dii	-99	101	2C1	-30	30
1A2c	-57	57	1A4ai	-66	71	2C2	-30	30
1A2d	-49	49	1A4aii	-75	78	2C7c	-31	31
1A2e	-75	76	1A4bi	-78	84	2G	-100	115
1A2f	-63	64	1A4bii	-99	104	3F	-101	113
1A2gvii	-101	101	1A4ci	-58	63	5C1a	-52	57
1A2gviii	-57	57	1A4cii	-99	104	5C1bi	-30	31
1A3bi	-71	71	1A4ciii	-101	102	5C1bv	-81	81
1A3bii	-99	99	1A5a	-48	51	5E	-100	118
1A3biii	-99	100	1B1b	-31	30	Total	-25	26

Table 2.34 Uuncertainties in Copper (Cu) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-40	40	1A3bvi	-100	100	2A5b	-101	101
1A1b	76	76	1A3c	-101	101	2B10a	-30	30
1A2a	-32	32	1A3dii	-100	102	2C1	-31	31
1A2b	-30	30	1A4ai	-42	45	2C2	-31	30

1A2c	-53	53	1A4aii	-76	78	2C6	-101	99
1A2d	-55	56	1A4bi	-72	77	2C7a	-30	30
1A2e	-75	75	1A4bii	-101	103	2C7c	-81	81
1A2f	-60	61	1A4ci	-73	83	2G	-101	117
1A2gvii	-101	101	1A4cii	-100	103	3F	-100	111
1A2gviii	-56	57	1A4ciii	-100	102	5C1a	-52	57
1A3bi	-81	80	1A5a	-71	81	5C1bi	-31	31
1A3bii	-96	96	1B1b	-30	31	5C1bv	-81	83
1A3biii	-100	100	2A2	-30	30	5E	-102	117
1A3biv	-96	96	2A5a	-31	31	Total	-76	76

Table 2.35 Uncertainties in Mercury (Hg) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-36	37	1A3biv	-95	96	2C1	-51	51
1A1b	-76	76	1A3bvi	-102	101	2C2	-50	50
1A2a	-45	45	1A3dii	-102	102	2C6	-101	101
1A2b	-50	50	1A4ai	-61	65	2C7c	-101	100
1A2c	-39	38	1A4bi	-79	85	2G	-102	116
1A2d	-57	57	1A4ci	-58	62	3F	-102	113
1A2e	-77	77	1A4ciii	-100	101	5C1a	-48	48
1A2f	-49	49	1A5a	-59	65	5C1bi	-69	68
1A2gviii	-52	52	2A1	-100	100	5C1bv	-81	82
1A3bi	-78	78	2A5b	-99	100	5E	-101	115
1A3bii	-98	97	2B10a	-51	50	Total	-19	19
1A3biii	-100	100						

Table 2.36 Uncertainties in Nickel (Ni) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-32	32	1A3bvi	-101	100	2A5a	-30	31
1A1b	-29	29	1A3c	-102	101	2A5b	-101	101
1A2a	-29	29	1A3dii	-101	103	2B10a	-30	31
1A2b	-28	28	1A4ai	-63	64	2C1	-30	31
1A2c	-73	72	1A4aii	-76	78	2C2	-30	30
1A2d	-43	42	1A4bi	-74	80	2C7a	-31	31
1A2e	-55	56	1A4bii	-101	104	2C7b	-30	31
1A2f	-61	60	1A4ci	-50	53	2C7c	-30	31
1A2gvii	-101	103	1A4cii	-100	104	3F	-100	113
1A2gviii	-54	54	1A4ciii	-101	102	5C1a	-52	57
1A3bi	-77	77	1A5a	-75	85	5C1bi	-31	30
1A3bii	-98	98	1B1b	-30	30	5C1bv	-81	82
1A3biii	-100	100	2A1	-101	101	Total	-16	16
1A3biv	-95	95	2A2	-30	31			

Table 2.37 Uncertainties in Lead (Pb) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-37	37	1A3biv	-89	89	2C1	-30	30
1A1b	-77	79	1A3bvi	-100	100	2C2	-31	31
1A2a	-29	29	1A3dii	-101	102	2C7a	-31	30
1A2b	-30	30	1A4ai	-43	44	2C7c	-79	78
1A2c	-71	72	1A4bi	-74	79	2G	-101	117
1A2d	-74	75	1A4ci	-64	73	3F	-101	113
1A2e	-71	71	1A4ciii	-100	103	5C1a	-52	57
1A2f	-63	63	1A5a	-51	55	5C1bi	-31	30
1A2gviii	-52	53	1B1b	-30	31	5C1bv	-81	82
1A3bi	-72	71	2A2	-30	30	5E	-100	117
1A3bii	-99	100	2A5a	-31	31	Total	-29	29
1A3biii	-100	100	2A5b	-101	101			

Table 2.38 Uncertainties in Zinc (Zn) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-51	51	1A3biv	-95	95	2A2	-30	31
1A1b	-69	68	1A3bvi	-100	101	2A5a	-31	31
1A2a	-41	42	1A3c	-100	101	2C1	-30	31
1A2b	-29	29	1A3dii	-100	102	2C2	-31	30
1A2c	-48	48	1A4ai	-77	82	2C6	-100	100
1A2d	-66	67	1A4aii	-77	77	2C7a	-30	31

1A2e	-59	59	1A4bi	-81	86	2C7c	-29	29
1A2f	-55	56	1A4bii	-101	104	2H2	-31	31
1A2gvii	-101	100	1A4ci	-73	80	3F	-100	112
1A2gviii	-72	74	1A4cii	-101	103	5C1a	-53	57
1A3bi	-75	76	1A4ciii	-100	102	5C1bi	-66	72
1A3bii	-99	99	1A5a	-55	61	5C1bv	-80	82
1A3biii	-101	101	1B1b	-31	30	Total	-31	32

Uncertainties of Persistent Organic Compounds (POPs)

Table 2.39 Uncertainties in Hexachlorobenzene (HCB) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-98	240	1A3bii	-98	239	2B10a	-97	216
1A1b	-98	238	1A3biii	-98	242	2C7a	-98	238
1A2a	-98	242	1A3biv	-98	241	2C7c	-92	213
1A2b	-98	242	1A3dii	-98	243	2D3i	-98	253
1A2c	-98	236	1A4ai	-97	246	3Df	-98	242
1A2d	-98	242	1A4bi	-98	242	5C1a	-98	255
1A2e	-98	242	1A4ci	-98	246	5C1bi	-101	316
1A2f	-98	241	1A4ciii	-98	241	5C1bv	-98	241
1A2gviii	-97	235	1A5a	-94	231	Total	-74	118
1A3bi	-98	239						

Table 2.40 Uncertainties in Polyaromatic Hydrocarbon (PAH-4) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-76	128	1A3bii	-98	235	1B1b	-98	240
1A1b	-81	154	1A3biii	-98	239	2B10a	-97	214
1A2a	-87	199	1A3biv	-98	241	2C1	-90	199
1A2b	-85	154	1A3c	-98	240	2C2	-92	216
1A2c	-86	182	1A4ai	-85	154	2D3i	-93	238
1A2d	-67	101	1A4aii	-87	177	2G	-98	247
1A2e	-74	120	1A4bi	-97	246	3F	-98	247
1A2f	-76	144	1A4bii	-98	241	5C1a	-94	234
1A2gvii	-98	241	1A4ci	-89	207	5C1bi	-95	239
1A2gviii	-80	146	1A4cii	-98	242	5C1bv	-98	241
1A3bi	-98	238	1A5a	-78	136	Total	-81	199

Table 2.41 Uncertainties in Polychlorinated biphenyls (PCBs) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A2d	-98	243	1A4ci	-87	160	2C7a	-98	240
1A3bi	-98	240	1A4ciii	-98	239	2C7c	-89	180
1A3bii	-98	241	1B1b	-98	242	5C1a	-98	253
1A3biii	-98	240	1B2aiv	-98	248	5C1bi	-100	312
1A3biv	-98	236	2A1	-98	247	5C1bv	-98	243
1A3dii	-98	240	2A2	-98	252	5E	-98	250
1A4ai	-90	205	2B10a	-97	215	Total	-61	109
1A4bi	-89	184	2C1	-88	170			

Table 2.42 Uncertainties in Polychlorinated dioxins and furans (PCDD/F) emissions by NFR categories in 2015 data

NFR	Uncertainty		NFR	Uncertainty		NFR	Uncertainty	
	Lower%	Upper%		Lower%	Upper%		Lower%	Upper%
1A1a	-68	109	1A3dii	-98	240	2C6	-98	242
1A1b	-78	166	1A3ei	-98	240	2C7a	-98	243
1A2a	-67	113	1A4ai	-85	201	2D3b	-98	249
1A2b	-70	112	1A4bi	-97	243	2G	-98	248
1A2c	-77	175	1A4ci	-90	207	2H1	-98	213
1A2d	-75	147	1A4ciii	-98	239	2L	-98	248
1A2e	-88	192	1A5a	-78	128	3F	-98	249
1A2f	-77	128	1B1b	-98	242	5C1a	-91	218
1A2gviii	-83	185	2A1	-98	246	5C1bi	-90	220
1A3bi	-98	239	2A2	-98	248	5C1bv	-98	240
1A3bii	-98	237	2A3	-98	250	5E	-98	252
1A3biii	-98	242	2B10a	-97	215	Total	-40	53
1A3biv	-98	240	2C1	-97	215			

1.9 References

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