



FINLAND'S INFORMATIVE INVENTORY REPORT 2022

Air Pollutant Emissions 1980-2020

under the UNECE CLRTAP and the EU NECD

Part 7 - Annexes

March 2022

FINNISH ENVIRONMENT INSTITUTE
Centre for Sustainable Consumption and Production
Environmental Management in Industry – Air Emissions Team

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Cover photo Part 5: Marja-Leena Nenonen (2006) Kivijäkälää (Stone lichen), Ympäristöhallinnon kuvapankki

Annex 1

Implied emission factor tables for fuel combustion in 2020 (2022 submission)

Updated March 2022 (TF)

NOx Implied emission factors in Finnish air pollutant inventory for 2020

2020	NOx	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.063739056	t/TJ
2020	NOx	1A1a	ANIMAL-BASED FUELS	0.074612064	t/TJ
2020	NOx	1A1a	BARK	0.074872563	t/TJ
2020	NOx	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0.070000000	t/TJ
2020	NOx	1A1a	BLAST FURNACE GAS	0.009672756	t/TJ
2020	NOx	1A1a	CHIPS FROM ROUNDWOOD	0.086426748	t/TJ
2020	NOx	1A1a	COAL (S=1.0%)	0.073816320	t/TJ
2020	NOx	1A1a	COKE OVEN GAS	0.009672756	t/TJ
2020	NOx	1A1a	CREOSOTED WOOD	0.078694819	t/TJ
2020	NOx	1A1a	DEINKING WASTE	0.081199932	t/TJ
2020	NOx	1A1a	DEMOLITION WOOD	0.126903574	t/TJ
2020	NOx	1A1a	DIESEL OIL (S=001%)	1.734117590	t/TJ
2020	NOx	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.052159371	t/TJ
2020	NOx	1A1a	FOREST RESIDUE CHIPS	0.087132760	t/TJ
2020	NOx	1A1a	GASIFIED WASTE	0.216062344	t/TJ
2020	NOx	1A1a	GASOIL (FOR NON-ROAD USE)	0.118291036	t/TJ
2020	NOx	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.044740202	t/TJ
2020	NOx	1A1a	HEAVY FUEL OIL (S<1%)	0.160078099	t/TJ
2020	NOx	1A1a	HYDROGEN	0.083453292	t/TJ
2020	NOx	1A1a	INDUSTRIAL BIOGAS	0.166536032	t/TJ
2020	NOx	1A1a	INDUSTRIAL WASTE	0.094715616	t/TJ
2020	NOx	1A1a	LANDFILL GAS	0.058480068	t/TJ
2020	NOx	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.204016165	t/TJ
2020	NOx	1A1a	LIQUID GAS	0.068299398	t/TJ
2020	NOx	1A1a	MILLED PEAT	0.092653611	t/TJ
2020	NOx	1A1a	MUNICIPAL WASTE - unsorted	0.106594125	t/TJ
2020	NOx	1A1a	NATURAL GAS	0.040397373	t/TJ
2020	NOx	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.081813365	t/TJ
2020	NOx	1A1a	OTHER FOSSIL GAS	0.036553873	t/TJ
2020	NOx	1A1a	OTHER FOSSIL SOLID	0.037568912	t/TJ
2020	NOx	1A1a	OTHER HEAVY DISTILLATES	0.100000000	t/TJ
2020	NOx	1A1a	OTHER NON-FOSSIL GAS	0.059709446	t/TJ
2020	NOx	1A1a	OTHER NON-FOSSIL LIQUID	0.107256755	t/TJ
2020	NOx	1A1a	OTHER NON-FOSSIL SOLID	0.112856074	t/TJ
2020	NOx	1A1a	OTHER WASTE	0.130705235	t/TJ
2020	NOx	1A1a	OTHER WOOD RESIDUE	0.054460875	t/TJ
2020	NOx	1A1a	PAPER	0.062779689	t/TJ
2020	NOx	1A1a	PLASTIC WASTE	0.077665742	t/TJ
2020	NOx	1A1a	PLYWOOD RESIDUE	0.072703813	t/TJ
2020	NOx	1A1a	RECOVERED FUEL (REF 1)	0.106767497	t/TJ
2020	NOx	1A1a	RECOVERED FUEL (REF 2)	0.104574263	t/TJ
2020	NOx	1A1a	RECOVERED FUEL (REF 3)	0.093754997	t/TJ
2020	NOx	1A1a	RECOVERED WOOD	0.093867494	t/TJ
2020	NOx	1A1a	RECYCLED AND WASTE OILS	0.068424981	t/TJ
2020	NOx	1A1a	REFINERY GAS	0.021534462	t/TJ
2020	NOx	1A1a	REFUSE-DERIVED FUEL (RDF)	0.030465399	t/TJ
2020	NOx	1A1a	SAWDUST AND CUTTER CHIPS	0.085038390	t/TJ
2020	NOx	1A1a	SOD PEAT	0.192968052	t/TJ
2020	NOx	1A1a	TALL PITCH AND OIL	0.100000000	t/TJ
2020	NOx	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.085003154	t/TJ
2020	NOx	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.063993273	t/TJ
2020	NOx	1A1a	WOOD RESIDUE CHIPS	0.101786760	t/TJ
2020	NOx	1A1b	COKE (S=1.0%)	0.162094603	t/TJ

2020	NOx	1A1b	DIESEL OIL (S=001%)	0.100000000	t/TJ
2020	NOx	1A1b	GASOIL (FOR NON-ROAD USE)	0.100000000	t/TJ
2020	NOx	1A1b	HEAVY FUEL OIL (S<1%)	0.035971296	t/TJ
2020	NOx	1A1b	INDUSTRIAL BIOGAS	0.025054432	t/TJ
2020	NOx	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.049058041	t/TJ
2020	NOx	1A1b	LIQUID GAS	0.068159298	t/TJ
2020	NOx	1A1b	NATURAL GAS	0.036986914	t/TJ
2020	NOx	1A1b	OTHER FOSSIL GAS	0.032666397	t/TJ
2020	NOx	1A1b	OTHER FOSSIL LIQUID	0.036709735	t/TJ
2020	NOx	1A1b	OTHER MEDIUM DISTILLATES	0.050396125	t/TJ
2020	NOx	1A1b	PETROLEUM COKE	0.024380233	t/TJ
2020	NOx	1A1b	REFINERY GAS	0.036498729	t/TJ
2020	NOx	1A2a	BLAST FURNACE GAS	0.032124234	t/TJ
2020	NOx	1A2a	COKE (S=1.0%)	0.707457829	t/TJ
2020	NOx	1A2a	COKE OVEN GAS	0.168210255	t/TJ
2020	NOx	1A2a	DIESEL OIL (S=001%)	4.182879377	t/TJ
2020	NOx	1A2a	GASOIL (FOR NON-ROAD USE)	0.741558997	t/TJ
2020	NOx	1A2a	HEAVY FUEL OIL (S<1%)	0.044737391	t/TJ
2020	NOx	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.113502161	t/TJ
2020	NOx	1A2a	LIQUID GAS	0.204058521	t/TJ
2020	NOx	1A2a	NATURAL GAS	0.150644137	t/TJ
2020	NOx	1A2a	OTHER FOSSIL GAS	0.099418185	t/TJ
2020	NOx	1A2a	OTHER FOSSIL SOLID	0.011648160	t/TJ
2020	NOx	1A2a	OXYGEN STEEL FURNACE GAS	0.079071865	t/TJ
2020	NOx	1A2a	WOOD RESIDUE CHIPS	0.267690503	t/TJ
2020	NOx	1A2b	COAL (S=1.0%)	0.170000000	t/TJ
2020	NOx	1A2b	COKE (S=1.0%)	0.201236558	t/TJ
2020	NOx	1A2b	GASOIL (FOR NON-ROAD USE)	0.100000000	t/TJ
2020	NOx	1A2b	HEAVY FUEL OIL (S<1%)	0.203834913	t/TJ
2020	NOx	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.202683065	t/TJ
2020	NOx	1A2b	LIQUID GAS	0.155685877	t/TJ
2020	NOx	1A2b	NATURAL GAS	0.068525764	t/TJ
2020	NOx	1A2b	OTHER HEAVY DISTILLATES	0.201236558	t/TJ
2020	NOx	1A2c	COAL (S=1.0%)	0.150000000	t/TJ
2020	NOx	1A2c	DIESEL OIL (S=001%)	0.100000000	t/TJ
2020	NOx	1A2c	GASIFIED WASTE	0.036792292	t/TJ
2020	NOx	1A2c	GASOIL (FOR NON-ROAD USE)	0.080338223	t/TJ
2020	NOx	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.297908847	t/TJ
2020	NOx	1A2c	HEAVY FUEL OIL (S<1%)	0.884840543	t/TJ
2020	NOx	1A2c	HYDROGEN	0.065502183	t/TJ
2020	NOx	1A2c	INDUSTRIAL BIOGAS	0.070000000	t/TJ
2020	NOx	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.148070956	t/TJ
2020	NOx	1A2c	LIQUID GAS	0.049299859	t/TJ
2020	NOx	1A2c	NATURAL GAS	0.058303061	t/TJ
2020	NOx	1A2c	OTHER FOSSIL GAS	0.182236359	t/TJ
2020	NOx	1A2c	OTHER FOSSIL LIQUID	0.040912247	t/TJ
2020	NOx	1A2c	OTHER HEAVY DISTILLATES	0.021885464	t/TJ
2020	NOx	1A2c	OTHER NON-FOSSIL GAS	0.070000000	t/TJ
2020	NOx	1A2c	PETROLEUM COKE	0.032174730	t/TJ
2020	NOx	1A2c	REFINERY GAS	0.032128687	t/TJ
2020	NOx	1A2c	TALL PITCH AND OIL	0.063257066	t/TJ
2020	NOx	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.040177107	t/TJ
2020	NOx	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.106585626	t/TJ
2020	NOx	1A2d	ANIMAL-BASED FUELS	0.053785710	t/TJ
2020	NOx	1A2d	AROMATIC GAS	0.186125585	t/TJ
2020	NOx	1A2d	BARK	0.114510641	t/TJ

2020	NOx	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.028266096	t/TJ
2020	NOx	1A2d	BLACK LIQUOR	0.059390323	t/TJ
2020	NOx	1A2d	CHIPS FROM ROUNDWOOD	0.094350099	t/TJ
2020	NOx	1A2d	COAL (S=1.0%)	0.078672389	t/TJ
2020	NOx	1A2d	CREOSOTED WOOD	0.053785710	t/TJ
2020	NOx	1A2d	DEMOLITION WOOD	0.053785710	t/TJ
2020	NOx	1A2d	DIESEL OIL (S=001%)	0.100000000	t/TJ
2020	NOx	1A2d	FOREST RESIDUE CHIPS	0.096907356	t/TJ
2020	NOx	1A2d	GASOIL (FOR NON-ROAD USE)	0.092440170	t/TJ
2020	NOx	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.187212633	t/TJ
2020	NOx	1A2d	HEAVY FUEL OIL (S<1%)	0.140093623	t/TJ
2020	NOx	1A2d	HYDROGEN	0.157164816	t/TJ
2020	NOx	1A2d	INDUSTRIAL BIOGAS	0.070000000	t/TJ
2020	NOx	1A2d	INDUSTRIAL WASTE	0.188114821	t/TJ
2020	NOx	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.170858303	t/TJ
2020	NOx	1A2d	LIQUID GAS	0.091489351	t/TJ
2020	NOx	1A2d	METHANOL	0.131878845	t/TJ
2020	NOx	1A2d	MILLED PEAT	0.120085273	t/TJ
2020	NOx	1A2d	NATURAL GAS	0.057943473	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	NOx	1A2d	TRY	0.148365867	t/TJ
2020	NOx	1A2d	OTHER FOSSIL SOLID	0.075192585	t/TJ
2020	NOx	1A2d	OTHER HEAVY DISTILLATES	0.100081162	t/TJ
2020	NOx	1A2d	OTHER NON-FOSSIL LIQUID	0.299550466	t/TJ
2020	NOx	1A2d	OTHER WOOD RESIDUE	0.087519436	t/TJ
2020	NOx	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.126635803	t/TJ
2020	NOx	1A2d	PAPER	0.089685153	t/TJ
2020	NOx	1A2d	PLASTIC WASTE	0.084442819	t/TJ
2020	NOx	1A2d	RECOVERED FUEL (REF 1)	0.146258790	t/TJ
2020	NOx	1A2d	RECOVERED FUEL (REF 2)	0.053785710	t/TJ
2020	NOx	1A2d	RECOVERED WOOD	0.081643117	t/TJ
2020	NOx	1A2d	RECYCLED AND WASTE OILS	0.053785710	t/TJ
2020	NOx	1A2d	SAWDUST AND CUTTER CHIPS	0.109721597	t/TJ
2020	NOx	1A2d	SULPHITE LIQUOR	0.137148981	t/TJ
2020	NOx	1A2d	TALL PITCH AND OIL	0.075756771	t/TJ
2020	NOx	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.104606776	t/TJ
2020	NOx	1A2d	WOOD RESIDUE CHIPS	0.074168706	t/TJ
2020	NOx	1A2e	ANIMAL-BASED FUELS	0.124567736	t/TJ
2020	NOx	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.044338379	t/TJ
2020	NOx	1A2e	CHIPS FROM ROUNDWOOD	0.132335502	t/TJ
2020	NOx	1A2e	COAL (S=1.0%)	0.125035092	t/TJ
2020	NOx	1A2e	COKE (S=1.0%)	0.170000000	t/TJ
2020	NOx	1A2e	DIESEL OIL (S=001%)	0.100000000	t/TJ
2020	NOx	1A2e	GASOIL (FOR NON-ROAD USE)	0.103544804	t/TJ
2020	NOx	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.101149425	t/TJ
2020	NOx	1A2e	HEAVY FUEL OIL (S<1%)	0.116653267	t/TJ
2020	NOx	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.091441444	t/TJ
2020	NOx	1A2e	LIQUID GAS	0.054343561	t/TJ
2020	NOx	1A2e	MILLED PEAT	0.208676601	t/TJ
2020	NOx	1A2e	NATURAL GAS	0.063190887	t/TJ
2020	NOx	1A2e	OTHER NON-FOSSIL GAS	0.008407399	t/TJ
2020	NOx	1A2e	OTHER NON-FOSSIL LIQUID	0.255452004	t/TJ
2020	NOx	1A2e	OTHER NON-FOSSIL SOLID	0.120000000	t/TJ
2020	NOx	1A2e	PEAT PELLETS AND BRIQUETTES	0.230915185	t/TJ
2020	NOx	1A2e	RECOVERED WOOD	0.173186389	t/TJ
2020	NOx	1A2e	SAWDUST AND CUTTER CHIPS	0.163647814	t/TJ
2020	NOx	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.100000000	t/TJ

2020	NOx	1A2e	WOOD RESIDUE CHIPS	0.120000000	t/TJ
2020	NOx	1A2f	CHIPS FROM ROUNDWOOD	0.061145003	t/TJ
2020	NOx	1A2f	COAL (S=1.0%)	0.271487032	t/TJ
2020	NOx	1A2f	COKE (S=1.0%)	0.182727663	t/TJ
2020	NOx	1A2f	COKE OVEN GAS	0.019148246	t/TJ
2020	NOx	1A2f	DIESEL OIL (S=001%)	0.085754557	t/TJ
2020	NOx	1A2f	FOREST RESIDUE CHIPS	0.122223337	t/TJ
2020	NOx	1A2f	GASOIL (FOR NON-ROAD USE)	0.100966041	t/TJ
2020	NOx	1A2f	HEAVY FUEL OIL (S<1%)	0.066682719	t/TJ
2020	NOx	1A2f	INDUSTRIAL BIOGAS	0.070000000	t/TJ
2020	NOx	1A2f	INDUSTRIAL WASTE	0.128232885	t/TJ
2020	NOx	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.101020215	t/TJ
2020	NOx	1A2f	LIQUID GAS	0.123370881	t/TJ
2020	NOx	1A2f	NATURAL GAS	0.094187548	t/TJ
2020	NOx	1A2f	OTHER FOSSIL GAS	0.070000000	t/TJ
2020	NOx	1A2f	OTHER FOSSIL SOLID	0.106860738	t/TJ
2020	NOx	1A2f	OTHER HEAVY DISTILLATES	0.081188819	t/TJ
2020	NOx	1A2f	OTHER NON-FOSSIL GAS	0.070000000	t/TJ
2020	NOx	1A2f	OTHER WASTE	0.128232885	t/TJ
2020	NOx	1A2f	OXYGEN STEEL FURNACE GAS	0.220000000	t/TJ
2020	NOx	1A2f	PETROLEUM COKE	0.452625692	t/TJ
2020	NOx	1A2f	RECOVERED FUEL (REF 1)	0.229962947	t/TJ
2020	NOx	1A2f	RECOVERED WOOD	0.146668005	t/TJ
2020	NOx	1A2f	RECYCLED AND WASTE OILS	0.230587817	t/TJ
2020	NOx	1A2f	RUBBER WASTE	0.448815098	t/TJ
2020	NOx	1A2f	SAWDUST AND CUTTER CHIPS	0.204310177	t/TJ
2020	NOx	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.332225072	t/TJ
2020	NOx	1A2gvii	LIQUID GAS	0.531176196	t/TJ
2020	NOx	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.267900597	t/TJ
2020	NOx	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.104573732	t/TJ
2020	NOx	1A2gviii	BARK	0.098256739	t/TJ
2020	NOx	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.092851749	t/TJ
2020	NOx	1A2gviii	CHIPS FROM ROUNDWOOD	0.068931013	t/TJ
2020	NOx	1A2gviii	CREOSOTED WOOD	0.116497441	t/TJ
2020	NOx	1A2gviii	DEMOLITION WOOD	0.099114750	t/TJ
2020	NOx	1A2gviii	DIESEL OIL (S=001%)	0.680595634	t/TJ
2020	NOx	1A2gviii	FOREST RESIDUE CHIPS	0.064846762	t/TJ
2020	NOx	1A2gviii	GASIFIED WASTE	0.151731407	t/TJ
2020	NOx	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.165087939	t/TJ
2020	NOx	1A2gviii	HAZARDOUS WASTE	0.081137821	t/TJ
2020	NOx	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.054001164	t/TJ
2020	NOx	1A2gviii	HEAVY FUEL OIL (S<1%)	0.236302283	t/TJ
2020	NOx	1A2gviii	INDUSTRIAL BIOGAS	0.074578397	t/TJ
2020	NOx	1A2gviii	LANDFILL GAS	0.143364124	t/TJ
2020	NOx	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.291336394	t/TJ
2020	NOx	1A2gviii	LIQUID GAS	0.058606888	t/TJ
2020	NOx	1A2gviii	MILLED PEAT	0.113247448	t/TJ
2020	NOx	1A2gviii	MUNICIPAL WASTE - unsorted	0.094289199	t/TJ
2020	NOx	1A2gviii	NATURAL GAS	0.294053857	t/TJ
2020	NOx	1A2gviii	OTHER HEAVY DISTILLATES	0.103833435	t/TJ
2020	NOx	1A2gviii	OTHER NON-FOSSIL GAS	0.094759858	t/TJ
2020	NOx	1A2gviii	OTHER NON-FOSSIL LIQUID	0.186597651	t/TJ
2020	NOx	1A2gviii	OTHER NON-FOSSIL SOLID	0.075100049	t/TJ
2020	NOx	1A2gviii	OTHER WASTE	0.110741715	t/TJ
2020	NOx	1A2gviii	OTHER WOOD RESIDUE	0.119338765	t/TJ
2020	NOx	1A2gviii	PLASTIC WASTE	0.107690322	t/TJ

2020	NOx	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.093948605	t/TJ
2020	NOx	1A2gviii	RECOVERED FUEL (REF 2)	0.116806698	t/TJ
2020	NOx	1A2gviii	RECOVERED WOOD	0.119742349	t/TJ
2020	NOx	1A2gviii	RECYCLED AND WASTE OILS	0.050591144	t/TJ
2020	NOx	1A2gviii	SALT TREATED WOOD	0.116234799	t/TJ
2020	NOx	1A2gviii	SAWDUST AND CUTTER CHIPS	0.093494734	t/TJ
2020	NOx	1A2gviii	SOD PEAT	0.113128016	t/TJ
2020	NOx	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.104832185	t/TJ
2020	NOx	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.101462681	t/TJ
2020	NOx	1A2gviii	WOOD RESIDUE CHIPS	0.098947276	t/TJ
2020	NOx	1A3ai(i)	KEROSENE (JET FUEL)	0.328580090	t/TJ
2020	NOx	1A3aii(i)	AVIATION GASOLINE	0.078069300	t/TJ
2020	NOx	1A3aii(i)	KEROSENE (JET FUEL)	0.281902398	t/TJ
2020	NOx	1A3bi	DIESEL OIL (S=001%)	0.284608945	t/TJ
2020	NOx	1A3bi	MOTOR GASOLINE (S=0.001%)	0.045552469	t/TJ
2020	NOx	1A3bi	NATURAL GAS	0.009211219	t/TJ
2020	NOx	1A3bii	DIESEL OIL (S=001%)	0.312741550	t/TJ
2020	NOx	1A3bii	MOTOR GASOLINE (S=0.001%)	0.491675726	t/TJ
2020	NOx	1A3bii	NATURAL GAS	0.010080455	t/TJ
2020	NOx	1A3biii	DIESEL OIL (S=001%)	0.160702849	t/TJ
2020	NOx	1A3biii	NATURAL GAS	0.090821496	t/TJ
2020	NOx	1A3biv	DIESEL OIL (S=001%)	0.604635808	t/TJ
2020	NOx	1A3biv	MOTOR GASOLINE (S=0.001%)	0.103154062	t/TJ
2020	NOx	1A3c	GASOIL (FOR NON-ROAD USE)	1.584767075	t/TJ
2020	NOx	1A3dii	DIESEL OIL (S=001%)	1.215338265	t/TJ
2020	NOx	1A3dii	GASOIL (FOR NON-ROAD USE)	1.312712325	t/TJ
2020	NOx	1A3dii	HEAVY FUEL OIL (normal, S>1%)	1.362959641	t/TJ
2020	NOx	1A3dii	MOTOR GASOLINE (S=0.001%)	0.374352646	t/TJ
2020	NOx	1A3ei	NATURAL GAS	0.065911818	t/TJ
2020	NOx	1A4ai	FOREST WOODFUEL	0.080000000	t/TJ
2020	NOx	1A4ai	GASOIL (FOR NON-ROAD USE)	0.076537501	t/TJ
2020	NOx	1A4ai	HEAVY FUEL OIL (S<1%)	0.080000000	t/TJ
2020	NOx	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.088525629	t/TJ
2020	NOx	1A4ai	NATURAL GAS	0.050843907	t/TJ
2020	NOx	1A4ai	SOD PEAT	0.126666667	t/TJ
2020	NOx	1A4aii	GASOIL (FOR NON-ROAD USE)	0.318601348	t/TJ
2020	NOx	1A4aii	MOTOR GASOLINE (S=0.001%)	0.125720946	t/TJ
2020	NOx	1A4bi	COAL (S=1.0%)	0.050000000	t/TJ
2020	NOx	1A4bi	FOREST WOODFUEL	0.080000000	t/TJ
2020	NOx	1A4bi	HEAVY FUEL OIL (S<1%)	0.080000000	t/TJ
2020	NOx	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.080000000	t/TJ
2020	NOx	1A4bi	LIQUID GAS	0.050000000	t/TJ
2020	NOx	1A4bi	NATURAL GAS	0.050000000	t/TJ
2020	NOx	1A4bi	PARAFFIN	0.080000000	t/TJ
2020	NOx	1A4bi	SOD PEAT	0.100000000	t/TJ
2020	NOx	1A4bii	GASOIL (FOR NON-ROAD USE)	0.886802101	t/TJ
2020	NOx	1A4bii	MOTOR GASOLINE (S=0.001%)	0.176472945	t/TJ
2020	NOx	1A4ci	CHIPS FROM ROUNDWOOD	0.100313144	t/TJ
2020	NOx	1A4ci	COAL (S=1.0%)	0.170000000	t/TJ
2020	NOx	1A4ci	FOREST WOODFUEL	0.080000000	t/TJ
2020	NOx	1A4ci	HEAVY FUEL OIL (S<1%)	0.080000000	t/TJ
2020	NOx	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.080000000	t/TJ
2020	NOx	1A4ci	LIQUID GAS	0.050000000	t/TJ
2020	NOx	1A4ci	OTHER NON-FOSSIL SOLID	0.120000000	t/TJ
2020	NOx	1A4ci	RECOVERED WOOD	0.090784044	t/TJ
2020	NOx	1A4ci	SOD PEAT	0.100156522	t/TJ

2020	NOx	1A4ci	WOOD RESIDUE CHIPS	2.244897959	t/TJ
2020	NOx	1A4cii	GASOIL (FOR NON-ROAD USE)	0.238846348	t/TJ
2020	NOx	1A4cii	MOTOR GASOLINE (S=0.001%)	0.067137281	t/TJ
2020	NOx	1A4ciii	GASOIL (FOR NON-ROAD USE)	1.274074074	t/TJ
2020	NOx	1A5a	AVIATION GASOLINE	0.083333333	t/TJ
2020	NOx	1A5a	FOREST WOODFUEL	0.100000000	t/TJ
2020	NOx	1A5a	HEAVY FUEL OIL (S<1%)	0.080000000	t/TJ
2020	NOx	1A5a	KEROSENE (JET FUEL)	0.223028544	t/TJ
2020	NOx	1A5a	LANDFILL GAS	0.050000000	t/TJ
2020	NOx	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.204723232	t/TJ
2020	NOx	1A5a	LIQUID GAS	0.050000000	t/TJ
2020	NOx	1A5a	NATURAL GAS	0.050000000	t/TJ
2020	NOx	1A5a	OTHER PETROLEUM PRODUCTS	0.080000000	t/TJ

NMVOC Implied emission factors in Finnish air pollutant inventory for 2020

2020	NMVOC	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.017864854	t/TJ
2020	NMVOC	1A1a	ANIMAL-BASED FUELS	0.001803173	t/TJ
2020	NMVOC	1A1a	BARK	0.006567332	t/TJ
2020	NMVOC	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0.001000000	t/TJ
2020	NMVOC	1A1a	BLAST FURNACE GAS	0.001000000	t/TJ
2020	NMVOC	1A1a	CHIPS FROM ROUNDWOOD	0.003717038	t/TJ
2020	NMVOC	1A1a	COAL (S=1.0%)	0.002349686	t/TJ
2020	NMVOC	1A1a	COKE OVEN GAS	0.001000000	t/TJ
2020	NMVOC	1A1a	CREOSOTED WOOD	0.003000000	t/TJ
2020	NMVOC	1A1a	DEINKING WASTE	0.003000000	t/TJ
2020	NMVOC	1A1a	DEMOLITION WOOD	0.029523945	t/TJ
2020	NMVOC	1A1a	DIESEL OIL (S=001%)	0.003580186	t/TJ
2020	NMVOC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000217625	t/TJ
2020	NMVOC	1A1a	FOREST RESIDUE CHIPS	0.012775473	t/TJ
2020	NMVOC	1A1a	GASIFIED WASTE	0.004000000	t/TJ
2020	NMVOC	1A1a	GASOIL (FOR NON-ROAD USE)	0.001551237	t/TJ
2020	NMVOC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.002208052	t/TJ
2020	NMVOC	1A1a	HEAVY FUEL OIL (S<1%)	0.001549309	t/TJ
2020	NMVOC	1A1a	HYDROGEN	0.001000000	t/TJ
2020	NMVOC	1A1a	INDUSTRIAL BIOGAS	0.002955580	t/TJ
2020	NMVOC	1A1a	INDUSTRIAL WASTE	0.011612827	t/TJ
2020	NMVOC	1A1a	LANDFILL GAS	0.001000000	t/TJ
2020	NMVOC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.002317433	t/TJ
2020	NMVOC	1A1a	LIQUID GAS	0.001016159	t/TJ
2020	NMVOC	1A1a	MILLED PEAT	0.003591399	t/TJ
2020	NMVOC	1A1a	MUNICIPAL WASTE - unsorted	0.023095543	t/TJ
2020	NMVOC	1A1a	NATURAL GAS	0.002225198	t/TJ
2020	NMVOC	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.003000000	t/TJ
2020	NMVOC	1A1a	OTHER FOSSIL GAS	0.001165908	t/TJ
2020	NMVOC	1A1a	OTHER FOSSIL SOLID	0.003793445	t/TJ
2020	NMVOC	1A1a	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NMVOC	1A1a	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2020	NMVOC	1A1a	OTHER NON-FOSSIL LIQUID	0.050000000	t/TJ
2020	NMVOC	1A1a	OTHER NON-FOSSIL SOLID	0.004001063	t/TJ
2020	NMVOC	1A1a	OTHER WASTE	0.007926306	t/TJ
2020	NMVOC	1A1a	OTHER WOOD RESIDUE	0.006540774	t/TJ
2020	NMVOC	1A1a	PAPER	0.010000000	t/TJ
2020	NMVOC	1A1a	PLASTIC WASTE	0.001497146	t/TJ
2020	NMVOC	1A1a	PLYWOOD RESIDUE	0.003000000	t/TJ
2020	NMVOC	1A1a	RECOVERED FUEL (REF 1)	0.010000000	t/TJ
2020	NMVOC	1A1a	RECOVERED FUEL (REF 2)	0.032818372	t/TJ
2020	NMVOC	1A1a	RECOVERED FUEL (REF 3)	0.009810008	t/TJ
2020	NMVOC	1A1a	RECOVERED WOOD	0.017050138	t/TJ
2020	NMVOC	1A1a	RECYCLED AND WASTE OILS	0.003000000	t/TJ
2020	NMVOC	1A1a	REFINERY GAS	0.002181863	t/TJ
2020	NMVOC	1A1a	REFUSE-DERIVED FUEL (RDF)	0.003000000	t/TJ
2020	NMVOC	1A1a	SAWDUST AND CUTTER CHIPS	0.005208094	t/TJ
2020	NMVOC	1A1a	SOD PEAT	0.013448388	t/TJ
2020	NMVOC	1A1a	TALL PITCH AND OIL	0.050000000	t/TJ
2020	NMVOC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.011754135	t/TJ
2020	NMVOC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.021980602	t/TJ
2020	NMVOC	1A1a	WOOD RESIDUE CHIPS	0.029425632	t/TJ
2020	NMVOC	1A1b	COKE (S=1.0%)	0.000820339	t/TJ

2020	NMVOC	1A1b	DIESEL OIL (S=001%)	0.001000000	t/TJ
2020	NMVOC	1A1b	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2020	NMVOC	1A1b	INDUSTRIAL BIOGAS	0.001000000	t/TJ
2020	NMVOC	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.005713757	t/TJ
2020	NMVOC	1A1b	LIQUID GAS	0.000945907	t/TJ
2020	NMVOC	1A1b	NATURAL GAS	0.001422637	t/TJ
2020	NMVOC	1A1b	OTHER FOSSIL GAS	0.001000000	t/TJ
2020	NMVOC	1A1b	OTHER FOSSIL LIQUID	0.005725044	t/TJ
2020	NMVOC	1A1b	OTHER MEDIUM DISTILLATES	0.005747857	t/TJ
2020	NMVOC	1A1b	PETROLEUM COKE	0.004000000	t/TJ
2020	NMVOC	1A1b	REFINERY GAS	0.001154561	t/TJ
2020	NMVOC	1A2a	BLAST FURNACE GAS	0.000899142	t/TJ
2020	NMVOC	1A2a	COKE OVEN GAS	0.000557375	t/TJ
2020	NMVOC	1A2a	DIESEL OIL (S=001%)	0.001000000	t/TJ
2020	NMVOC	1A2a	GASOIL (FOR NON-ROAD USE)	0.001721277	t/TJ
2020	NMVOC	1A2a	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2020	NMVOC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.001000000	t/TJ
2020	NMVOC	1A2a	LIQUID GAS	0.000163171	t/TJ
2020	NMVOC	1A2a	NATURAL GAS	0.000602110	t/TJ
2020	NMVOC	1A2a	OTHER FOSSIL GAS	0.000472744	t/TJ
2020	NMVOC	1A2a	OXYGEN STEEL FURNACE GAS	0.001000000	t/TJ
2020	NMVOC	1A2a	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2020	NMVOC	1A2b	COKE (S=1.0%)	0.001000000	t/TJ
2020	NMVOC	1A2b	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2020	NMVOC	1A2b	HEAVY FUEL OIL (S<1%)	0.000793059	t/TJ
2020	NMVOC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000861716	t/TJ
2020	NMVOC	1A2b	LIQUID GAS	0.001958293	t/TJ
2020	NMVOC	1A2b	NATURAL GAS	0.001000000	t/TJ
2020	NMVOC	1A2b	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NMVOC	1A2c	COAL (S=1.0%)	0.001000000	t/TJ
2020	NMVOC	1A2c	DIESEL OIL (S=001%)	0.000182645	t/TJ
2020	NMVOC	1A2c	GASIFIED WASTE	0.004000000	t/TJ
2020	NMVOC	1A2c	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2020	NMVOC	1A2c	HEAVY FUEL OIL (S<1%)	0.000955460	t/TJ
2020	NMVOC	1A2c	HYDROGEN	0.001000000	t/TJ
2020	NMVOC	1A2c	INDUSTRIAL BIOGAS	0.027345906	t/TJ
2020	NMVOC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000671793	t/TJ
2020	NMVOC	1A2c	LIQUID GAS	0.000057738	t/TJ
2020	NMVOC	1A2c	NATURAL GAS	0.001000000	t/TJ
2020	NMVOC	1A2c	OTHER FOSSIL GAS	0.001000000	t/TJ
2020	NMVOC	1A2c	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NMVOC	1A2c	OTHER NON-FOSSIL GAS	0.027345906	t/TJ
2020	NMVOC	1A2c	REFINERY GAS	0.000069735	t/TJ
2020	NMVOC	1A2c	TALL PITCH AND OIL	0.001000000	t/TJ
2020	NMVOC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.032781240	t/TJ
2020	NMVOC	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.009287990	t/TJ
2020	NMVOC	1A2d	ANIMAL-BASED FUELS	0.003000000	t/TJ
2020	NMVOC	1A2d	AROMATIC GAS	0.001000000	t/TJ
2020	NMVOC	1A2d	BARK	0.002757096	t/TJ
2020	NMVOC	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.001000000	t/TJ
2020	NMVOC	1A2d	BLACK LIQUOR	0.000946965	t/TJ
2020	NMVOC	1A2d	CHIPS FROM ROUNDWOOD	0.006670773	t/TJ
2020	NMVOC	1A2d	COAL (S=1.0%)	0.003000000	t/TJ
2020	NMVOC	1A2d	CREOSOTED WOOD	0.003000000	t/TJ
2020	NMVOC	1A2d	DEMOLITION WOOD	0.003000000	t/TJ
2020	NMVOC	1A2d	DIESEL OIL (S=001%)	0.001000000	t/TJ

2020	NMVOC	1A2d	FOREST RESIDUE CHIPS	0.003563443	t/TJ
2020	NMVOC	1A2d	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2020	NMVOC	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.001000000	t/TJ
2020	NMVOC	1A2d	HEAVY FUEL OIL (S<1%)	0.001277211	t/TJ
2020	NMVOC	1A2d	HYDROGEN	0.000232392	t/TJ
2020	NMVOC	1A2d	INDUSTRIAL BIOGAS	0.001000000	t/TJ
2020	NMVOC	1A2d	INDUSTRIAL WASTE	0.008107663	t/TJ
2020	NMVOC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.001028247	t/TJ
2020	NMVOC	1A2d	LIQUID GAS	0.001000104	t/TJ
2020	NMVOC	1A2d	METHANOL	0.000965959	t/TJ
2020	NMVOC	1A2d	MILLED PEAT	0.002497229	t/TJ
2020	NMVOC	1A2d	NATURAL GAS	0.000972930	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	NMVOC	1A2d	TRY	0.003000000	t/TJ
2020	NMVOC	1A2d	OTHER FOSSIL SOLID	0.003000000	t/TJ
2020	NMVOC	1A2d	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NMVOC	1A2d	OTHER NON-FOSSIL LIQUID	0.050000000	t/TJ
2020	NMVOC	1A2d	OTHER WOOD RESIDUE	0.010000000	t/TJ
2020	NMVOC	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.003000000	t/TJ
2020	NMVOC	1A2d	PAPER	0.010000000	t/TJ
2020	NMVOC	1A2d	PLASTIC WASTE	0.002998410	t/TJ
2020	NMVOC	1A2d	RECOVERED FUEL (REF 1)	0.010000000	t/TJ
2020	NMVOC	1A2d	RECOVERED FUEL (REF 2)	0.003000000	t/TJ
2020	NMVOC	1A2d	RECOVERED WOOD	0.003000000	t/TJ
2020	NMVOC	1A2d	RECYCLED AND WASTE OILS	0.003000000	t/TJ
2020	NMVOC	1A2d	SAWDUST AND CUTTER CHIPS	0.006202019	t/TJ
2020	NMVOC	1A2d	SULPHITE LIQUOR	0.003000000	t/TJ
2020	NMVOC	1A2d	TALL PITCH AND OIL	0.000915859	t/TJ
2020	NMVOC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.013081771	t/TJ
2020	NMVOC	1A2d	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2020	NMVOC	1A2e	ANIMAL-BASED FUELS	0.049965062	t/TJ
2020	NMVOC	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.001000000	t/TJ
2020	NMVOC	1A2e	CHIPS FROM ROUNDWOOD	0.004000000	t/TJ
2020	NMVOC	1A2e	COAL (S=1.0%)	0.004000000	t/TJ
2020	NMVOC	1A2e	COKE (S=1.0%)	0.004000000	t/TJ
2020	NMVOC	1A2e	DIESEL OIL (S=001%)	0.001000000	t/TJ
2020	NMVOC	1A2e	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2020	NMVOC	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.001000000	t/TJ
2020	NMVOC	1A2e	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2020	NMVOC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.001465909	t/TJ
2020	NMVOC	1A2e	LIQUID GAS	0.001000000	t/TJ
2020	NMVOC	1A2e	MILLED PEAT	0.019176999	t/TJ
2020	NMVOC	1A2e	NATURAL GAS	0.001000000	t/TJ
2020	NMVOC	1A2e	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2020	NMVOC	1A2e	OTHER NON-FOSSIL LIQUID	0.050000000	t/TJ
2020	NMVOC	1A2e	OTHER NON-FOSSIL SOLID	0.004000000	t/TJ
2020	NMVOC	1A2e	PEAT PELLETS AND BRIQUETTES	0.004000000	t/TJ
2020	NMVOC	1A2e	RECOVERED WOOD	0.003000000	t/TJ
2020	NMVOC	1A2e	SAWDUST AND CUTTER CHIPS	0.022715491	t/TJ
2020	NMVOC	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.050000000	t/TJ
2020	NMVOC	1A2e	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2020	NMVOC	1A2f	CHIPS FROM ROUNDWOOD	0.050000000	t/TJ
2020	NMVOC	1A2f	COAL (S=1.0%)	0.001682045	t/TJ
2020	NMVOC	1A2f	COKE OVEN GAS	0.001000000	t/TJ
2020	NMVOC	1A2f	DIESEL OIL (S=001%)	0.001000000	t/TJ
2020	NMVOC	1A2f	FOREST RESIDUE CHIPS	0.050000000	t/TJ
2020	NMVOC	1A2f	GASOIL (FOR NON-ROAD USE)	0.001018599	t/TJ

2020	NM VOC	1A2f	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2020	NM VOC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000996809	t/TJ
2020	NM VOC	1A2f	LIQUID GAS	0.000637941	t/TJ
2020	NM VOC	1A2f	NATURAL GAS	0.000877119	t/TJ
2020	NM VOC	1A2f	OTHER FOSSIL GAS	0.001000000	t/TJ
2020	NM VOC	1A2f	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NM VOC	1A2f	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2020	NM VOC	1A2f	OXYGEN STEEL FURNACE GAS	0.001000000	t/TJ
2020	NM VOC	1A2f	PETROLEUM COKE	0.000301054	t/TJ
2020	NM VOC	1A2f	RECOVERED FUEL (REF 1)	0.005578111	t/TJ
2020	NM VOC	1A2f	RECOVERED WOOD	0.003000000	t/TJ
2020	NM VOC	1A2f	RECYCLED AND WASTE OILS	0.000916378	t/TJ
2020	NM VOC	1A2f	SAWDUST AND CUTTER CHIPS	0.001000000	t/TJ
2020	NM VOC	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.057180386	t/TJ
2020	NM VOC	1A2gvii	LIQUID GAS	0.796609546	t/TJ
2020	NM VOC	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.960377116	t/TJ
2020	NM VOC	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.010000000	t/TJ
2020	NM VOC	1A2gviii	BARK	0.014457354	t/TJ
2020	NM VOC	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.002106400	t/TJ
2020	NM VOC	1A2gviii	CHIPS FROM ROUNDWOOD	0.013160189	t/TJ
2020	NM VOC	1A2gviii	CREOSOTED WOOD	0.003000000	t/TJ
2020	NM VOC	1A2gviii	DEMOLITION WOOD	0.003000000	t/TJ
2020	NM VOC	1A2gviii	DIESEL OIL (S=0.01%)	0.061503747	t/TJ
2020	NM VOC	1A2gviii	FOREST RESIDUE CHIPS	0.032056191	t/TJ
2020	NM VOC	1A2gviii	GASIFIED WASTE	0.004000000	t/TJ
2020	NM VOC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.001241500	t/TJ
2020	NM VOC	1A2gviii	HAZARDOUS WASTE	0.010000000	t/TJ
2020	NM VOC	1A2gviii	HEAVY FUEL OIL (S<1%)	0.001597505	t/TJ
2020	NM VOC	1A2gviii	INDUSTRIAL BIOGAS	0.000438601	t/TJ
2020	NM VOC	1A2gviii	LANDFILL GAS	0.010753593	t/TJ
2020	NM VOC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.013470074	t/TJ
2020	NM VOC	1A2gviii	LIQUID GAS	0.043208676	t/TJ
2020	NM VOC	1A2gviii	MILLED PEAT	0.003587942	t/TJ
2020	NM VOC	1A2gviii	MUNICIPAL WASTE - unsorted	0.003422553	t/TJ
2020	NM VOC	1A2gviii	NATURAL GAS	0.001604916	t/TJ
2020	NM VOC	1A2gviii	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2020	NM VOC	1A2gviii	OTHER NON-FOSSIL GAS	0.000973931	t/TJ
2020	NM VOC	1A2gviii	OTHER NON-FOSSIL LIQUID	0.050000000	t/TJ
2020	NM VOC	1A2gviii	OTHER NON-FOSSIL SOLID	0.010803139	t/TJ
2020	NM VOC	1A2gviii	OTHER WASTE	0.003000000	t/TJ
2020	NM VOC	1A2gviii	OTHER WOOD RESIDUE	0.010000000	t/TJ
2020	NM VOC	1A2gviii	PLASTIC WASTE	0.003000000	t/TJ
2020	NM VOC	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.001000000	t/TJ
2020	NM VOC	1A2gviii	RECOVERED FUEL (REF 2)	0.050000000	t/TJ
2020	NM VOC	1A2gviii	RECOVERED WOOD	0.005802123	t/TJ
2020	NM VOC	1A2gviii	RECYCLED AND WASTE OILS	0.001000000	t/TJ
2020	NM VOC	1A2gviii	SALT TREATED WOOD	0.003000000	t/TJ
2020	NM VOC	1A2gviii	SAWDUST AND CUTTER CHIPS	0.020147606	t/TJ
2020	NM VOC	1A2gviii	SOD PEAT	0.020634900	t/TJ
2020	NM VOC	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012144068	t/TJ
2020	NM VOC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.059607370	t/TJ
2020	NM VOC	1A2gviii	WOOD RESIDUE CHIPS	0.036097976	t/TJ
2020	NM VOC	1A3ai(i)	KEROSENE (JET FUEL)	0.046878149	t/TJ
2020	NM VOC	1A3ai(i)	AVIATION GASOLINE	0.516662447	t/TJ
2020	NM VOC	1A3ai(i)	KEROSENE (JET FUEL)	0.043977823	t/TJ
2020	NM VOC	1A3bi	DIESEL OIL (S=0.01%)	0.003179587	t/TJ

2020	NM VOC	1A3bi	MOTOR GASOLINE (S=0.001%)	0.024386131	t/TJ
2020	NM VOC	1A3bi	NATURAL GAS	0.003981384	t/TJ
2020	NM VOC	1A3bii	DIESEL OIL (S=001%)	0.018713785	t/TJ
2020	NM VOC	1A3bii	MOTOR GASOLINE (S=0.001%)	0.168929825	t/TJ
2020	NM VOC	1A3bii	NATURAL GAS	0.004462548	t/TJ
2020	NM VOC	1A3biii	DIESEL OIL (S=001%)	0.004527086	t/TJ
2020	NM VOC	1A3biii	NATURAL GAS	0.005379768	t/TJ
2020	NM VOC	1A3biv	DIESEL OIL (S=001%)	0.114985492	t/TJ
2020	NM VOC	1A3biv	MOTOR GASOLINE (S=0.001%)	0.642403971	t/TJ
2020	NM VOC	1A3c	GASOIL (FOR NON-ROAD USE)	0.087057440	t/TJ
2020	NM VOC	1A3dii	DIESEL OIL (S=001%)	0.067744327	t/TJ
2020	NM VOC	1A3dii	GASOIL (FOR NON-ROAD USE)	0.053893672	t/TJ
2020	NM VOC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.059078598	t/TJ
2020	NM VOC	1A3dii	MOTOR GASOLINE (S=0.001%)	1.802412460	t/TJ
2020	NM VOC	1A3ei	NATURAL GAS	0.001000000	t/TJ
2020	NM VOC	1A4ai	FOREST WOODFUEL	0.003000000	t/TJ
2020	NM VOC	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000066868	t/TJ
2020	NM VOC	1A4ai	HEAVY FUEL OIL (S<1%)	0.005000000	t/TJ
2020	NM VOC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.004965329	t/TJ
2020	NM VOC	1A4ai	NATURAL GAS	0.004704330	t/TJ
2020	NM VOC	1A4ai	SOD PEAT	0.160000000	t/TJ
2020	NM VOC	1A4aii	GASOIL (FOR NON-ROAD USE)	0.052334928	t/TJ
2020	NM VOC	1A4aii	MOTOR GASOLINE (S=0.001%)	0.379763862	t/TJ
2020	NM VOC	1A4bi	COAL (S=1.0%)	0.100000000	t/TJ
2020	NM VOC	1A4bi	FOREST WOODFUEL	0.368659192	t/TJ
2020	NM VOC	1A4bi	HEAVY FUEL OIL (S<1%)	0.005000000	t/TJ
2020	NM VOC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.005000000	t/TJ
2020	NM VOC	1A4bi	LIQUID GAS	0.005000000	t/TJ
2020	NM VOC	1A4bi	NATURAL GAS	0.005000000	t/TJ
2020	NM VOC	1A4bi	PARAFFIN	0.005000000	t/TJ
2020	NM VOC	1A4bi	SOD PEAT	0.200000000	t/TJ
2020	NM VOC	1A4bii	GASOIL (FOR NON-ROAD USE)	0.164837352	t/TJ
2020	NM VOC	1A4bii	MOTOR GASOLINE (S=0.001%)	1.217592278	t/TJ
2020	NM VOC	1A4ci	CHIPS FROM ROUNDWOOD	0.004000000	t/TJ
2020	NM VOC	1A4ci	COAL (S=1.0%)	0.004000000	t/TJ
2020	NM VOC	1A4ci	FOREST WOODFUEL	0.003000000	t/TJ
2020	NM VOC	1A4ci	HEAVY FUEL OIL (S<1%)	0.005000000	t/TJ
2020	NM VOC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.005000000	t/TJ
2020	NM VOC	1A4ci	LIQUID GAS	0.005000000	t/TJ
2020	NM VOC	1A4ci	OTHER NON-FOSSIL SOLID	0.004000000	t/TJ
2020	NM VOC	1A4ci	RECOVERED WOOD	0.003000000	t/TJ
2020	NM VOC	1A4ci	SOD PEAT	0.198826087	t/TJ
2020	NM VOC	1A4ci	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2020	NM VOC	1A4cii	GASOIL (FOR NON-ROAD USE)	0.043646029	t/TJ
2020	NM VOC	1A4cii	MOTOR GASOLINE (S=0.001%)	2.379842251	t/TJ
2020	NM VOC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.058139936	t/TJ
2020	NM VOC	1A5a	AVIATION GASOLINE	0.312500000	t/TJ
2020	NM VOC	1A5a	FOREST WOODFUEL	0.010000000	t/TJ
2020	NM VOC	1A5a	HEAVY FUEL OIL (S<1%)	0.005000000	t/TJ
2020	NM VOC	1A5a	KEROSENE (JET FUEL)	0.023222061	t/TJ
2020	NM VOC	1A5a	LANDFILL GAS	0.005000000	t/TJ
2020	NM VOC	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.009409486	t/TJ
2020	NM VOC	1A5a	LIQUID GAS	0.005000000	t/TJ
2020	NM VOC	1A5a	NATURAL GAS	0.005000000	t/TJ
2020	NM VOC	1A5a	OTHER PETROLEUM PRODUCTS	0.005000000	t/TJ

SOx Implied emission factors in Finnish air pollutant inventory for 2020

2020	SOx	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.007250647	t/TJ
2020	SOx	1A1a	ANIMAL-BASED FUELS	0.019613780	t/TJ
2020	SOx	1A1a	BARK	0.011085951	t/TJ
2020	SOx	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0.010000000	t/TJ
2020	SOx	1A1a	BLAST FURNACE GAS	0.000066536	t/TJ
2020	SOx	1A1a	CHIPS FROM ROUNDWOOD	0.007760920	t/TJ
2020	SOx	1A1a	COAL (S=1.0%)	0.071998790	t/TJ
2020	SOx	1A1a	COKE OVEN GAS	0.285154400	t/TJ
2020	SOx	1A1a	CREOSOTED WOOD	0.019907022	t/TJ
2020	SOx	1A1a	DEINKING WASTE	0.001198685	t/TJ
2020	SOx	1A1a	DEMOLITION WOOD	0.027399543	t/TJ
2020	SOx	1A1a	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.003153549	t/TJ
2020	SOx	1A1a	FOREST RESIDUE CHIPS	0.009116709	t/TJ
2020	SOx	1A1a	GASIFIED WASTE	0.005000000	t/TJ
2020	SOx	1A1a	GASOIL (FOR NON-ROAD USE)	0.035132337	t/TJ
2020	SOx	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.121423606	t/TJ
2020	SOx	1A1a	HEAVY FUEL OIL (S<1%)	0.175556057	t/TJ
2020	SOx	1A1a	HYDROGEN	0.000000213	t/TJ
2020	SOx	1A1a	INDUSTRIAL BIOGAS	0.007000000	t/TJ
2020	SOx	1A1a	INDUSTRIAL WASTE	0.028312616	t/TJ
2020	SOx	1A1a	LANDFILL GAS	0.013590921	t/TJ
2020	SOx	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.035672925	t/TJ
2020	SOx	1A1a	LIQUID GAS	0.000083787	t/TJ
2020	SOx	1A1a	MILLED PEAT	0.065338915	t/TJ
2020	SOx	1A1a	MUNICIPAL WASTE - unsorted	0.001132342	t/TJ
2020	SOx	1A1a	NATURAL GAS	0.000044655	t/TJ
2020	SOx	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.009848366	t/TJ
2020	SOx	1A1a	OTHER FOSSIL GAS	0.001908210	t/TJ
2020	SOx	1A1a	OTHER FOSSIL SOLID	0.126366442	t/TJ
2020	SOx	1A1a	OTHER HEAVY DISTILLATES	0.691000000	t/TJ
2020	SOx	1A1a	OTHER NON-FOSSIL GAS	0.022978772	t/TJ
2020	SOx	1A1a	OTHER NON-FOSSIL LIQUID	0.002973338	t/TJ
2020	SOx	1A1a	OTHER NON-FOSSIL SOLID	0.100959601	t/TJ
2020	SOx	1A1a	OTHER WASTE	0.029339735	t/TJ
2020	SOx	1A1a	OTHER WOOD RESIDUE	0.005724393	t/TJ
2020	SOx	1A1a	PAPER	0.003388296	t/TJ
2020	SOx	1A1a	PLASTIC WASTE	0.006188118	t/TJ
2020	SOx	1A1a	PLYWOOD RESIDUE	0.005176993	t/TJ
2020	SOx	1A1a	RECOVERED FUEL (REF 1)	0.029925674	t/TJ
2020	SOx	1A1a	RECOVERED FUEL (REF 2)	0.027668423	t/TJ
2020	SOx	1A1a	RECOVERED FUEL (REF 3)	0.004796080	t/TJ
2020	SOx	1A1a	RECOVERED WOOD	0.058086964	t/TJ
2020	SOx	1A1a	RECYCLED AND WASTE OILS	0.106106306	t/TJ
2020	SOx	1A1a	REFINERY GAS	0.000499477	t/TJ
2020	SOx	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000719884	t/TJ
2020	SOx	1A1a	SAWDUST AND CUTTER CHIPS	0.010436563	t/TJ
2020	SOx	1A1a	SOD PEAT	0.138966101	t/TJ
2020	SOx	1A1a	TALL PITCH AND OIL	0.270000000	t/TJ
2020	SOx	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012002302	t/TJ
2020	SOx	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.006007771	t/TJ
2020	SOx	1A1a	WOOD RESIDUE CHIPS	0.011507037	t/TJ
2020	SOx	1A1b	COKE (S=1.0%)	2.122418451	t/TJ

2020	SOx	1A1b	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A1b	GASOIL (FOR NON-ROAD USE)	0.043000000	t/TJ
2020	SOx	1A1b	HEAVY FUEL OIL (S<1%)	11.901140303	t/TJ
2020	SOx	1A1b	INDUSTRIAL BIOGAS	0.002885444	t/TJ
2020	SOx	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.009137411	t/TJ
2020	SOx	1A1b	LIQUID GAS	0.000021178	t/TJ
2020	SOx	1A1b	NATURAL GAS	0.002728267	t/TJ
2020	SOx	1A1b	OTHER FOSSIL GAS	0.001597287	t/TJ
2020	SOx	1A1b	OTHER FOSSIL LIQUID	0.144089898	t/TJ
2020	SOx	1A1b	OTHER MEDIUM DISTILLATES	0.012333262	t/TJ
2020	SOx	1A1b	PETROLEUM COKE	0.073001431	t/TJ
2020	SOx	1A1b	REFINERY GAS	0.116069190	t/TJ
2020	SOx	1A2a	BLAST FURNACE GAS	0.000011523	t/TJ
2020	SOx	1A2a	COKE (S=1.0%)	0.223647538	t/TJ
2020	SOx	1A2a	COKE OVEN GAS	0.011002284	t/TJ
2020	SOx	1A2a	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A2a	GASOIL (FOR NON-ROAD USE)	0.040014925	t/TJ
2020	SOx	1A2a	HEAVY FUEL OIL (S<1%)	0.223187802	t/TJ
2020	SOx	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.128802077	t/TJ
2020	SOx	1A2a	LIQUID GAS	0.000001641	t/TJ
2020	SOx	1A2a	NATURAL GAS	0.000037752	t/TJ
2020	SOx	1A2a	OTHER FOSSIL GAS	0.001976255	t/TJ
2020	SOx	1A2a	OTHER FOSSIL SOLID	0.018775130	t/TJ
2020	SOx	1A2a	OXYGEN STEEL FURNACE GAS	0.001665663	t/TJ
2020	SOx	1A2a	WOOD RESIDUE CHIPS	0.010664960	t/TJ
2020	SOx	1A2b	COAL (S=1.0%)	9.058526435	t/TJ
2020	SOx	1A2b	COKE (S=1.0%)	5.479315235	t/TJ
2020	SOx	1A2b	GASOIL (FOR NON-ROAD USE)	0.043000000	t/TJ
2020	SOx	1A2b	HEAVY FUEL OIL (S<1%)	2.327778817	t/TJ
2020	SOx	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.076056999	t/TJ
2020	SOx	1A2b	LIQUID GAS	0.001477566	t/TJ
2020	SOx	1A2b	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A2b	OTHER HEAVY DISTILLATES	5.543494622	t/TJ
2020	SOx	1A2c	COAL (S=1.0%)	0.230000000	t/TJ
2020	SOx	1A2c	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A2c	GASIFIED WASTE	0.000654789	t/TJ
2020	SOx	1A2c	GASOIL (FOR NON-ROAD USE)	0.043000000	t/TJ
2020	SOx	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.114204815	t/TJ
2020	SOx	1A2c	HEAVY FUEL OIL (S<1%)	0.299150021	t/TJ
2020	SOx	1A2c	HYDROGEN	0.000000200	t/TJ
2020	SOx	1A2c	INDUSTRIAL BIOGAS	0.007000000	t/TJ
2020	SOx	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.511929295	t/TJ
2020	SOx	1A2c	LIQUID GAS	0.000002419	t/TJ
2020	SOx	1A2c	NATURAL GAS	0.002743008	t/TJ
2020	SOx	1A2c	OTHER FOSSIL GAS	0.003700000	t/TJ
2020	SOx	1A2c	OTHER FOSSIL LIQUID	0.127460707	t/TJ
2020	SOx	1A2c	OTHER HEAVY DISTILLATES	0.007175113	t/TJ
2020	SOx	1A2c	OTHER NON-FOSSIL GAS	0.010000000	t/TJ
2020	SOx	1A2c	REFINERY GAS	0.000271966	t/TJ
2020	SOx	1A2c	TALL PITCH AND OIL	0.018743120	t/TJ
2020	SOx	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010000000	t/TJ
2020	SOx	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.007603071	t/TJ
2020	SOx	1A2d	ANIMAL-BASED FUELS	0.027579426	t/TJ
2020	SOx	1A2d	AROMATIC GAS	0.381292911	t/TJ
2020	SOx	1A2d	BARK	0.011747910	t/TJ
2020	SOx	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.000922845	t/TJ

2020	SOx	1A2d	BLACK LIQUOR	0.002217109	t/TJ
2020	SOx	1A2d	CHIPS FROM ROUNDWOOD	0.005069896	t/TJ
2020	SOx	1A2d	COAL (S=1.0%)	0.083369901	t/TJ
2020	SOx	1A2d	CREOSOTED WOOD	0.005515885	t/TJ
2020	SOx	1A2d	DEMOLITION WOOD	0.020224912	t/TJ
2020	SOx	1A2d	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A2d	FOREST RESIDUE CHIPS	0.007389488	t/TJ
2020	SOx	1A2d	GASOIL (FOR NON-ROAD USE)	1.830749349	t/TJ
2020	SOx	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.056602998	t/TJ
2020	SOx	1A2d	HEAVY FUEL OIL (S<1%)	0.041626342	t/TJ
2020	SOx	1A2d	HYDROGEN	0.000000001	t/TJ
2020	SOx	1A2d	INDUSTRIAL BIOGAS	0.007000000	t/TJ
2020	SOx	1A2d	INDUSTRIAL WASTE	0.389630393	t/TJ
2020	SOx	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.247631819	t/TJ
2020	SOx	1A2d	LIQUID GAS	0.000013347	t/TJ
2020	SOx	1A2d	METHANOL	0.014163112	t/TJ
2020	SOx	1A2d	MILLED PEAT	0.067075365	t/TJ
2020	SOx	1A2d	NATURAL GAS	0.000029294	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	SOx	1A2d	TRY	0.020000000	t/TJ
2020	SOx	1A2d	OTHER FOSSIL SOLID	0.001749379	t/TJ
2020	SOx	1A2d	OTHER HEAVY DISTILLATES	0.660982039	t/TJ
2020	SOx	1A2d	OTHER NON-FOSSIL LIQUID	1.426477112	t/TJ
2020	SOx	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.012185527	t/TJ
2020	SOx	1A2d	PAPER	0.002338507	t/TJ
2020	SOx	1A2d	PLASTIC WASTE	0.052279573	t/TJ
2020	SOx	1A2d	RECOVERED FUEL (REF 1)	0.011193306	t/TJ
2020	SOx	1A2d	RECOVERED FUEL (REF 2)	0.020224912	t/TJ
2020	SOx	1A2d	RECOVERED WOOD	0.023943949	t/TJ
2020	SOx	1A2d	RECYCLED AND WASTE OILS	0.036772568	t/TJ
2020	SOx	1A2d	SAWDUST AND CUTTER CHIPS	0.004294356	t/TJ
2020	SOx	1A2d	SULPHITE LIQUOR	0.002083874	t/TJ
2020	SOx	1A2d	TALL PITCH AND OIL	0.007920052	t/TJ
2020	SOx	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.023566694	t/TJ
2020	SOx	1A2d	WOOD RESIDUE CHIPS	0.012597007	t/TJ
2020	SOx	1A2e	ANIMAL-BASED FUELS	0.079045117	t/TJ
2020	SOx	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.000520709	t/TJ
2020	SOx	1A2e	CHIPS FROM ROUNDWOOD	0.019642205	t/TJ
2020	SOx	1A2e	COAL (S=1.0%)	0.436056699	t/TJ
2020	SOx	1A2e	COKE (S=1.0%)	0.365405000	t/TJ
2020	SOx	1A2e	DIESEL OIL (S=001%)	0.000470000	t/TJ
2020	SOx	1A2e	GASOIL (FOR NON-ROAD USE)	0.042734729	t/TJ
2020	SOx	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.004597701	t/TJ
2020	SOx	1A2e	HEAVY FUEL OIL (S<1%)	0.723572230	t/TJ
2020	SOx	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.047526548	t/TJ
2020	SOx	1A2e	LIQUID GAS	0.000608722	t/TJ
2020	SOx	1A2e	MILLED PEAT	0.126561808	t/TJ
2020	SOx	1A2e	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A2e	OTHER NON-FOSSIL GAS	0.007185093	t/TJ
2020	SOx	1A2e	OTHER NON-FOSSIL LIQUID	1.995340168	t/TJ
2020	SOx	1A2e	OTHER NON-FOSSIL SOLID	0.150000000	t/TJ
2020	SOx	1A2e	PEAT PELLETS AND BRIQUETTES	0.106902226	t/TJ
2020	SOx	1A2e	RECOVERED WOOD	0.114538099	t/TJ
2020	SOx	1A2e	SAWDUST AND CUTTER CHIPS	0.015783426	t/TJ
2020	SOx	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010000000	t/TJ
2020	SOx	1A2e	WOOD RESIDUE CHIPS	0.020000000	t/TJ
2020	SOx	1A2f	CHIPS FROM ROUNDWOOD	0.005212715	t/TJ

2020	SOx	1A2f	COAL (S=1.0%)	0.169089583	t/TJ
2020	SOx	1A2f	COKE (S=1.0%)	0.517174759	t/TJ
2020	SOx	1A2f	COKE OVEN GAS	0.007518661	t/TJ
2020	SOx	1A2f	DIESEL OIL (S=001%)	0.015371104	t/TJ
2020	SOx	1A2f	FOREST RESIDUE CHIPS	0.015366724	t/TJ
2020	SOx	1A2f	GASOIL (FOR NON-ROAD USE)	0.042850875	t/TJ
2020	SOx	1A2f	HEAVY FUEL OIL (S<1%)	0.172053865	t/TJ
2020	SOx	1A2f	INDUSTRIAL BIOGAS	0.007000000	t/TJ
2020	SOx	1A2f	INDUSTRIAL WASTE	0.000660012	t/TJ
2020	SOx	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.044719519	t/TJ
2020	SOx	1A2f	LIQUID GAS	0.062111421	t/TJ
2020	SOx	1A2f	NATURAL GAS	0.004691210	t/TJ
2020	SOx	1A2f	OTHER FOSSIL GAS	0.003700000	t/TJ
2020	SOx	1A2f	OTHER FOSSIL SOLID	0.000492546	t/TJ
2020	SOx	1A2f	OTHER HEAVY DISTILLATES	0.037623370	t/TJ
2020	SOx	1A2f	OTHER NON-FOSSIL GAS	0.010000000	t/TJ
2020	SOx	1A2f	OTHER WASTE	0.000197018	t/TJ
2020	SOx	1A2f	OXYGEN STEEL FURNACE GAS	0.000007000	t/TJ
2020	SOx	1A2f	PETROLEUM COKE	0.006238304	t/TJ
2020	SOx	1A2f	RECOVERED FUEL (REF 1)	0.002407755	t/TJ
2020	SOx	1A2f	RECOVERED WOOD	0.115250430	t/TJ
2020	SOx	1A2f	RECYCLED AND WASTE OILS	0.245849517	t/TJ
2020	SOx	1A2f	RUBBER WASTE	0.000896434	t/TJ
2020	SOx	1A2f	SAWDUST AND CUTTER CHIPS	0.011886177	t/TJ
2020	SOx	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ
2020	SOx	1A2gvii	LIQUID GAS	0.000032544	t/TJ
2020	SOx	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.021741723	t/TJ
2020	SOx	1A2gviii	BARK	0.026401067	t/TJ
2020	SOx	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.033384669	t/TJ
2020	SOx	1A2gviii	CHIPS FROM ROUNDWOOD	0.004238179	t/TJ
2020	SOx	1A2gviii	CREOSOTED WOOD	0.000752030	t/TJ
2020	SOx	1A2gviii	DEMOLITION WOOD	0.002602999	t/TJ
2020	SOx	1A2gviii	DIESEL OIL (S=001%)	0.022264571	t/TJ
2020	SOx	1A2gviii	FOREST RESIDUE CHIPS	0.007873308	t/TJ
2020	SOx	1A2gviii	GASIFIED WASTE	0.005000000	t/TJ
2020	SOx	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.040690230	t/TJ
2020	SOx	1A2gviii	HAZARDOUS WASTE	0.002250705	t/TJ
2020	SOx	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	1.028293751	t/TJ
2020	SOx	1A2gviii	HEAVY FUEL OIL (S<1%)	0.401566533	t/TJ
2020	SOx	1A2gviii	INDUSTRIAL BIOGAS	0.007000000	t/TJ
2020	SOx	1A2gviii	LANDFILL GAS	0.017000000	t/TJ
2020	SOx	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.042215012	t/TJ
2020	SOx	1A2gviii	LIQUID GAS	0.000205339	t/TJ
2020	SOx	1A2gviii	MILLED PEAT	0.052090931	t/TJ
2020	SOx	1A2gviii	MUNICIPAL WASTE - unsorted	0.003823621	t/TJ
2020	SOx	1A2gviii	NATURAL GAS	0.012145999	t/TJ
2020	SOx	1A2gviii	OTHER HEAVY DISTILLATES	0.041976406	t/TJ
2020	SOx	1A2gviii	OTHER NON-FOSSIL GAS	0.010802813	t/TJ
2020	SOx	1A2gviii	OTHER NON-FOSSIL LIQUID	1.184778706	t/TJ
2020	SOx	1A2gviii	OTHER NON-FOSSIL SOLID	0.040546970	t/TJ
2020	SOx	1A2gviii	OTHER WASTE	0.003931111	t/TJ
2020	SOx	1A2gviii	OTHER WOOD RESIDUE	0.024390888	t/TJ
2020	SOx	1A2gviii	PLASTIC WASTE	0.004757630	t/TJ
2020	SOx	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.012641283	t/TJ
2020	SOx	1A2gviii	RECOVERED FUEL (REF 2)	0.008288882	t/TJ

2020	SOx	1A2gviii	RECOVERED WOOD	0.117708013	t/TJ
2020	SOx	1A2gviii	RECYCLED AND WASTE OILS	0.008092363	t/TJ
2020	SOx	1A2gviii	SALT TREATED WOOD	0.000744621	t/TJ
2020	SOx	1A2gviii	SAWDUST AND CUTTER CHIPS	0.013900954	t/TJ
2020	SOx	1A2gviii	SOD PEAT	0.201204260	t/TJ
2020	SOx	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.022443488	t/TJ
2020	SOx	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.009897889	t/TJ
2020	SOx	1A2gviii	WOOD RESIDUE CHIPS	0.013963800	t/TJ
2020	SOx	1A3ai(i)	KEROSENE (JET FUEL)	0.019400000	t/TJ
2020	SOx	1A3aii(i)	AVIATION GASOLINE	0.000920000	t/TJ
2020	SOx	1A3aii(i)	KEROSENE (JET FUEL)	0.019399536	t/TJ
2020	SOx	1A3bi	DIESEL OIL (S=001%)	0.000249742	t/TJ
2020	SOx	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000339882	t/TJ
2020	SOx	1A3bi	NATURAL GAS	0.000030121	t/TJ
2020	SOx	1A3bii	DIESEL OIL (S=001%)	0.000249742	t/TJ
2020	SOx	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A3bii	NATURAL GAS	0.000030121	t/TJ
2020	SOx	1A3biii	DIESEL OIL (S=001%)	0.000249742	t/TJ
2020	SOx	1A3biii	NATURAL GAS	0.000030121	t/TJ
2020	SOx	1A3biv	DIESEL OIL (S=001%)	0.000241643	t/TJ
2020	SOx	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A3c	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ
2020	SOx	1A3dii	DIESEL OIL (S=001%)	0.000249762	t/TJ
2020	SOx	1A3dii	GASOIL (FOR NON-ROAD USE)	0.011697375	t/TJ
2020	SOx	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.044162877	t/TJ
2020	SOx	1A3dii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A3ei	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A4ai	FOREST WOODFUEL	0.005000000	t/TJ
2020	SOx	1A4ai	GASOIL (FOR NON-ROAD USE)	0.020338001	t/TJ
2020	SOx	1A4ai	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2020	SOx	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.043017704	t/TJ
2020	SOx	1A4ai	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A4ai	SOD PEAT	0.180000000	t/TJ
2020	SOx	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ
2020	SOx	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A4bi	COAL (S=1.0%)	0.313500000	t/TJ
2020	SOx	1A4bi	FOREST WOODFUEL	0.005000000	t/TJ
2020	SOx	1A4bi	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2020	SOx	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.043000000	t/TJ
2020	SOx	1A4bi	LIQUID GAS	0.000009000	t/TJ
2020	SOx	1A4bi	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A4bi	PARAFFIN	0.009300000	t/TJ
2020	SOx	1A4bi	SOD PEAT	0.180000000	t/TJ
2020	SOx	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ
2020	SOx	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A4ci	CHIPS FROM ROUNDWOOD	0.040534027	t/TJ
2020	SOx	1A4ci	COAL (S=1.0%)	0.627000000	t/TJ
2020	SOx	1A4ci	FOREST WOODFUEL	0.005000000	t/TJ
2020	SOx	1A4ci	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2020	SOx	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.043000000	t/TJ
2020	SOx	1A4ci	LIQUID GAS	0.000009000	t/TJ
2020	SOx	1A4ci	OTHER NON-FOSSIL SOLID	0.150000000	t/TJ
2020	SOx	1A4ci	RECOVERED WOOD	0.378548896	t/TJ
2020	SOx	1A4ci	SOD PEAT	0.180000000	t/TJ
2020	SOx	1A4ci	WOOD RESIDUE CHIPS	0.003401361	t/TJ
2020	SOx	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ

2020	SOx	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000341223	t/TJ
2020	SOx	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000277778	t/TJ
2020	SOx	1A5a	FOREST WOODFUEL	0.020000000	t/TJ
2020	SOx	1A5a	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2020	SOx	1A5a	KEROSENE (JET FUEL)	0.018384132	t/TJ
2020	SOx	1A5a	LANDFILL GAS	0.017000000	t/TJ
2020	SOx	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.045748932	t/TJ
2020	SOx	1A5a	LIQUID GAS	0.000009000	t/TJ
2020	SOx	1A5a	NATURAL GAS	0.000040000	t/TJ
2020	SOx	1A5a	OTHER PETROLEUM PRODUCTS	0.100000000	t/TJ

NH3 Implied emission factors in Finnish air pollutant inventory for 2020

2020	NH3	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000185185	t/TJ
2020	NH3	1A2gvii	LIQUID GAS	0.000217391	t/TJ
2020	NH3	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000095652	t/TJ
2020	NH3	1A3bi	DIESEL OIL (S=001%)	0.000863452	t/TJ
2020	NH3	1A3bi	MOTOR GASOLINE (S=0.001%)	0.012299351	t/TJ
2020	NH3	1A3bi	NATURAL GAS	0.011782181	t/TJ
2020	NH3	1A3bii	DIESEL OIL (S=001%)	0.000684994	t/TJ
2020	NH3	1A3bii	MOTOR GASOLINE (S=0.001%)	0.008912660	t/TJ
2020	NH3	1A3bii	NATURAL GAS	0.009134405	t/TJ
2020	NH3	1A3biii	DIESEL OIL (S=001%)	0.000505178	t/TJ
2020	NH3	1A3biii	NATURAL GAS	0.001818361	t/TJ
2020	NH3	1A3biv	DIESEL OIL (S=001%)	0.000788909	t/TJ
2020	NH3	1A3biv	MOTOR GASOLINE (S=0.001%)	0.001225750	t/TJ
2020	NH3	1A3c	GASOIL (FOR NON-ROAD USE)	0.000162037	t/TJ
2020	NH3	1A3dii	DIESEL OIL (S=001%)	0.000184534	t/TJ
2020	NH3	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000183429	t/TJ
2020	NH3	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000194775	t/TJ
2020	NH3	1A3dii	MOTOR GASOLINE (S=0.001%)	0.000112391	t/TJ
2020	NH3	1A4ai	FOREST WOODFUEL	0.001672269	t/TJ
2020	NH3	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000185185	t/TJ
2020	NH3	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000085710	t/TJ
2020	NH3	1A4bi	COAL (S=1.0%)	0.000150000	t/TJ
2020	NH3	1A4bi	FOREST WOODFUEL	0.020895492	t/TJ
2020	NH3	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000185185	t/TJ
2020	NH3	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000087643	t/TJ
2020	NH3	1A4ci	FOREST WOODFUEL	0.001700900	t/TJ
2020	NH3	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000185185	t/TJ
2020	NH3	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000071943	t/TJ
2020	NH3	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000182870	t/TJ
2020	NH3	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000018636	t/TJ

PM 2.5 Implied emission factors in Finnish air pollutant inventory for 2020

2020	PM 2.5	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000187258	t/TJ
2020	PM 2.5	1A1a	ANIMAL-BASED FUELS	0.000050136	t/TJ
2020	PM 2.5	1A1a	BARK	0.000978924	t/TJ
2020	PM 2.5	1A1a	CHIPS FROM ROUNDWOOD	0.001846746	t/TJ
2020	PM 2.5	1A1a	COAL (S=1.0%)	0.000438463	t/TJ
2020	PM 2.5	1A1a	CREOSOTED WOOD	0.000362593	t/TJ
2020	PM 2.5	1A1a	DEINKING WASTE	0.000005036	t/TJ
2020	PM 2.5	1A1a	DEMOLITION WOOD	0.000658592	t/TJ
2020	PM 2.5	1A1a	DIESEL OIL (S=001%)	0.002181697	t/TJ
2020	PM 2.5	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000134911	t/TJ
2020	PM 2.5	1A1a	FOREST RESIDUE CHIPS	0.001309821	t/TJ
2020	PM 2.5	1A1a	GASOIL (FOR NON-ROAD USE)	0.004848404	t/TJ
2020	PM 2.5	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.007023365	t/TJ
2020	PM 2.5	1A1a	HEAVY FUEL OIL (S<1%)	0.007126288	t/TJ
2020	PM 2.5	1A1a	INDUSTRIAL WASTE	0.000036882	t/TJ
2020	PM 2.5	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.004092182	t/TJ
2020	PM 2.5	1A1a	MILLED PEAT	0.000733697	t/TJ
2020	PM 2.5	1A1a	MUNICIPAL WASTE - unsorted	0.000044504	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
			TRY	0.000892905	t/TJ
2020	PM 2.5	1A1a	OTHER FOSSIL SOLID	0.000253684	t/TJ
2020	PM 2.5	1A1a	OTHER HEAVY DISTILLATES	0.042000000	t/TJ
2020	PM 2.5	1A1a	OTHER NON-FOSSIL LIQUID	0.000966955	t/TJ
2020	PM 2.5	1A1a	OTHER NON-FOSSIL SOLID	0.004009938	t/TJ
2020	PM 2.5	1A1a	OTHER WASTE	0.000127160	t/TJ
2020	PM 2.5	1A1a	OTHER WOOD RESIDUE	0.000341036	t/TJ
2020	PM 2.5	1A1a	PAPER	0.000075315	t/TJ
2020	PM 2.5	1A1a	PLASTIC WASTE	0.000040498	t/TJ
2020	PM 2.5	1A1a	PLYWOOD RESIDUE	0.000066738	t/TJ
2020	PM 2.5	1A1a	RECOVERED FUEL (REF 1)	0.000338860	t/TJ
2020	PM 2.5	1A1a	RECOVERED FUEL (REF 2)	0.000346190	t/TJ
2020	PM 2.5	1A1a	RECOVERED FUEL (REF 3)	0.000023258	t/TJ
2020	PM 2.5	1A1a	RECOVERED WOOD	0.000707911	t/TJ
2020	PM 2.5	1A1a	RECYCLED AND WASTE OILS	0.000614178	t/TJ
2020	PM 2.5	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000033731	t/TJ
2020	PM 2.5	1A1a	SAWDUST AND CUTTER CHIPS	0.002784367	t/TJ
2020	PM 2.5	1A1a	SOD PEAT	0.009525359	t/TJ
2020	PM 2.5	1A1a	TALL PITCH AND OIL	0.042000000	t/TJ
2020	PM 2.5	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001695045	t/TJ
2020	PM 2.5	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.002116323	t/TJ
2020	PM 2.5	1A1a	WOOD RESIDUE CHIPS	0.002010798	t/TJ
2020	PM 2.5	1A1b	COKE (S=1.0%)	0.007500000	t/TJ
2020	PM 2.5	1A1b	DIESEL OIL (S=001%)	0.000840000	t/TJ
2020	PM 2.5	1A1b	GASOIL (FOR NON-ROAD USE)	0.000840000	t/TJ
2020	PM 2.5	1A1b	HEAVY FUEL OIL (S<1%)	0.042000000	t/TJ
2020	PM 2.5	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000263994	t/TJ
2020	PM 2.5	1A1b	OTHER FOSSIL LIQUID	0.000261499	t/TJ
2020	PM 2.5	1A1b	OTHER MEDIUM DISTILLATES	0.000256454	t/TJ
2020	PM 2.5	1A1b	PETROLEUM COKE	0.000981447	t/TJ
2020	PM 2.5	1A2a	COKE (S=1.0%)	0.001794144	t/TJ
2020	PM 2.5	1A2a	DIESEL OIL (S=001%)	0.000840000	t/TJ
2020	PM 2.5	1A2a	GASOIL (FOR NON-ROAD USE)	0.000378743	t/TJ
2020	PM 2.5	1A2a	HEAVY FUEL OIL (S<1%)	0.009307500	t/TJ
2020	PM 2.5	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000908099	t/TJ

2020	PM 2.5	1A2a	OTHER FOSSIL SOLID	0.002563254	t/TJ
2020	PM 2.5	1A2a	WOOD RESIDUE CHIPS	0.006505626	t/TJ
2020	PM 2.5	1A2b	COAL (S=1.0%)	0.007077103	t/TJ
2020	PM 2.5	1A2b	COKE (S=1.0%)	0.000595828	t/TJ
2020	PM 2.5	1A2b	GASOIL (FOR NON-ROAD USE)	0.000840000	t/TJ
2020	PM 2.5	1A2b	HEAVY FUEL OIL (S<1%)	0.007297997	t/TJ
2020	PM 2.5	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000116917	t/TJ
2020	PM 2.5	1A2b	OTHER HEAVY DISTILLATES	0.003336638	t/TJ
2020	PM 2.5	1A2c	COAL (S=1.0%)	0.002500000	t/TJ
2020	PM 2.5	1A2c	DIESEL OIL (S=001%)	0.000840000	t/TJ
2020	PM 2.5	1A2c	GASOIL (FOR NON-ROAD USE)	0.001156890	t/TJ
2020	PM 2.5	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.003029457	t/TJ
2020	PM 2.5	1A2c	HEAVY FUEL OIL (S<1%)	0.019835635	t/TJ
2020	PM 2.5	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.002155463	t/TJ
2020	PM 2.5	1A2c	OTHER FOSSIL LIQUID	0.042000000	t/TJ
2020	PM 2.5	1A2c	OTHER HEAVY DISTILLATES	0.000444069	t/TJ
2020	PM 2.5	1A2c	TALL PITCH AND OIL	0.001306415	t/TJ
2020	PM 2.5	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001206133	t/TJ
2020	PM 2.5	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000574212	t/TJ
2020	PM 2.5	1A2d	ANIMAL-BASED FUELS	0.000825311	t/TJ
2020	PM 2.5	1A2d	BARK	0.002874350	t/TJ
2020	PM 2.5	1A2d	BLACK LIQUOR	0.005569137	t/TJ
2020	PM 2.5	1A2d	CHIPS FROM ROUNDWOOD	0.008498978	t/TJ
2020	PM 2.5	1A2d	COAL (S=1.0%)	0.000262575	t/TJ
2020	PM 2.5	1A2d	CREOSOTED WOOD	0.000825311	t/TJ
2020	PM 2.5	1A2d	DEMOLITION WOOD	0.000866577	t/TJ
2020	PM 2.5	1A2d	DIESEL OIL (S=001%)	0.000840000	t/TJ
2020	PM 2.5	1A2d	FOREST RESIDUE CHIPS	0.000353734	t/TJ
2020	PM 2.5	1A2d	GASOIL (FOR NON-ROAD USE)	0.002861987	t/TJ
2020	PM 2.5	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.001739035	t/TJ
2020	PM 2.5	1A2d	HEAVY FUEL OIL (S<1%)	0.004946106	t/TJ
2020	PM 2.5	1A2d	HYDROGEN	0.000715202	t/TJ
2020	PM 2.5	1A2d	INDUSTRIAL WASTE	0.004535738	t/TJ
2020	PM 2.5	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000582691	t/TJ
2020	PM 2.5	1A2d	LIQUID GAS	0.000000057	t/TJ
2020	PM 2.5	1A2d	METHANOL	0.002553060	t/TJ
2020	PM 2.5	1A2d	MILLED PEAT	0.001418584	t/TJ
2020	PM 2.5	1A2d	NATURAL GAS	0.000413396	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	PM 2.5	1A2d	TRY	0.000840338	t/TJ
2020	PM 2.5	1A2d	OTHER FOSSIL SOLID	0.001603597	t/TJ
2020	PM 2.5	1A2d	OTHER HEAVY DISTILLATES	0.002436759	t/TJ
2020	PM 2.5	1A2d	OTHER NON-FOSSIL LIQUID	0.027466192	t/TJ
2020	PM 2.5	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000421350	t/TJ
2020	PM 2.5	1A2d	PAPER	0.000067883	t/TJ
2020	PM 2.5	1A2d	PLASTIC WASTE	0.000253381	t/TJ
2020	PM 2.5	1A2d	RECOVERED FUEL (REF 1)	0.000284992	t/TJ
2020	PM 2.5	1A2d	RECOVERED FUEL (REF 2)	0.000866577	t/TJ
2020	PM 2.5	1A2d	RECOVERED WOOD	0.000508659	t/TJ
2020	PM 2.5	1A2d	RECYCLED AND WASTE OILS	0.001661928	t/TJ
2020	PM 2.5	1A2d	SAWDUST AND CUTTER CHIPS	0.012929346	t/TJ
2020	PM 2.5	1A2d	SULPHITE LIQUOR	0.006945221	t/TJ
2020	PM 2.5	1A2d	TALL PITCH AND OIL	0.000493107	t/TJ
2020	PM 2.5	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001204061	t/TJ
2020	PM 2.5	1A2d	WOOD RESIDUE CHIPS	0.000444231	t/TJ
2020	PM 2.5	1A2e	ANIMAL-BASED FUELS	0.001325832	t/TJ
2020	PM 2.5	1A2e	CHIPS FROM ROUNDWOOD	0.001762981	t/TJ

2020	PM 2.5	1A2e	COAL (S=1.0%)	0.001304604	t/TJ
2020	PM 2.5	1A2e	COKE (S=1.0%)	0.007500000	t/TJ
2020	PM 2.5	1A2e	DIESEL OIL (S=001%)	0.000840000	t/TJ
2020	PM 2.5	1A2e	GASOIL (FOR NON-ROAD USE)	0.000696242	t/TJ
2020	PM 2.5	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000257471	t/TJ
2020	PM 2.5	1A2e	HEAVY FUEL OIL (S<1%)	0.026227790	t/TJ
2020	PM 2.5	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.000493177	t/TJ
2020	PM 2.5	1A2e	MILLED PEAT	0.000553903	t/TJ
2020	PM 2.5	1A2e	OTHER NON-FOSSIL LIQUID	0.003183597	t/TJ
2020	PM 2.5	1A2e	OTHER NON-FOSSIL SOLID	0.003500000	t/TJ
2020	PM 2.5	1A2e	PEAT PELLETS AND BRIQUETTES	0.000484730	t/TJ
2020	PM 2.5	1A2e	RECOVERED WOOD	0.000484730	t/TJ
2020	PM 2.5	1A2e	SAWDUST AND CUTTER CHIPS	0.002190492	t/TJ
2020	PM 2.5	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010000000	t/TJ
2020	PM 2.5	1A2e	WOOD RESIDUE CHIPS	0.003500000	t/TJ
2020	PM 2.5	1A2f	CHIPS FROM ROUNDWOOD	0.014492773	t/TJ
2020	PM 2.5	1A2f	COAL (S=1.0%)	0.001407516	t/TJ
2020	PM 2.5	1A2f	COKE (S=1.0%)	0.003323460	t/TJ
2020	PM 2.5	1A2f	DIESEL OIL (S=001%)	0.000561279	t/TJ
2020	PM 2.5	1A2f	FOREST RESIDUE CHIPS	0.007694565	t/TJ
2020	PM 2.5	1A2f	GASOIL (FOR NON-ROAD USE)	0.000827874	t/TJ
2020	PM 2.5	1A2f	HEAVY FUEL OIL (S<1%)	0.023619320	t/TJ
2020	PM 2.5	1A2f	INDUSTRIAL WASTE	0.000225786	t/TJ
2020	PM 2.5	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000950360	t/TJ
2020	PM 2.5	1A2f	OTHER FOSSIL SOLID	0.000161276	t/TJ
2020	PM 2.5	1A2f	OTHER HEAVY DISTILLATES	0.011131732	t/TJ
2020	PM 2.5	1A2f	OTHER WASTE	0.000168160	t/TJ
2020	PM 2.5	1A2f	PETROLEUM COKE	0.002788717	t/TJ
2020	PM 2.5	1A2f	RECOVERED FUEL (REF 1)	0.000206847	t/TJ
2020	PM 2.5	1A2f	RECOVERED WOOD	0.002693098	t/TJ
2020	PM 2.5	1A2f	RECYCLED AND WASTE OILS	0.000887767	t/TJ
2020	PM 2.5	1A2f	RUBBER WASTE	0.002290113	t/TJ
2020	PM 2.5	1A2f	SAWDUST AND CUTTER CHIPS	0.001088533	t/TJ
2020	PM 2.5	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.018262231	t/TJ
2020	PM 2.5	1A2gvii	LIQUID GAS	0.004135802	t/TJ
2020	PM 2.5	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.003938940	t/TJ
2020	PM 2.5	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000202795	t/TJ
2020	PM 2.5	1A2gviii	BARK	0.026174664	t/TJ
2020	PM 2.5	1A2gviii	CHIPS FROM ROUNDWOOD	0.008697007	t/TJ
2020	PM 2.5	1A2gviii	CREOSOTED WOOD	0.000330738	t/TJ
2020	PM 2.5	1A2gviii	DEMOLITION WOOD	0.000264252	t/TJ
2020	PM 2.5	1A2gviii	DIESEL OIL (S=001%)	0.001277357	t/TJ
2020	PM 2.5	1A2gviii	FOREST RESIDUE CHIPS	0.005563781	t/TJ
2020	PM 2.5	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.000855704	t/TJ
2020	PM 2.5	1A2gviii	HAZARDOUS WASTE	0.000061860	t/TJ
2020	PM 2.5	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.014759036	t/TJ
2020	PM 2.5	1A2gviii	HEAVY FUEL OIL (S<1%)	0.025761903	t/TJ
2020	PM 2.5	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.003034427	t/TJ
2020	PM 2.5	1A2gviii	MILLED PEAT	0.000218999	t/TJ
2020	PM 2.5	1A2gviii	MUNICIPAL WASTE - unsorted	0.000089168	t/TJ
2020	PM 2.5	1A2gviii	OTHER HEAVY DISTILLATES	0.014026880	t/TJ
2020	PM 2.5	1A2gviii	OTHER NON-FOSSIL LIQUID	0.005645428	t/TJ
2020	PM 2.5	1A2gviii	OTHER NON-FOSSIL SOLID	0.000892437	t/TJ
2020	PM 2.5	1A2gviii	OTHER WASTE	0.000256241	t/TJ
2020	PM 2.5	1A2gviii	OTHER WOOD RESIDUE	0.002157607	t/TJ
2020	PM 2.5	1A2gviii	PLASTIC WASTE	0.000209087	t/TJ

2020	PM 2.5	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.001005379	t/TJ
2020	PM 2.5	1A2gviii	RECOVERED FUEL (REF 2)	0.000149935	t/TJ
2020	PM 2.5	1A2gviii	RECOVERED WOOD	0.001164899	t/TJ
2020	PM 2.5	1A2gviii	RECYCLED AND WASTE OILS	0.000000063	t/TJ
2020	PM 2.5	1A2gviii	SALT TREATED WOOD	0.000343121	t/TJ
2020	PM 2.5	1A2gviii	SAWDUST AND CUTTER CHIPS	0.036069022	t/TJ
2020	PM 2.5	1A2gviii	SOD PEAT	0.002899327	t/TJ
2020	PM 2.5	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.011057650	t/TJ
2020	PM 2.5	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.007075511	t/TJ
2020	PM 2.5	1A2gviii	WOOD RESIDUE CHIPS	0.004702689	t/TJ
2020	PM 2.5	1A3ai(i)	KEROSENE (JET FUEL)	0.002279235	t/TJ
2020	PM 2.5	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2020	PM 2.5	1A3aii(i)	KEROSENE (JET FUEL)	0.002204387	t/TJ
2020	PM 2.5	1A3bi	DIESEL OIL (S=001%)	0.006576181	t/TJ
2020	PM 2.5	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000643213	t/TJ
2020	PM 2.5	1A3bi	NATURAL GAS	0.000410834	t/TJ
2020	PM 2.5	1A3bii	DIESEL OIL (S=001%)	0.016370498	t/TJ
2020	PM 2.5	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000731602	t/TJ
2020	PM 2.5	1A3bii	NATURAL GAS	0.000459291	t/TJ
2020	PM 2.5	1A3biii	DIESEL OIL (S=001%)	0.002424883	t/TJ
2020	PM 2.5	1A3biii	NATURAL GAS	0.000210758	t/TJ
2020	PM 2.5	1A3biv	DIESEL OIL (S=001%)	0.101627286	t/TJ
2020	PM 2.5	1A3biv	MOTOR GASOLINE (S=0.001%)	0.009226616	t/TJ
2020	PM 2.5	1A3c	GASOIL (FOR NON-ROAD USE)	0.030054873	t/TJ
2020	PM 2.5	1A3dii	DIESEL OIL (S=001%)	0.086809876	t/TJ
2020	PM 2.5	1A3dii	GASOIL (FOR NON-ROAD USE)	0.027606822	t/TJ
2020	PM 2.5	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.041430644	t/TJ
2020	PM 2.5	1A3dii	MOTOR GASOLINE (S=0.001%)	0.118206303	t/TJ
2020	PM 2.5	1A4ai	FOREST WOODFUEL	0.015652933	t/TJ
2020	PM 2.5	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000056169	t/TJ
2020	PM 2.5	1A4ai	HEAVY FUEL OIL (S<1%)	0.050400000	t/TJ
2020	PM 2.5	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000840535	t/TJ
2020	PM 2.5	1A4ai	SOD PEAT	0.017333333	t/TJ
2020	PM 2.5	1A4aii	GASOIL (FOR NON-ROAD USE)	0.014778190	t/TJ
2020	PM 2.5	1A4aii	MOTOR GASOLINE (S=0.001%)	0.048123765	t/TJ
2020	PM 2.5	1A4bi	COAL (S=1.0%)	0.160000000	t/TJ
2020	PM 2.5	1A4bi	FOREST WOODFUEL	0.148933346	t/TJ
2020	PM 2.5	1A4bi	HEAVY FUEL OIL (S<1%)	0.020700000	t/TJ
2020	PM 2.5	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.004900000	t/TJ
2020	PM 2.5	1A4bi	PARAFFIN	0.004900000	t/TJ
2020	PM 2.5	1A4bi	SOD PEAT	0.320000000	t/TJ
2020	PM 2.5	1A4bii	GASOIL (FOR NON-ROAD USE)	0.068939944	t/TJ
2020	PM 2.5	1A4bii	MOTOR GASOLINE (S=0.001%)	0.047151047	t/TJ
2020	PM 2.5	1A4ci	CHIPS FROM ROUNDWOOD	0.033582239	t/TJ
2020	PM 2.5	1A4ci	COAL (S=1.0%)	0.003453947	t/TJ
2020	PM 2.5	1A4ci	FOREST WOODFUEL	0.015500000	t/TJ
2020	PM 2.5	1A4ci	HEAVY FUEL OIL (S<1%)	0.050400000	t/TJ
2020	PM 2.5	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000840000	t/TJ
2020	PM 2.5	1A4ci	OTHER NON-FOSSIL SOLID	0.003500000	t/TJ
2020	PM 2.5	1A4ci	RECOVERED WOOD	0.048143054	t/TJ
2020	PM 2.5	1A4ci	SOD PEAT	0.019921739	t/TJ
2020	PM 2.5	1A4ci	WOOD RESIDUE CHIPS	0.014880952	t/TJ
2020	PM 2.5	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010879435	t/TJ
2020	PM 2.5	1A4cii	MOTOR GASOLINE (S=0.001%)	0.117712037	t/TJ
2020	PM 2.5	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.030138889	t/TJ
2020	PM 2.5	1A5a	FOREST WOODFUEL	0.010000000	t/TJ

2020	PM 2.5	1A5a	HEAVY FUEL OIL (S<1%)	0.050400000	t/TJ
2020	PM 2.5	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2020	PM 2.5	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.003022159	t/TJ
2020	PM 2.5	1A5a	OTHER PETROLEUM PRODUCTS	0.000840000	t/TJ

PM 10 Implied emission factors in Finnish air pollutant inventory for 2020

2020	PM 10	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000453221	t/TJ
2020	PM 10	1A1a	ANIMAL-BASED FUELS	0.000260705	t/TJ
2020	PM 10	1A1a	BARK	0.003324994	t/TJ
2020	PM 10	1A1a	CHIPS FROM ROUNDWOOD	0.005404057	t/TJ
2020	PM 10	1A1a	COAL (S=1.0%)	0.002356994	t/TJ
2020	PM 10	1A1a	CREOSOTED WOOD	0.000766377	t/TJ
2020	PM 10	1A1a	DEINKING WASTE	0.000026188	t/TJ
2020	PM 10	1A1a	DEMOLITION WOOD	0.001601073	t/TJ
2020	PM 10	1A1a	DIESEL OIL (S=001%)	0.009090402	t/TJ
2020	PM 10	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000507931	t/TJ
2020	PM 10	1A1a	FOREST RESIDUE CHIPS	0.007464912	t/TJ
2020	PM 10	1A1a	GASOIL (FOR NON-ROAD USE)	0.020201682	t/TJ
2020	PM 10	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.010185116	t/TJ
2020	PM 10	1A1a	HEAVY FUEL OIL (S<1%)	0.010987931	t/TJ
2020	PM 10	1A1a	INDUSTRIAL WASTE	0.000116399	t/TJ
2020	PM 10	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.017050759	t/TJ
2020	PM 10	1A1a	MILLED PEAT	0.002199514	t/TJ
2020	PM 10	1A1a	MUNICIPAL WASTE - unsorted	0.000231423	t/TJ
2020	PM 10	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002161105	t/TJ
2020	PM 10	1A1a	OTHER FOSSIL SOLID	0.000771540	t/TJ
2020	PM 10	1A1a	OTHER HEAVY DISTILLATES	0.064500000	t/TJ
2020	PM 10	1A1a	OTHER NON-FOSSIL LIQUID	0.001484966	t/TJ
2020	PM 10	1A1a	OTHER NON-FOSSIL SOLID	0.019434120	t/TJ
2020	PM 10	1A1a	OTHER WASTE	0.000307839	t/TJ
2020	PM 10	1A1a	OTHER WOOD RESIDUE	0.001424523	t/TJ
2020	PM 10	1A1a	PAPER	0.000182286	t/TJ
2020	PM 10	1A1a	PLASTIC WASTE	0.000210589	t/TJ
2020	PM 10	1A1a	PLYWOOD RESIDUE	0.000161527	t/TJ
2020	PM 10	1A1a	RECOVERED FUEL (REF 1)	0.001762074	t/TJ
2020	PM 10	1A1a	RECOVERED FUEL (REF 2)	0.001208151	t/TJ
2020	PM 10	1A1a	RECOVERED FUEL (REF 3)	0.000120941	t/TJ
2020	PM 10	1A1a	RECOVERED WOOD	0.001919442	t/TJ
2020	PM 10	1A1a	RECYCLED AND WASTE OILS	0.000903693	t/TJ
2020	PM 10	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000076232	t/TJ
2020	PM 10	1A1a	SAWDUST AND CUTTER CHIPS	0.006882197	t/TJ
2020	PM 10	1A1a	SOD PEAT	0.049237402	t/TJ
2020	PM 10	1A1a	TALL PITCH AND OIL	0.064500000	t/TJ
2020	PM 10	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.007209769	t/TJ
2020	PM 10	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005182788	t/TJ
2020	PM 10	1A1a	WOOD RESIDUE CHIPS	0.010870073	t/TJ
2020	PM 10	1A1b	COKE (S=1.0%)	0.039000000	t/TJ
2020	PM 10	1A1b	DIESEL OIL (S=001%)	0.003500000	t/TJ
2020	PM 10	1A1b	GASOIL (FOR NON-ROAD USE)	0.003500000	t/TJ
2020	PM 10	1A1b	HEAVY FUEL OIL (S<1%)	0.064500000	t/TJ
2020	PM 10	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.001099977	t/TJ
2020	PM 10	1A1b	OTHER FOSSIL LIQUID	0.001089578	t/TJ
2020	PM 10	1A1b	OTHER MEDIUM DISTILLATES	0.001068560	t/TJ
2020	PM 10	1A1b	PETROLEUM COKE	0.005103522	t/TJ
2020	PM 10	1A2a	COKE (S=1.0%)	0.007866444	t/TJ
2020	PM 10	1A2a	DIESEL OIL (S=001%)	0.003500000	t/TJ
2020	PM 10	1A2a	GASOIL (FOR NON-ROAD USE)	0.001578098	t/TJ
2020	PM 10	1A2a	HEAVY FUEL OIL (S<1%)	0.014293660	t/TJ
2020	PM 10	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.003783746	t/TJ

2020	PM 10	1A2a	OTHER FOSSIL SOLID	0.013328922	t/TJ
2020	PM 10	1A2a	WOOD RESIDUE CHIPS	0.033829254	t/TJ
2020	PM 10	1A2b	COAL (S=1.0%)	0.036800934	t/TJ
2020	PM 10	1A2b	COKE (S=1.0%)	0.003098307	t/TJ
2020	PM 10	1A2b	GASOIL (FOR NON-ROAD USE)	0.003500000	t/TJ
2020	PM 10	1A2b	HEAVY FUEL OIL (S<1%)	0.011207637	t/TJ
2020	PM 10	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000487153	t/TJ
2020	PM 10	1A2b	OTHER HEAVY DISTILLATES	0.005124123	t/TJ
2020	PM 10	1A2c	COAL (S=1.0%)	0.007533333	t/TJ
2020	PM 10	1A2c	DIESEL OIL (S=001%)	0.003500000	t/TJ
2020	PM 10	1A2c	GASOIL (FOR NON-ROAD USE)	0.004820375	t/TJ
2020	PM 10	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.004652381	t/TJ
2020	PM 10	1A2c	HEAVY FUEL OIL (S<1%)	0.030443811	t/TJ
2020	PM 10	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.008981097	t/TJ
2020	PM 10	1A2c	OTHER FOSSIL LIQUID	0.064500000	t/TJ
2020	PM 10	1A2c	OTHER HEAVY DISTILLATES	0.000681963	t/TJ
2020	PM 10	1A2c	TALL PITCH AND OIL	0.002006281	t/TJ
2020	PM 10	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.017911774	t/TJ
2020	PM 10	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.001389770	t/TJ
2020	PM 10	1A2d	ANIMAL-BASED FUELS	0.001865203	t/TJ
2020	PM 10	1A2d	BARK	0.005405926	t/TJ
2020	PM 10	1A2d	BLACK LIQUOR	0.007753233	t/TJ
2020	PM 10	1A2d	CHIPS FROM ROUNDWOOD	0.010134911	t/TJ
2020	PM 10	1A2d	COAL (S=1.0%)	0.000791226	t/TJ
2020	PM 10	1A2d	CREOSOTED WOOD	0.001744377	t/TJ
2020	PM 10	1A2d	DEMOLITION WOOD	0.002356974	t/TJ
2020	PM 10	1A2d	DIESEL OIL (S=001%)	0.003500000	t/TJ
2020	PM 10	1A2d	FOREST RESIDUE CHIPS	0.001142753	t/TJ
2020	PM 10	1A2d	GASOIL (FOR NON-ROAD USE)	0.011924944	t/TJ
2020	PM 10	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.002094785	t/TJ
2020	PM 10	1A2d	HEAVY FUEL OIL (S<1%)	0.007152527	t/TJ
2020	PM 10	1A2d	HYDROGEN	0.000905922	t/TJ
2020	PM 10	1A2d	INDUSTRIAL WASTE	0.018913231	t/TJ
2020	PM 10	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.002415189	t/TJ
2020	PM 10	1A2d	LIQUID GAS	0.000000082	t/TJ
2020	PM 10	1A2d	METHANOL	0.004112216	t/TJ
2020	PM 10	1A2d	MILLED PEAT	0.003223505	t/TJ
2020	PM 10	1A2d	NATURAL GAS	0.000507537	t/TJ
2020	PM 10	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002033876	t/TJ
2020	PM 10	1A2d	OTHER FOSSIL SOLID	0.025016113	t/TJ
2020	PM 10	1A2d	OTHER HEAVY DISTILLATES	0.003742165	t/TJ
2020	PM 10	1A2d	OTHER NON-FOSSIL LIQUID	0.042180223	t/TJ
2020	PM 10	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000952251	t/TJ
2020	PM 10	1A2d	PAPER	0.000164297	t/TJ
2020	PM 10	1A2d	PLASTIC WASTE	0.000572641	t/TJ
2020	PM 10	1A2d	RECOVERED FUEL (REF 1)	0.001481960	t/TJ
2020	PM 10	1A2d	RECOVERED FUEL (REF 2)	0.002097382	t/TJ
2020	PM 10	1A2d	RECOVERED WOOD	0.001152475	t/TJ
2020	PM 10	1A2d	RECYCLED AND WASTE OILS	0.002297870	t/TJ
2020	PM 10	1A2d	SAWDUST AND CUTTER CHIPS	0.017194813	t/TJ
2020	PM 10	1A2d	SULPHITE LIQUOR	0.016809567	t/TJ
2020	PM 10	1A2d	TALL PITCH AND OIL	0.000652161	t/TJ
2020	PM 10	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005055791	t/TJ
2020	PM 10	1A2d	WOOD RESIDUE CHIPS	0.003155461	t/TJ
2020	PM 10	1A2e	ANIMAL-BASED FUELS	0.006894326	t/TJ
2020	PM 10	1A2e	CHIPS FROM ROUNDWOOD	0.009167501	t/TJ

2020	PM 10	1A2e	COAL (S=1.0%)	0.006783942	t/TJ
2020	PM 10	1A2e	COKE (S=1.0%)	0.039000000	t/TJ
2020	PM 10	1A2e	DIESEL OIL (S=001%)	0.003500000	t/TJ
2020	PM 10	1A2e	GASOIL (FOR NON-ROAD USE)	0.002901008	t/TJ
2020	PM 10	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000395402	t/TJ
2020	PM 10	1A2e	HEAVY FUEL OIL (S<1%)	0.040278392	t/TJ
2020	PM 10	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.002054904	t/TJ
2020	PM 10	1A2e	MILLED PEAT	0.002880294	t/TJ
2020	PM 10	1A2e	OTHER NON-FOSSIL LIQUID	0.004889096	t/TJ
2020	PM 10	1A2e	OTHER NON-FOSSIL SOLID	0.016942149	t/TJ
2020	PM 10	1A2e	PEAT PELLETS AND BRIQUETTES	0.002520599	t/TJ
2020	PM 10	1A2e	RECOVERED WOOD	0.001173197	t/TJ
2020	PM 10	1A2e	SAWDUST AND CUTTER CHIPS	0.011390557	t/TJ
2020	PM 10	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.052000000	t/TJ
2020	PM 10	1A2e	WOOD RESIDUE CHIPS	0.052000000	t/TJ
2020	PM 10	1A2f	CHIPS FROM ROUNDWOOD	0.075362422	t/TJ
2020	PM 10	1A2f	COAL (S=1.0%)	0.002910673	t/TJ
2020	PM 10	1A2f	COKE (S=1.0%)	0.017281992	t/TJ
2020	PM 10	1A2f	DIESEL OIL (S=001%)	0.002338664	t/TJ
2020	PM 10	1A2f	FOREST RESIDUE CHIPS	0.040011738	t/TJ
2020	PM 10	1A2f	GASOIL (FOR NON-ROAD USE)	0.003449474	t/TJ
2020	PM 10	1A2f	HEAVY FUEL OIL (S<1%)	0.036272527	t/TJ
2020	PM 10	1A2f	INDUSTRIAL WASTE	0.001174086	t/TJ
2020	PM 10	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.003959817	t/TJ
2020	PM 10	1A2f	OTHER FOSSIL SOLID	0.002515899	t/TJ
2020	PM 10	1A2f	OTHER HEAVY DISTILLATES	0.017095159	t/TJ
2020	PM 10	1A2f	OTHER WASTE	0.000454496	t/TJ
2020	PM 10	1A2f	PETROLEUM COKE	0.004891312	t/TJ
2020	PM 10	1A2f	RECOVERED FUEL (REF 1)	0.001075606	t/TJ
2020	PM 10	1A2f	RECOVERED WOOD	0.006518123	t/TJ
2020	PM 10	1A2f	RECYCLED AND WASTE OILS	0.001309475	t/TJ
2020	PM 10	1A2f	RUBBER WASTE	0.003031981	t/TJ
2020	PM 10	1A2f	SAWDUST AND CUTTER CHIPS	0.002505540	t/TJ
2020	PM 10	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.018262231	t/TJ
2020	PM 10	1A2gvii	LIQUID GAS	0.004135802	t/TJ
2020	PM 10	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.003938940	t/TJ
2020	PM 10	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000490825	t/TJ
2020	PM 10	1A2gviii	BARK	0.038332143	t/TJ
2020	PM 10	1A2gviii	CHIPS FROM ROUNDWOOD	0.011767509	t/TJ
2020	PM 10	1A2gviii	CREOSOTED WOOD	0.000699047	t/TJ
2020	PM 10	1A2gviii	DEMOLITION WOOD	0.000640037	t/TJ
2020	PM 10	1A2gviii	DIESEL OIL (S=001%)	0.005322323	t/TJ
2020	PM 10	1A2gviii	FOREST RESIDUE CHIPS	0.039752276	t/TJ
2020	PM 10	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.003565433	t/TJ
2020	PM 10	1A2gviii	HAZARDOUS WASTE	0.000149969	t/TJ
2020	PM 10	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.022665663	t/TJ
2020	PM 10	1A2gviii	HEAVY FUEL OIL (S<1%)	0.039891173	t/TJ
2020	PM 10	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.012643445	t/TJ
2020	PM 10	1A2gviii	MILLED PEAT	0.001043173	t/TJ
2020	PM 10	1A2gviii	MUNICIPAL WASTE - unsorted	0.000228304	t/TJ
2020	PM 10	1A2gviii	OTHER HEAVY DISTILLATES	0.021539931	t/TJ
2020	PM 10	1A2gviii	OTHER NON-FOSSIL LIQUID	0.008669765	t/TJ
2020	PM 10	1A2gviii	OTHER NON-FOSSIL SOLID	0.001200795	t/TJ
2020	PM 10	1A2gviii	OTHER WASTE	0.000620484	t/TJ
2020	PM 10	1A2gviii	OTHER WOOD RESIDUE	0.011172873	t/TJ
2020	PM 10	1A2gviii	PLASTIC WASTE	0.000505502	t/TJ

2020	PM 10	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.001543975	t/TJ
2020	PM 10	1A2gviii	RECOVERED FUEL (REF 2)	0.000779664	t/TJ
2020	PM 10	1A2gviii	RECOVERED WOOD	0.003132200	t/TJ
2020	PM 10	1A2gviii	RECYCLED AND WASTE OILS	0.000000087	t/TJ
2020	PM 10	1A2gviii	SALT TREATED WOOD	0.000830471	t/TJ
2020	PM 10	1A2gviii	SAWDUST AND CUTTER CHIPS	0.055026738	t/TJ
2020	PM 10	1A2gviii	SOD PEAT	0.012446070	t/TJ
2020	PM 10	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.028631593	t/TJ
2020	PM 10	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.054029603	t/TJ
2020	PM 10	1A2gviii	WOOD RESIDUE CHIPS	0.024288494	t/TJ
2020	PM 10	1A3ai(i)	KEROSENE (JET FUEL)	0.002279235	t/TJ
2020	PM 10	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2020	PM 10	1A3aii(i)	KEROSENE (JET FUEL)	0.002204387	t/TJ
2020	PM 10	1A3bi	DIESEL OIL (S=001%)	0.006576181	t/TJ
2020	PM 10	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000643213	t/TJ
2020	PM 10	1A3bi	NATURAL GAS	0.000410834	t/TJ
2020	PM 10	1A3bii	DIESEL OIL (S=001%)	0.016370498	t/TJ
2020	PM 10	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000731602	t/TJ
2020	PM 10	1A3bii	NATURAL GAS	0.000459291	t/TJ
2020	PM 10	1A3biii	DIESEL OIL (S=001%)	0.002424883	t/TJ
2020	PM 10	1A3biii	NATURAL GAS	0.000210758	t/TJ
2020	PM 10	1A3biv	DIESEL OIL (S=001%)	0.101627286	t/TJ
2020	PM 10	1A3biv	MOTOR GASOLINE (S=0.001%)	0.009226616	t/TJ
2020	PM 10	1A3c	GASOIL (FOR NON-ROAD USE)	0.031590524	t/TJ
2020	PM 10	1A3dii	DIESEL OIL (S=001%)	0.086809876	t/TJ
2020	PM 10	1A3dii	GASOIL (FOR NON-ROAD USE)	0.029578738	t/TJ
2020	PM 10	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.045869642	t/TJ
2020	PM 10	1A3dii	MOTOR GASOLINE (S=0.001%)	0.118206303	t/TJ
2020	PM 10	1A4ai	FOREST WOODFUEL	0.016157867	t/TJ
2020	PM 10	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000234038	t/TJ
2020	PM 10	1A4ai	HEAVY FUEL OIL (S<1%)	0.077400000	t/TJ
2020	PM 10	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.003502229	t/TJ
2020	PM 10	1A4ai	SOD PEAT	0.090133333	t/TJ
2020	PM 10	1A4aii	GASOIL (FOR NON-ROAD USE)	0.014778190	t/TJ
2020	PM 10	1A4aii	MOTOR GASOLINE (S=0.001%)	0.048123765	t/TJ
2020	PM 10	1A4bi	COAL (S=1.0%)	0.180000000	t/TJ
2020	PM 10	1A4bi	FOREST WOODFUEL	0.153737647	t/TJ
2020	PM 10	1A4bi	HEAVY FUEL OIL (S<1%)	0.055800000	t/TJ
2020	PM 10	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.006300000	t/TJ
2020	PM 10	1A4bi	PARAFFIN	0.006300000	t/TJ
2020	PM 10	1A4bi	SOD PEAT	0.360000000	t/TJ
2020	PM 10	1A4bii	GASOIL (FOR NON-ROAD USE)	0.068939944	t/TJ
2020	PM 10	1A4bii	MOTOR GASOLINE (S=0.001%)	0.047151047	t/TJ
2020	PM 10	1A4ci	CHIPS FROM ROUNDWOOD	0.174627642	t/TJ
2020	PM 10	1A4ci	COAL (S=1.0%)	0.017960526	t/TJ
2020	PM 10	1A4ci	FOREST WOODFUEL	0.016000000	t/TJ
2020	PM 10	1A4ci	HEAVY FUEL OIL (S<1%)	0.077400000	t/TJ
2020	PM 10	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.003500000	t/TJ
2020	PM 10	1A4ci	OTHER NON-FOSSIL SOLID	0.016942149	t/TJ
2020	PM 10	1A4ci	RECOVERED WOOD	0.116520968	t/TJ
2020	PM 10	1A4ci	SOD PEAT	0.103593043	t/TJ
2020	PM 10	1A4ci	WOOD RESIDUE CHIPS	0.221088435	t/TJ
2020	PM 10	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010879435	t/TJ
2020	PM 10	1A4cii	MOTOR GASOLINE (S=0.001%)	0.117712037	t/TJ
2020	PM 10	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.032291667	t/TJ
2020	PM 10	1A5a	FOREST WOODFUEL	0.052000000	t/TJ

2020	PM 10	1A5a	HEAVY FUEL OIL (S<1%)	0.077400000	t/TJ
2020	PM 10	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2020	PM 10	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.005829866	t/TJ
2020	PM 10	1A5a	OTHER PETROLEUM PRODUCTS	0.003500000	t/TJ

TSP Implied emission factors in Finnish air pollutant inventory for 2020

2020	TSP	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000535022	t/TJ
2020	TSP	1A1a	ANIMAL-BASED FUELS	0.000508041	t/TJ
2020	TSP	1A1a	BARK	0.007419007	t/TJ
2020	TSP	1A1a	CHIPS FROM ROUNDWOOD	0.008836531	t/TJ
2020	TSP	1A1a	COAL (S=1.0%)	0.002967051	t/TJ
2020	TSP	1A1a	CREOSOTED WOOD	0.001087780	t/TJ
2020	TSP	1A1a	DEINKING WASTE	0.000100724	t/TJ
2020	TSP	1A1a	DEMOLITION WOOD	0.001900221	t/TJ
2020	TSP	1A1a	DIESEL OIL (S=001%)	0.018180805	t/TJ
2020	TSP	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000599607	t/TJ
2020	TSP	1A1a	FOREST RESIDUE CHIPS	0.025530641	t/TJ
2020	TSP	1A1a	GASOIL (FOR NON-ROAD USE)	0.040403365	t/TJ
2020	TSP	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.011380243	t/TJ
2020	TSP	1A1a	HEAVY FUEL OIL (S<1%)	0.012850168	t/TJ
2020	TSP	1A1a	INDUSTRIAL WASTE	0.000272713	t/TJ
2020	TSP	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.034101519	t/TJ
2020	TSP	1A1a	MILLED PEAT	0.002994958	t/TJ
2020	TSP	1A1a	MUNICIPAL WASTE - unsorted	0.000466655	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
			TRY	0.002551158	t/TJ
2020	TSP	1A1a	OTHER FOSSIL SOLID	0.001014738	t/TJ
2020	TSP	1A1a	OTHER HEAVY DISTILLATES	0.075000000	t/TJ
2020	TSP	1A1a	OTHER NON-FOSSIL LIQUID	0.001726705	t/TJ
2020	TSP	1A1a	OTHER NON-FOSSIL SOLID	0.023850323	t/TJ
2020	TSP	1A1a	OTHER WASTE	0.000363565	t/TJ
2020	TSP	1A1a	OTHER WOOD RESIDUE	0.001406195	t/TJ
2020	TSP	1A1a	PAPER	0.000215186	t/TJ
2020	TSP	1A1a	PLASTIC WASTE	0.000410379	t/TJ
2020	TSP	1A1a	PLYWOOD RESIDUE	0.000190680	t/TJ
2020	TSP	1A1a	RECOVERED FUEL (REF 1)	0.006777207	t/TJ
2020	TSP	1A1a	RECOVERED FUEL (REF 2)	0.002453988	t/TJ
2020	TSP	1A1a	RECOVERED FUEL (REF 3)	0.000465157	t/TJ
2020	TSP	1A1a	RECOVERED WOOD	0.002383426	t/TJ
2020	TSP	1A1a	RECYCLED AND WASTE OILS	0.000961020	t/TJ
2020	TSP	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000101192	t/TJ
2020	TSP	1A1a	SAWDUST AND CUTTER CHIPS	0.011006980	t/TJ
2020	TSP	1A1a	SOD PEAT	0.187764266	t/TJ
2020	TSP	1A1a	TALL PITCH AND OIL	0.075000000	t/TJ
2020	TSP	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.021751894	t/TJ
2020	TSP	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.011852018	t/TJ
2020	TSP	1A1a	WOOD RESIDUE CHIPS	0.034441443	t/TJ
2020	TSP	1A1b	COKE (S=1.0%)	0.150000000	t/TJ
2020	TSP	1A1b	DIESEL OIL (S=001%)	0.007000000	t/TJ
2020	TSP	1A1b	GASOIL (FOR NON-ROAD USE)	0.007000000	t/TJ
2020	TSP	1A1b	HEAVY FUEL OIL (S<1%)	0.075000000	t/TJ
2020	TSP	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.002199954	t/TJ
2020	TSP	1A1b	OTHER FOSSIL LIQUID	0.002179155	t/TJ
2020	TSP	1A1b	OTHER MEDIUM DISTILLATES	0.002137120	t/TJ
2020	TSP	1A1b	PETROLEUM COKE	0.019628933	t/TJ
2020	TSP	1A2a	COKE (S=1.0%)	0.019074630	t/TJ
2020	TSP	1A2a	DIESEL OIL (S=001%)	0.007000000	t/TJ
2020	TSP	1A2a	GASOIL (FOR NON-ROAD USE)	0.003156196	t/TJ
2020	TSP	1A2a	HEAVY FUEL OIL (S<1%)	0.016620535	t/TJ
2020	TSP	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.007567492	t/TJ

2020	TSP	1A2a	OTHER FOSSIL SOLID	0.025974309	t/TJ
2020	TSP	1A2a	WOOD RESIDUE CHIPS	0.130112515	t/TJ
2020	TSP	1A2b	COAL (S=1.0%)	0.141542054	t/TJ
2020	TSP	1A2b	COKE (S=1.0%)	0.011916566	t/TJ
2020	TSP	1A2b	GASOIL (FOR NON-ROAD USE)	0.007000000	t/TJ
2020	TSP	1A2b	HEAVY FUEL OIL (S<1%)	0.013032137	t/TJ
2020	TSP	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000974306	t/TJ
2020	TSP	1A2b	OTHER HEAVY DISTILLATES	0.005958283	t/TJ
2020	TSP	1A2c	COAL (S=1.0%)	0.010000000	t/TJ
2020	TSP	1A2c	DIESEL OIL (S=001%)	0.007000000	t/TJ
2020	TSP	1A2c	GASOIL (FOR NON-ROAD USE)	0.009640750	t/TJ
2020	TSP	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.005409746	t/TJ
2020	TSP	1A2c	HEAVY FUEL OIL (S<1%)	0.035385866	t/TJ
2020	TSP	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.017962194	t/TJ
2020	TSP	1A2c	OTHER FOSSIL LIQUID	0.075000000	t/TJ
2020	TSP	1A2c	OTHER HEAVY DISTILLATES	0.000792981	t/TJ
2020	TSP	1A2c	TALL PITCH AND OIL	0.002332885	t/TJ
2020	TSP	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.068891440	t/TJ
2020	TSP	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.001640606	t/TJ
2020	TSP	1A2d	ANIMAL-BASED FUELS	0.002475934	t/TJ
2020	TSP	1A2d	BARK	0.007679445	t/TJ
2020	TSP	1A2d	BLACK LIQUOR	0.008439635	t/TJ
2020	TSP	1A2d	CHIPS FROM ROUNDWOOD	0.011225651	t/TJ
2020	TSP	1A2d	COAL (S=1.0%)	0.001050300	t/TJ
2020	TSP	1A2d	CREOSOTED WOOD	0.002475934	t/TJ
2020	TSP	1A2d	DEMOLITION WOOD	0.002475934	t/TJ
2020	TSP	1A2d	DIESEL OIL (S=001%)	0.007000000	t/TJ
2020	TSP	1A2d	FOREST RESIDUE CHIPS	0.002800325	t/TJ
2020	TSP	1A2d	GASOIL (FOR NON-ROAD USE)	0.023849888	t/TJ
2020	TSP	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.002406428	t/TJ
2020	TSP	1A2d	HEAVY FUEL OIL (S<1%)	0.012521154	t/TJ
2020	TSP	1A2d	HYDROGEN	0.004768012	t/TJ
2020	TSP	1A2d	INDUSTRIAL WASTE	0.055370601	t/TJ
2020	TSP	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.004836164	t/TJ
2020	TSP	1A2d	LIQUID GAS	0.000000189	t/TJ
2020	TSP	1A2d	METHANOL	0.005395483	t/TJ
2020	TSP	1A2d	MILLED PEAT	0.004248702	t/TJ
2020	TSP	1A2d	NATURAL GAS	0.000669764	t/TJ
2020	TSP	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.002400966	t/TJ
2020	TSP	1A2d	OTHER FOSSIL SOLID	0.006414388	t/TJ
2020	TSP	1A2d	OTHER HEAVY DISTILLATES	0.004351355	t/TJ
2020	TSP	1A2d	OTHER NON-FOSSIL LIQUID	0.049046771	t/TJ
2020	TSP	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.001264050	t/TJ
2020	TSP	1A2d	PAPER	0.000193951	t/TJ
2020	TSP	1A2d	PLASTIC WASTE	0.000760143	t/TJ
2020	TSP	1A2d	RECOVERED FUEL (REF 1)	0.005699847	t/TJ
2020	TSP	1A2d	RECOVERED FUEL (REF 2)	0.002475934	t/TJ
2020	TSP	1A2d	RECOVERED WOOD	0.001523388	t/TJ
2020	TSP	1A2d	RECYCLED AND WASTE OILS	0.002475934	t/TJ
2020	TSP	1A2d	SAWDUST AND CUTTER CHIPS	0.020246666	t/TJ
2020	TSP	1A2d	SULPHITE LIQUOR	0.019843489	t/TJ
2020	TSP	1A2d	TALL PITCH AND OIL	0.002695768	t/TJ
2020	TSP	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.016647762	t/TJ
2020	TSP	1A2d	WOOD RESIDUE CHIPS	0.010579895	t/TJ
2020	TSP	1A2e	ANIMAL-BASED FUELS	0.026485284	t/TJ
2020	TSP	1A2e	CHIPS FROM ROUNDWOOD	0.005037089	t/TJ

2020	TSP	1A2e	COAL (S=1.0%)	0.010436834	t/TJ
2020	TSP	1A2e	COKE (S=1.0%)	0.150000000	t/TJ
2020	TSP	1A2e	DIESEL OIL (S=001%)	0.007000000	t/TJ
2020	TSP	1A2e	GASOIL (FOR NON-ROAD USE)	0.005802015	t/TJ
2020	TSP	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000459770	t/TJ
2020	TSP	1A2e	HEAVY FUEL OIL (S<1%)	0.046835339	t/TJ
2020	TSP	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.004109807	t/TJ
2020	TSP	1A2e	MILLED PEAT	0.010372101	t/TJ
2020	TSP	1A2e	OTHER NON-FOSSIL LIQUID	0.005684995	t/TJ
2020	TSP	1A2e	OTHER NON-FOSSIL SOLID	0.020000000	t/TJ
2020	TSP	1A2e	PEAT PELLETS AND BRIQUETTES	0.006232249	t/TJ
2020	TSP	1A2e	RECOVERED WOOD	0.001384944	t/TJ
2020	TSP	1A2e	SAWDUST AND CUTTER CHIPS	0.008221345	t/TJ
2020	TSP	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.200000000	t/TJ
2020	TSP	1A2e	WOOD RESIDUE CHIPS	0.200000000	t/TJ
2020	TSP	1A2f	CHIPS FROM ROUNDWOOD	0.289855470	t/TJ
2020	TSP	1A2f	COAL (S=1.0%)	0.006351270	t/TJ
2020	TSP	1A2f	COKE (S=1.0%)	0.066469201	t/TJ
2020	TSP	1A2f	DIESEL OIL (S=001%)	0.004677328	t/TJ
2020	TSP	1A2f	FOREST RESIDUE CHIPS	0.153891300	t/TJ
2020	TSP	1A2f	GASOIL (FOR NON-ROAD USE)	0.006898947	t/TJ
2020	TSP	1A2f	HEAVY FUEL OIL (S<1%)	0.042177357	t/TJ
2020	TSP	1A2f	INDUSTRIAL WASTE	0.004515716	t/TJ
2020	TSP	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.007919643	t/TJ
2020	TSP	1A2f	OTHER FOSSIL SOLID	0.000645102	t/TJ
2020	TSP	1A2f	OTHER HEAVY DISTILLATES	0.019878092	t/TJ
2020	TSP	1A2f	OTHER WASTE	0.000645102	t/TJ
2020	TSP	1A2f	PETROLEUM COKE	0.008854745	t/TJ
2020	TSP	1A2f	RECOVERED FUEL (REF 1)	0.004136948	t/TJ
2020	TSP	1A2f	RECOVERED WOOD	0.007694565	t/TJ
2020	TSP	1A2f	RECYCLED AND WASTE OILS	0.001408176	t/TJ
2020	TSP	1A2f	RUBBER WASTE	0.003225511	t/TJ
2020	TSP	1A2f	SAWDUST AND CUTTER CHIPS	0.006472972	t/TJ
2020	TSP	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.018262231	t/TJ
2020	TSP	1A2gvii	LIQUID GAS	0.004135802	t/TJ
2020	TSP	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.003938940	t/TJ
2020	TSP	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000579413	t/TJ
2020	TSP	1A2gviii	BARK	0.058976354	t/TJ
2020	TSP	1A2gviii	CHIPS FROM ROUNDWOOD	0.015006113	t/TJ
2020	TSP	1A2gviii	CREOSOTED WOOD	0.000992213	t/TJ
2020	TSP	1A2gviii	DEMOLITION WOOD	0.000755217	t/TJ
2020	TSP	1A2gviii	DIESEL OIL (S=001%)	0.010644645	t/TJ
2020	TSP	1A2gviii	FOREST RESIDUE CHIPS	0.143318486	t/TJ
2020	TSP	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.007130866	t/TJ
2020	TSP	1A2gviii	HAZARDOUS WASTE	0.000177607	t/TJ
2020	TSP	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.026355422	t/TJ
2020	TSP	1A2gviii	HEAVY FUEL OIL (S<1%)	0.046820498	t/TJ
2020	TSP	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.025286889	t/TJ
2020	TSP	1A2gviii	MILLED PEAT	0.001477641	t/TJ
2020	TSP	1A2gviii	MUNICIPAL WASTE - unsorted	0.000287458	t/TJ
2020	TSP	1A2gviii	OTHER HEAVY DISTILLATES	0.025045392	t/TJ
2020	TSP	1A2gviii	OTHER NON-FOSSIL LIQUID	0.010081122	t/TJ
2020	TSP	1A2gviii	OTHER NON-FOSSIL SOLID	0.001547888	t/TJ
2020	TSP	1A2gviii	OTHER WASTE	0.000732909	t/TJ
2020	TSP	1A2gviii	OTHER WOOD RESIDUE	0.027223844	t/TJ
2020	TSP	1A2gviii	PLASTIC WASTE	0.000599439	t/TJ

2020	TSP	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.001795320	t/TJ
2020	TSP	1A2gviii	RECOVERED FUEL (REF 2)	0.002998707	t/TJ
2020	TSP	1A2gviii	RECOVERED WOOD	0.003821433	t/TJ
2020	TSP	1A2gviii	RECYCLED AND WASTE OILS	0.000000093	t/TJ
2020	TSP	1A2gviii	SALT TREATED WOOD	0.000980381	t/TJ
2020	TSP	1A2gviii	SAWDUST AND CUTTER CHIPS	0.084572668	t/TJ
2020	TSP	1A2gviii	SOD PEAT	0.025695092	t/TJ
2020	TSP	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.062318988	t/TJ
2020	TSP	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.207709098	t/TJ
2020	TSP	1A2gviii	WOOD RESIDUE CHIPS	0.069098143	t/TJ
2020	TSP	1A3ai(i)	KEROSENE (JET FUEL)	0.002279235	t/TJ
2020	TSP	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2020	TSP	1A3aii(i)	KEROSENE (JET FUEL)	0.002204387	t/TJ
2020	TSP	1A3bi	DIESEL OIL (S=001%)	0.006576181	t/TJ
2020	TSP	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000643213	t/TJ
2020	TSP	1A3bi	NATURAL GAS	0.000410834	t/TJ
2020	TSP	1A3bii	DIESEL OIL (S=001%)	0.016370498	t/TJ
2020	TSP	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000731602	t/TJ
2020	TSP	1A3bii	NATURAL GAS	0.000459291	t/TJ
2020	TSP	1A3biii	DIESEL OIL (S=001%)	0.002424883	t/TJ
2020	TSP	1A3biii	NATURAL GAS	0.000210758	t/TJ
2020	TSP	1A3biv	DIESEL OIL (S=001%)	0.101627286	t/TJ
2020	TSP	1A3biv	MOTOR GASOLINE (S=0.001%)	0.009226616	t/TJ
2020	TSP	1A3c	GASOIL (FOR NON-ROAD USE)	0.033345553	t/TJ
2020	TSP	1A3dii	DIESEL OIL (S=001%)	0.086809876	t/TJ
2020	TSP	1A3dii	GASOIL (FOR NON-ROAD USE)	0.029578738	t/TJ
2020	TSP	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.045869642	t/TJ
2020	TSP	1A3dii	MOTOR GASOLINE (S=0.001%)	0.118206303	t/TJ
2020	TSP	1A4ai	FOREST WOODFUEL	0.016831111	t/TJ
2020	TSP	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000468076	t/TJ
2020	TSP	1A4ai	HEAVY FUEL OIL (S<1%)	0.090000000	t/TJ
2020	TSP	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.007004458	t/TJ
2020	TSP	1A4ai	SOD PEAT	0.346666667	t/TJ
2020	TSP	1A4aii	GASOIL (FOR NON-ROAD USE)	0.014778190	t/TJ
2020	TSP	1A4aii	MOTOR GASOLINE (S=0.001%)	0.048123765	t/TJ
2020	TSP	1A4bi	COAL (S=1.0%)	0.200000000	t/TJ
2020	TSP	1A4bi	FOREST WOODFUEL	0.160143383	t/TJ
2020	TSP	1A4bi	HEAVY FUEL OIL (S<1%)	0.090000000	t/TJ
2020	TSP	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.007000000	t/TJ
2020	TSP	1A4bi	PARAFFIN	0.007000000	t/TJ
2020	TSP	1A4bi	SOD PEAT	0.400000000	t/TJ
2020	TSP	1A4bii	GASOIL (FOR NON-ROAD USE)	0.068939944	t/TJ
2020	TSP	1A4bii	MOTOR GASOLINE (S=0.001%)	0.047151047	t/TJ
2020	TSP	1A4ci	CHIPS FROM ROUNDWOOD	0.095949254	t/TJ
2020	TSP	1A4ci	COAL (S=1.0%)	0.035000000	t/TJ
2020	TSP	1A4ci	FOREST WOODFUEL	0.016666667	t/TJ
2020	TSP	1A4ci	HEAVY FUEL OIL (S<1%)	0.090000000	t/TJ
2020	TSP	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.007000000	t/TJ
2020	TSP	1A4ci	OTHER NON-FOSSIL SOLID	0.020000000	t/TJ
2020	TSP	1A4ci	RECOVERED WOOD	0.137551582	t/TJ
2020	TSP	1A4ci	SOD PEAT	0.398434783	t/TJ
2020	TSP	1A4ci	WOOD RESIDUE CHIPS	0.850340136	t/TJ
2020	TSP	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010879435	t/TJ
2020	TSP	1A4cii	MOTOR GASOLINE (S=0.001%)	0.117712037	t/TJ
2020	TSP	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.032291667	t/TJ
2020	TSP	1A5a	FOREST WOODFUEL	0.200000000	t/TJ

2020	TSP	1A5a	HEAVY FUEL OIL (S<1%)	0.090000000	t/TJ
2020	TSP	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2020	TSP	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.009329866	t/TJ
2020	TSP	1A5a	OTHER PETROLEUM PRODUCTS	0.007000000	t/TJ

BC Implied emission factors in Finnish air pollutant inventory for 2020

2020	BC	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000006180	t/TJ
2020	BC	1A1a	ANIMAL-BASED FUELS	0.000036098	t/TJ
2020	BC	1A1a	BARK	0.000031957	t/TJ
2020	BC	1A1a	CHIPS FROM ROUNDWOOD	0.000060943	t/TJ
2020	BC	1A1a	COAL (S=1.0%)	0.000009646	t/TJ
2020	BC	1A1a	CREOSOTED WOOD	0.000011966	t/TJ
2020	BC	1A1a	DEMOLITION WOOD	0.000021734	t/TJ
2020	BC	1A1a	DIESEL OIL (S=001%)	0.000730868	t/TJ
2020	BC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000044926	t/TJ
2020	BC	1A1a	FOREST RESIDUE CHIPS	0.000043224	t/TJ
2020	BC	1A1a	GASOIL (FOR NON-ROAD USE)	0.001676840	t/TJ
2020	BC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.001912214	t/TJ
2020	BC	1A1a	HEAVY FUEL OIL (S<1%)	0.001878359	t/TJ
2020	BC	1A1a	INDUSTRIAL WASTE	0.000004426	t/TJ
2020	BC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.001384052	t/TJ
2020	BC	1A1a	MILLED PEAT	0.000024212	t/TJ
2020	BC	1A1a	MUNICIPAL WASTE - unsorted	0.000000401	t/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
			TRY	0.000029466	t/TJ
2020	BC	1A1a	OTHER FOSSIL SOLID	0.000005581	t/TJ
2020	BC	1A1a	OTHER HEAVY DISTILLATES	0.002352000	t/TJ
2020	BC	1A1a	OTHER NON-FOSSIL LIQUID	0.000045680	t/TJ
2020	BC	1A1a	OTHER NON-FOSSIL SOLID	0.000132328	t/TJ
2020	BC	1A1a	OTHER WASTE	0.000042513	t/TJ
2020	BC	1A1a	OTHER WOOD RESIDUE	0.000011254	t/TJ
2020	BC	1A1a	PAPER	0.000002485	t/TJ
2020	BC	1A1a	PLASTIC WASTE	0.000029159	t/TJ
2020	BC	1A1a	PLYWOOD RESIDUE	0.000002202	t/TJ
2020	BC	1A1a	RECOVERED FUEL (REF 1)	0.000018976	t/TJ
2020	BC	1A1a	RECOVERED FUEL (REF 2)	0.000017161	t/TJ
2020	BC	1A1a	RECOVERED FUEL (REF 3)	0.000000465	t/TJ
2020	BC	1A1a	RECOVERED WOOD	0.000023576	t/TJ
2020	BC	1A1a	RECYCLED AND WASTE OILS	0.000205750	t/TJ
2020	BC	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000000675	t/TJ
2020	BC	1A1a	SAWDUST AND CUTTER CHIPS	0.000091755	t/TJ
2020	BC	1A1a	SOD PEAT	0.000314337	t/TJ
2020	BC	1A1a	TALL PITCH AND OIL	0.002352000	t/TJ
2020	BC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000055936	t/TJ
2020	BC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000069839	t/TJ
2020	BC	1A1a	WOOD RESIDUE CHIPS	0.000065246	t/TJ
2020	BC	1A1b	COKE (S=1.0%)	0.000150000	t/TJ
2020	BC	1A1b	HEAVY FUEL OIL (S<1%)	0.012600000	t/TJ
2020	BC	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000088438	t/TJ
2020	BC	1A1b	OTHER FOSSIL LIQUID	0.000014644	t/TJ
2020	BC	1A1b	OTHER MEDIUM DISTILLATES	0.000076936	t/TJ
2020	BC	1A1b	PETROLEUM COKE	0.000019629	t/TJ
2020	BC	1A2a	COKE (S=1.0%)	0.000035883	t/TJ
2020	BC	1A2a	DIESEL OIL (S=001%)	0.000281400	t/TJ
2020	BC	1A2a	GASOIL (FOR NON-ROAD USE)	0.000126879	t/TJ
2020	BC	1A2a	HEAVY FUEL OIL (S<1%)	0.001163437	t/TJ
2020	BC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000304213	t/TJ
2020	BC	1A2a	OTHER FOSSIL SOLID	0.000143542	t/TJ
2020	BC	1A2a	WOOD RESIDUE CHIPS	0.000214686	t/TJ
2020	BC	1A2b	COAL (S=1.0%)	0.000155696	t/TJ

2020	BC	1A2b	COKE (S=1.0%)	0.000011917	t/TJ
2020	BC	1A2b	GASOIL (FOR NON-ROAD USE)	0.000281400	t/TJ
2020	BC	1A2b	HEAVY FUEL OIL (S<1%)	0.002010007	t/TJ
2020	BC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000039167	t/TJ
2020	BC	1A2b	OTHER HEAVY DISTILLATES	0.000186852	t/TJ
2020	BC	1A2c	COAL (S=1.0%)	0.000055000	t/TJ
2020	BC	1A2c	DIESEL OIL (S=001%)	0.000230004	t/TJ
2020	BC	1A2c	GASOIL (FOR NON-ROAD USE)	0.000387375	t/TJ
2020	BC	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000908837	t/TJ
2020	BC	1A2c	HEAVY FUEL OIL (S<1%)	0.005950691	t/TJ
2020	BC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000721040	t/TJ
2020	BC	1A2c	OTHER FOSSIL LIQUID	0.002352000	t/TJ
2020	BC	1A2c	TALL PITCH AND OIL	0.000073159	t/TJ
2020	BC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000039802	t/TJ
2020	BC	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000018949	t/TJ
2020	BC	1A2d	ANIMAL-BASED FUELS	0.000594224	t/TJ
2020	BC	1A2d	BARK	0.000094854	t/TJ
2020	BC	1A2d	CHIPS FROM ROUNDWOOD	0.000280466	t/TJ
2020	BC	1A2d	COAL (S=1.0%)	0.000005777	t/TJ
2020	BC	1A2d	CREOSOTED WOOD	0.000027235	t/TJ
2020	BC	1A2d	DEMOLITION WOOD	0.000028597	t/TJ
2020	BC	1A2d	FOREST RESIDUE CHIPS	0.000011673	t/TJ
2020	BC	1A2d	GASOIL (FOR NON-ROAD USE)	0.000958765	t/TJ
2020	BC	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000225712	t/TJ
2020	BC	1A2d	HEAVY FUEL OIL (S<1%)	0.000547773	t/TJ
2020	BC	1A2d	INDUSTRIAL WASTE	0.000544289	t/TJ
2020	BC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000195126	t/TJ
2020	BC	1A2d	LIQUID GAS	0.000000004	t/TJ
2020	BC	1A2d	METHANOL	0.000063827	t/TJ
2020	BC	1A2d	MILLED PEAT	0.000046813	t/TJ
2020	BC	1A2d	NATURAL GAS	0.000028938	t/TJ
2020	BC	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000027731	t/TJ
2020	BC	1A2d	OTHER FOSSIL SOLID	0.000035279	t/TJ
2020	BC	1A2d	OTHER NON-FOSSIL LIQUID	0.000906384	t/TJ
2020	BC	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000023596	t/TJ
2020	BC	1A2d	PAPER	0.000002240	t/TJ
2020	BC	1A2d	PLASTIC WASTE	0.000182434	t/TJ
2020	BC	1A2d	RECOVERED FUEL (REF 1)	0.000005700	t/TJ
2020	BC	1A2d	RECOVERED FUEL (REF 2)	0.000017332	t/TJ
2020	BC	1A2d	RECOVERED WOOD	0.000016786	t/TJ
2020	BC	1A2d	RECYCLED AND WASTE OILS	0.000556746	t/TJ
2020	BC	1A2d	SAWDUST AND CUTTER CHIPS	0.000426668	t/TJ
2020	BC	1A2d	TALL PITCH AND OIL	0.000111860	t/TJ
2020	BC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000039734	t/TJ
2020	BC	1A2d	WOOD RESIDUE CHIPS	0.000014660	t/TJ
2020	BC	1A2e	ANIMAL-BASED FUELS	0.000954599	t/TJ
2020	BC	1A2e	CHIPS FROM ROUNDWOOD	0.000058178	t/TJ
2020	BC	1A2e	COAL (S=1.0%)	0.000028701	t/TJ
2020	BC	1A2e	COKE (S=1.0%)	0.000150000	t/TJ
2020	BC	1A2e	DIESEL OIL (S=001%)	0.000281400	t/TJ
2020	BC	1A2e	GASOIL (FOR NON-ROAD USE)	0.000226660	t/TJ
2020	BC	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000077241	t/TJ
2020	BC	1A2e	HEAVY FUEL OIL (S<1%)	0.007868337	t/TJ
2020	BC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.000165214	t/TJ
2020	BC	1A2e	MILLED PEAT	0.000018279	t/TJ
2020	BC	1A2e	OTHER NON-FOSSIL LIQUID	0.000105059	t/TJ

2020	BC	1A2e	OTHER NON-FOSSIL SOLID	0.000115500	t/TJ
2020	BC	1A2e	PEAT PELLETS AND BRIQUETTES	0.000015996	t/TJ
2020	BC	1A2e	RECOVERED WOOD	0.000015996	t/TJ
2020	BC	1A2e	SAWDUST AND CUTTER CHIPS	0.000072286	t/TJ
2020	BC	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000330000	t/TJ
2020	BC	1A2e	WOOD RESIDUE CHIPS	0.000115500	t/TJ
2020	BC	1A2f	CHIPS FROM ROUNDWOOD	0.000478262	t/TJ
2020	BC	1A2f	COAL (S=1.0%)	0.000030965	t/TJ
2020	BC	1A2f	COKE (S=1.0%)	0.000066469	t/TJ
2020	BC	1A2f	DIESEL OIL (S=001%)	0.000182074	t/TJ
2020	BC	1A2f	FOREST RESIDUE CHIPS	0.000253921	t/TJ
2020	BC	1A2f	GASOIL (FOR NON-ROAD USE)	0.000277334	t/TJ
2020	BC	1A2f	HEAVY FUEL OIL (S<1%)	0.007085796	t/TJ
2020	BC	1A2f	INDUSTRIAL WASTE	0.000027094	t/TJ
2020	BC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000318371	t/TJ
2020	BC	1A2f	OTHER FOSSIL SOLID	0.000003548	t/TJ
2020	BC	1A2f	OTHER HEAVY DISTILLATES	0.000623377	t/TJ
2020	BC	1A2f	OTHER WASTE	0.000056334	t/TJ
2020	BC	1A2f	PETROLEUM COKE	0.000055774	t/TJ
2020	BC	1A2f	RECOVERED FUEL (REF 1)	0.000004137	t/TJ
2020	BC	1A2f	RECOVERED WOOD	0.000088872	t/TJ
2020	BC	1A2f	RECYCLED AND WASTE OILS	0.000297402	t/TJ
2020	BC	1A2f	RUBBER WASTE	0.000767188	t/TJ
2020	BC	1A2f	SAWDUST AND CUTTER CHIPS	0.000035922	t/TJ
2020	BC	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.011133332	t/TJ
2020	BC	1A2gvii	LIQUID GAS	0.000206790	t/TJ
2020	BC	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000196947	t/TJ
2020	BC	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000006692	t/TJ
2020	BC	1A2gviii	BARK	0.000863763	t/TJ
2020	BC	1A2gviii	CHIPS FROM ROUNDWOOD	0.000286914	t/TJ
2020	BC	1A2gviii	DIESEL OIL (S=001%)	0.000427915	t/TJ
2020	BC	1A2gviii	FOREST RESIDUE CHIPS	0.000183556	t/TJ
2020	BC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.000329644	t/TJ
2020	BC	1A2gviii	HAZARDOUS WASTE	0.000000030	t/TJ
2020	BC	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.000826506	t/TJ
2020	BC	1A2gviii	HEAVY FUEL OIL (S<1%)	0.007728571	t/TJ
2020	BC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.001016533	t/TJ
2020	BC	1A2gviii	MILLED PEAT	0.000007118	t/TJ
2020	BC	1A2gviii	MUNICIPAL WASTE - unsorted	0.000000803	t/TJ
2020	BC	1A2gviii	OTHER HEAVY DISTILLATES	0.000785505	t/TJ
2020	BC	1A2gviii	OTHER NON-FOSSIL LIQUID	0.000186299	t/TJ
2020	BC	1A2gviii	OTHER NON-FOSSIL SOLID	0.000029450	t/TJ
2020	BC	1A2gviii	OTHER WOOD RESIDUE	0.000071201	t/TJ
2020	BC	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000056301	t/TJ
2020	BC	1A2gviii	RECOVERED FUEL (REF 2)	0.000002999	t/TJ
2020	BC	1A2gviii	RECOVERED WOOD	0.000038442	t/TJ
2020	BC	1A2gviii	RECYCLED AND WASTE OILS	0.000000021	t/TJ
2020	BC	1A2gviii	SAWDUST AND CUTTER CHIPS	0.001190259	t/TJ
2020	BC	1A2gviii	SOD PEAT	0.000095678	t/TJ
2020	BC	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000364902	t/TJ
2020	BC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000396055	t/TJ
2020	BC	1A2gviii	WOOD RESIDUE CHIPS	0.000155189	t/TJ
2020	BC	1A3ai(i)	KEROSENE (JET FUEL)	0.001139617	t/TJ
2020	BC	1A3aii(i)	AVIATION GASOLINE	0.004050000	t/TJ
2020	BC	1A3aii(i)	KEROSENE (JET FUEL)	0.001102193	t/TJ
2020	BC	1A3bi	DIESEL OIL (S=001%)	0.003748423	t/TJ

2020	BC	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000077186	t/TJ
2020	BC	1A3bii	DIESEL OIL (S=001%)	0.009003774	t/TJ
2020	BC	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000036580	t/TJ
2020	BC	1A3biii	DIESEL OIL (S=001%)	0.001285188	t/TJ
2020	BC	1A3biv	DIESEL OIL (S=001%)	0.057927553	t/TJ
2020	BC	1A3biv	MOTOR GASOLINE (S=0.001%)	0.001014928	t/TJ
2020	BC	1A3c	GASOIL (FOR NON-ROAD USE)	0.019535667	t/TJ
2020	BC	1A3dii	DIESEL OIL (S=001%)	0.047745432	t/TJ
2020	BC	1A3dii	GASOIL (FOR NON-ROAD USE)	0.009169409	t/TJ
2020	BC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.005504357	t/TJ
2020	BC	1A3dii	MOTOR GASOLINE (S=0.001%)	0.005910315	t/TJ
2020	BC	1A4ai	FOREST WOODFUEL	0.000503700	t/TJ
2020	BC	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000018817	t/TJ
2020	BC	1A4ai	HEAVY FUEL OIL (S<1%)	0.015120000	t/TJ
2020	BC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000281579	t/TJ
2020	BC	1A4ai	SOD PEAT	0.000572000	t/TJ
2020	BC	1A4aii	GASOIL (FOR NON-ROAD USE)	0.006059058	t/TJ
2020	BC	1A4aii	MOTOR GASOLINE (S=0.001%)	0.002406188	t/TJ
2020	BC	1A4bi	COAL (S=1.0%)	0.003520000	t/TJ
2020	BC	1A4bi	FOREST WOODFUEL	0.042977410	t/TJ
2020	BC	1A4bi	HEAVY FUEL OIL (S<1%)	0.006210000	t/TJ
2020	BC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.001641500	t/TJ
2020	BC	1A4bi	PARAFFIN	0.003528000	t/TJ
2020	BC	1A4bi	SOD PEAT	0.010560000	t/TJ
2020	BC	1A4bii	GASOIL (FOR NON-ROAD USE)	0.028265377	t/TJ
2020	BC	1A4bii	MOTOR GASOLINE (S=0.001%)	0.002357552	t/TJ
2020	BC	1A4ci	CHIPS FROM ROUNDWOOD	0.001108214	t/TJ
2020	BC	1A4ci	COAL (S=1.0%)	0.000075987	t/TJ
2020	BC	1A4ci	FOREST WOODFUEL	0.000500000	t/TJ
2020	BC	1A4ci	HEAVY FUEL OIL (S<1%)	0.015120000	t/TJ
2020	BC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000281400	t/TJ
2020	BC	1A4ci	OTHER NON-FOSSIL SOLID	0.000115500	t/TJ
2020	BC	1A4ci	RECOVERED WOOD	0.001588721	t/TJ
2020	BC	1A4ci	SOD PEAT	0.000657417	t/TJ
2020	BC	1A4ci	WOOD RESIDUE CHIPS	0.000491071	t/TJ
2020	BC	1A4cii	GASOIL (FOR NON-ROAD USE)	0.006255859	t/TJ
2020	BC	1A4cii	MOTOR GASOLINE (S=0.001%)	0.005885602	t/TJ
2020	BC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.010010417	t/TJ
2020	BC	1A5a	FOREST WOODFUEL	0.002800000	t/TJ
2020	BC	1A5a	HEAVY FUEL OIL (S<1%)	0.015120000	t/TJ
2020	BC	1A5a	KEROSENE (JET FUEL)	0.004760522	t/TJ
2020	BC	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.001015084	t/TJ
2020	BC	1A5a	OTHER PETROLEUM PRODUCTS	0.000047040	t/TJ

CO Implied emission factors in Finnish air pollutant inventory for 2020

2020	CO	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.118485598	t/TJ
2020	CO	1A1a	ANIMAL-BASED FUELS	0.018142757	t/TJ
2020	CO	1A1a	BARK	0.079721361	t/TJ
2020	CO	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0.020000000	t/TJ
2020	CO	1A1a	BLAST FURNACE GAS	0.020000000	t/TJ
2020	CO	1A1a	CHIPS FROM ROUNDWOOD	0.149461165	t/TJ
2020	CO	1A1a	COAL (S=1.0%)	0.013005859	t/TJ
2020	CO	1A1a	COKE OVEN GAS	0.020000000	t/TJ
2020	CO	1A1a	CREOSOTED WOOD	0.147320118	t/TJ
2020	CO	1A1a	DEINKING WASTE	0.014550089	t/TJ
2020	CO	1A1a	DEMOLITION WOOD	0.028822607	t/TJ
2020	CO	1A1a	DIESEL OIL (S=001%)	0.042361609	t/TJ
2020	CO	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.091958658	t/TJ
2020	CO	1A1a	FOREST RESIDUE CHIPS	0.133827869	t/TJ
2020	CO	1A1a	GASIFIED WASTE	0.046000000	t/TJ
2020	CO	1A1a	GASOIL (FOR NON-ROAD USE)	0.030414262	t/TJ
2020	CO	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.005896441	t/TJ
2020	CO	1A1a	HEAVY FUEL OIL (S<1%)	0.025146392	t/TJ
2020	CO	1A1a	HYDROGEN	0.020000000	t/TJ
2020	CO	1A1a	INDUSTRIAL BIOGAS	0.353025316	t/TJ
2020	CO	1A1a	INDUSTRIAL WASTE	0.088524026	t/TJ
2020	CO	1A1a	LANDFILL GAS	0.020000000	t/TJ
2020	CO	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.031444086	t/TJ
2020	CO	1A1a	LIQUID GAS	0.020453308	t/TJ
2020	CO	1A1a	MILLED PEAT	0.042177982	t/TJ
2020	CO	1A1a	MUNICIPAL WASTE - unsorted	0.003061852	t/TJ
2020	CO	1A1a	NATURAL GAS	0.010009868	t/TJ
2020	CO	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.145151347	t/TJ
2020	CO	1A1a	OTHER FOSSIL GAS	0.018713965	t/TJ
2020	CO	1A1a	OTHER FOSSIL SOLID	0.020011106	t/TJ
2020	CO	1A1a	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A1a	OTHER NON-FOSSIL GAS	0.013364190	t/TJ
2020	CO	1A1a	OTHER NON-FOSSIL LIQUID	0.248064413	t/TJ
2020	CO	1A1a	OTHER NON-FOSSIL SOLID	0.149685214	t/TJ
2020	CO	1A1a	OTHER WASTE	0.034645643	t/TJ
2020	CO	1A1a	OTHER WOOD RESIDUE	0.310816233	t/TJ
2020	CO	1A1a	PAPER	0.419176318	t/TJ
2020	CO	1A1a	PLASTIC WASTE	0.020226761	t/TJ
2020	CO	1A1a	PLYWOOD RESIDUE	0.109757228	t/TJ
2020	CO	1A1a	RECOVERED FUEL (REF 1)	0.017486031	t/TJ
2020	CO	1A1a	RECOVERED FUEL (REF 2)	0.008469198	t/TJ
2020	CO	1A1a	RECOVERED FUEL (REF 3)	0.003080374	t/TJ
2020	CO	1A1a	RECOVERED WOOD	0.044731658	t/TJ
2020	CO	1A1a	RECYCLED AND WASTE OILS	0.031131470	t/TJ
2020	CO	1A1a	REFINERY GAS	0.014090687	t/TJ
2020	CO	1A1a	REFUSE-DERIVED FUEL (RDF)	0.003728685	t/TJ
2020	CO	1A1a	SAWDUST AND CUTTER CHIPS	0.210825287	t/TJ
2020	CO	1A1a	SOD PEAT	0.117904436	t/TJ
2020	CO	1A1a	TALL PITCH AND OIL	0.400000000	t/TJ
2020	CO	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.222265792	t/TJ
2020	CO	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.169546429	t/TJ
2020	CO	1A1a	WOOD RESIDUE CHIPS	0.283039856	t/TJ
2020	CO	1A1b	COKE (S=1.0%)	1.817433780	t/TJ

2020	CO	1A1b	DIESEL OIL (S=001%)	0.020000000	t/TJ
2020	CO	1A1b	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A1b	HEAVY FUEL OIL (S<1%)	0.043557979	t/TJ
2020	CO	1A1b	INDUSTRIAL BIOGAS	0.020000000	t/TJ
2020	CO	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.020000000	t/TJ
2020	CO	1A1b	LIQUID GAS	0.021274313	t/TJ
2020	CO	1A1b	NATURAL GAS	0.020430243	t/TJ
2020	CO	1A1b	OTHER FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A1b	OTHER FOSSIL LIQUID	0.020000000	t/TJ
2020	CO	1A1b	OTHER MEDIUM DISTILLATES	0.020000000	t/TJ
2020	CO	1A1b	PETROLEUM COKE	0.030000000	t/TJ
2020	CO	1A1b	REFINERY GAS	0.024160166	t/TJ
2020	CO	1A2a	BLAST FURNACE GAS	0.020000000	t/TJ
2020	CO	1A2a	COKE (S=1.0%)	0.673142270	t/TJ
2020	CO	1A2a	COKE OVEN GAS	0.020000000	t/TJ
2020	CO	1A2a	DIESEL OIL (S=001%)	0.020000000	t/TJ
2020	CO	1A2a	GASOIL (FOR NON-ROAD USE)	0.068131436	t/TJ
2020	CO	1A2a	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A2a	LIGHT FUEL OIL (S=0.0915%)	2.856547436	t/TJ
2020	CO	1A2a	LIQUID GAS	0.023182072	t/TJ
2020	CO	1A2a	NATURAL GAS	0.019793935	t/TJ
2020	CO	1A2a	OTHER FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2a	OTHER FOSSIL SOLID	1.500000000	t/TJ
2020	CO	1A2a	OXYGEN STEEL FURNACE GAS	0.020000000	t/TJ
2020	CO	1A2a	WOOD RESIDUE CHIPS	0.024529409	t/TJ
2020	CO	1A2b	COAL (S=1.0%)	0.030000000	t/TJ
2020	CO	1A2b	COKE (S=1.0%)	0.020000000	t/TJ
2020	CO	1A2b	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A2b	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.020477676	t/TJ
2020	CO	1A2b	LIQUID GAS	0.665977196	t/TJ
2020	CO	1A2b	NATURAL GAS	0.020000000	t/TJ
2020	CO	1A2b	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A2c	COAL (S=1.0%)	0.030000000	t/TJ
2020	CO	1A2c	DIESEL OIL (S=001%)	113.471737600	t/TJ
2020	CO	1A2c	GASIFIED WASTE	0.046000000	t/TJ
2020	CO	1A2c	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.009115282	t/TJ
2020	CO	1A2c	HEAVY FUEL OIL (S<1%)	0.019824771	t/TJ
2020	CO	1A2c	HYDROGEN	0.020000000	t/TJ
2020	CO	1A2c	INDUSTRIAL BIOGAS	0.020000000	t/TJ
2020	CO	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.017859088	t/TJ
2020	CO	1A2c	LIQUID GAS	0.019943753	t/TJ
2020	CO	1A2c	NATURAL GAS	0.016583495	t/TJ
2020	CO	1A2c	OTHER FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2c	OTHER FOSSIL LIQUID	0.020000000	t/TJ
2020	CO	1A2c	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A2c	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2c	PETROLEUM COKE	0.020000000	t/TJ
2020	CO	1A2c	REFINERY GAS	0.020000000	t/TJ
2020	CO	1A2c	TALL PITCH AND OIL	0.020000000	t/TJ
2020	CO	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.145457527	t/TJ
2020	CO	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.211220794	t/TJ
2020	CO	1A2d	ANIMAL-BASED FUELS	0.011857170	t/TJ
2020	CO	1A2d	AROMATIC GAS	0.013760525	t/TJ
2020	CO	1A2d	BARK	0.080207180	t/TJ

2020	CO	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.017594959	t/TJ
2020	CO	1A2d	BLACK LIQUOR	0.090652957	t/TJ
2020	CO	1A2d	CHIPS FROM ROUNDWOOD	0.279389903	t/TJ
2020	CO	1A2d	COAL (S=1.0%)	0.008925755	t/TJ
2020	CO	1A2d	CREOSOTED WOOD	0.011857170	t/TJ
2020	CO	1A2d	DEMOLITION WOOD	0.011857170	t/TJ
2020	CO	1A2d	DIESEL OIL (S=001%)	0.020000000	t/TJ
2020	CO	1A2d	FOREST RESIDUE CHIPS	0.062837372	t/TJ
2020	CO	1A2d	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.036466715	t/TJ
2020	CO	1A2d	HEAVY FUEL OIL (S<1%)	0.052367156	t/TJ
2020	CO	1A2d	HYDROGEN	0.020000000	t/TJ
2020	CO	1A2d	INDUSTRIAL BIOGAS	0.020000000	t/TJ
2020	CO	1A2d	INDUSTRIAL WASTE	0.041809647	t/TJ
2020	CO	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.023820357	t/TJ
2020	CO	1A2d	LIQUID GAS	0.020001506	t/TJ
2020	CO	1A2d	METHANOL	0.060975257	t/TJ
2020	CO	1A2d	MILLED PEAT	0.052490445	t/TJ
2020	CO	1A2d	NATURAL GAS	0.036247702	t/TJ
2020	CO	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.150000000	t/TJ
2020	CO	1A2d	OTHER FOSSIL SOLID	0.020000000	t/TJ
2020	CO	1A2d	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A2d	OTHER NON-FOSSIL LIQUID	0.100395590	t/TJ
2020	CO	1A2d	OTHER WOOD RESIDUE	0.500000000	t/TJ
2020	CO	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.016941668	t/TJ
2020	CO	1A2d	PAPER	0.488555419	t/TJ
2020	CO	1A2d	PLASTIC WASTE	0.008332994	t/TJ
2020	CO	1A2d	RECOVERED FUEL (REF 1)	0.250000000	t/TJ
2020	CO	1A2d	RECOVERED FUEL (REF 2)	0.011857170	t/TJ
2020	CO	1A2d	RECOVERED WOOD	0.048352351	t/TJ
2020	CO	1A2d	RECYCLED AND WASTE OILS	0.011857170	t/TJ
2020	CO	1A2d	SAWDUST AND CUTTER CHIPS	0.159639300	t/TJ
2020	CO	1A2d	SULPHITE LIQUOR	0.150000000	t/TJ
2020	CO	1A2d	TALL PITCH AND OIL	0.031294548	t/TJ
2020	CO	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.488353962	t/TJ
2020	CO	1A2d	WOOD RESIDUE CHIPS	0.031520820	t/TJ
2020	CO	1A2e	ANIMAL-BASED FUELS	0.191979087	t/TJ
2020	CO	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.020000000	t/TJ
2020	CO	1A2e	CHIPS FROM ROUNDWOOD	0.500000000	t/TJ
2020	CO	1A2e	COAL (S=1.0%)	0.030000000	t/TJ
2020	CO	1A2e	COKE (S=1.0%)	0.050000000	t/TJ
2020	CO	1A2e	DIESEL OIL (S=001%)	0.020000000	t/TJ
2020	CO	1A2e	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.020000000	t/TJ
2020	CO	1A2e	HEAVY FUEL OIL (S<1%)	0.019094234	t/TJ
2020	CO	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.021315634	t/TJ
2020	CO	1A2e	LIQUID GAS	0.012279512	t/TJ
2020	CO	1A2e	MILLED PEAT	0.090101957	t/TJ
2020	CO	1A2e	NATURAL GAS	0.020000000	t/TJ
2020	CO	1A2e	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2e	OTHER NON-FOSSIL LIQUID	0.250000000	t/TJ
2020	CO	1A2e	OTHER NON-FOSSIL SOLID	0.150000000	t/TJ
2020	CO	1A2e	PEAT PELLETS AND BRIQUETTES	0.100000000	t/TJ
2020	CO	1A2e	RECOVERED WOOD	0.150000000	t/TJ
2020	CO	1A2e	SAWDUST AND CUTTER CHIPS	0.325050843	t/TJ
2020	CO	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.400000000	t/TJ

2020	CO	1A2e	WOOD RESIDUE CHIPS	0.500000000	t/TJ
2020	CO	1A2f	CHIPS FROM ROUNDWOOD	0.400000000	t/TJ
2020	CO	1A2f	COAL (S=1.0%)	0.805167143	t/TJ
2020	CO	1A2f	COKE (S=1.0%)	0.403978146	t/TJ
2020	CO	1A2f	COKE OVEN GAS	0.020000000	t/TJ
2020	CO	1A2f	DIESEL OIL (S=001%)	0.020000000	t/TJ
2020	CO	1A2f	FOREST RESIDUE CHIPS	0.400000000	t/TJ
2020	CO	1A2f	GASOIL (FOR NON-ROAD USE)	0.020185989	t/TJ
2020	CO	1A2f	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A2f	INDUSTRIAL BIOGAS	0.020000000	t/TJ
2020	CO	1A2f	INDUSTRIAL WASTE	0.150000000	t/TJ
2020	CO	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.020463583	t/TJ
2020	CO	1A2f	LIQUID GAS	0.017703281	t/TJ
2020	CO	1A2f	NATURAL GAS	0.036030727	t/TJ
2020	CO	1A2f	OTHER FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2f	OTHER FOSSIL SOLID	0.020000000	t/TJ
2020	CO	1A2f	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A2f	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2020	CO	1A2f	OTHER WASTE	0.150000000	t/TJ
2020	CO	1A2f	OXYGEN STEEL FURNACE GAS	0.020000000	t/TJ
2020	CO	1A2f	PETROLEUM COKE	1.054440453	t/TJ
2020	CO	1A2f	RECOVERED FUEL (REF 1)	0.250000000	t/TJ
2020	CO	1A2f	RECOVERED WOOD	0.150000000	t/TJ
2020	CO	1A2f	RECYCLED AND WASTE OILS	0.632782051	t/TJ
2020	CO	1A2f	RUBBER WASTE	1.500000000	t/TJ
2020	CO	1A2f	SAWDUST AND CUTTER CHIPS	0.524950388	t/TJ
2020	CO	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.320408588	t/TJ
2020	CO	1A2gvii	LIQUID GAS	0.950632088	t/TJ
2020	CO	1A2gvii	MOTOR GASOLINE (S=0.001%)	22.004988326	t/TJ
2020	CO	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.183978689	t/TJ
2020	CO	1A2gviii	BARK	0.330834107	t/TJ
2020	CO	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.224799966	t/TJ
2020	CO	1A2gviii	CHIPS FROM ROUNDWOOD	0.260332272	t/TJ
2020	CO	1A2gviii	CREOSOTED WOOD	0.001648052	t/TJ
2020	CO	1A2gviii	DEMOLITION WOOD	0.001361470	t/TJ
2020	CO	1A2gviii	DIESEL OIL (S=001%)	0.972673326	t/TJ
2020	CO	1A2gviii	FOREST RESIDUE CHIPS	0.366409908	t/TJ
2020	CO	1A2gviii	GASIFIED WASTE	0.046000000	t/TJ
2020	CO	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.021260383	t/TJ
2020	CO	1A2gviii	HAZARDOUS WASTE	0.003043315	t/TJ
2020	CO	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.018980735	t/TJ
2020	CO	1A2gviii	HEAVY FUEL OIL (S<1%)	0.021245445	t/TJ
2020	CO	1A2gviii	INDUSTRIAL BIOGAS	0.016947735	t/TJ
2020	CO	1A2gviii	LANDFILL GAS	0.227795157	t/TJ
2020	CO	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.033606457	t/TJ
2020	CO	1A2gviii	LIQUID GAS	0.021803166	t/TJ
2020	CO	1A2gviii	MILLED PEAT	0.040151205	t/TJ
2020	CO	1A2gviii	MUNICIPAL WASTE - unsorted	0.003660430	t/TJ
2020	CO	1A2gviii	NATURAL GAS	0.055338663	t/TJ
2020	CO	1A2gviii	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2020	CO	1A2gviii	OTHER NON-FOSSIL GAS	0.020017536	t/TJ
2020	CO	1A2gviii	OTHER NON-FOSSIL LIQUID	0.250000000	t/TJ
2020	CO	1A2gviii	OTHER NON-FOSSIL SOLID	0.025504019	t/TJ
2020	CO	1A2gviii	OTHER WASTE	0.001373383	t/TJ
2020	CO	1A2gviii	OTHER WOOD RESIDUE	0.500000000	t/TJ
2020	CO	1A2gviii	PLASTIC WASTE	0.002968020	t/TJ

2020	CO	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000368426	t/TJ
2020	CO	1A2gviii	RECOVERED FUEL (REF 2)	0.013445017	t/TJ
2020	CO	1A2gviii	RECOVERED WOOD	0.086241002	t/TJ
2020	CO	1A2gviii	RECYCLED AND WASTE OILS	0.000290712	t/TJ
2020	CO	1A2gviii	SALT TREATED WOOD	0.001635518	t/TJ
2020	CO	1A2gviii	SAWDUST AND CUTTER CHIPS	0.449983176	t/TJ
2020	CO	1A2gviii	SOD PEAT	0.500000000	t/TJ
2020	CO	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.426436972	t/TJ
2020	CO	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.514749186	t/TJ
2020	CO	1A2gviii	WOOD RESIDUE CHIPS	0.481521216	t/TJ
2020	CO	1A3ai(i)	KEROSENE (JET FUEL)	0.329074403	t/TJ
2020	CO	1A3aii(i)	AVIATION GASOLINE	27.903451647	t/TJ
2020	CO	1A3aii(i)	KEROSENE (JET FUEL)	0.403913594	t/TJ
2020	CO	1A3bi	DIESEL OIL (S=001%)	0.027581983	t/TJ
2020	CO	1A3bi	MOTOR GASOLINE (S=0.001%)	0.403975895	t/TJ
2020	CO	1A3bi	NATURAL GAS	0.121288490	t/TJ
2020	CO	1A3bii	DIESEL OIL (S=001%)	0.098852401	t/TJ
2020	CO	1A3bii	MOTOR GASOLINE (S=0.001%)	2.843758477	t/TJ
2020	CO	1A3bii	NATURAL GAS	0.135623980	t/TJ
2020	CO	1A3biii	DIESEL OIL (S=001%)	0.041220932	t/TJ
2020	CO	1A3biii	NATURAL GAS	0.039240111	t/TJ
2020	CO	1A3biv	DIESEL OIL (S=001%)	0.737630125	t/TJ
2020	CO	1A3biv	MOTOR GASOLINE (S=0.001%)	2.660363994	t/TJ
2020	CO	1A3c	GASOIL (FOR NON-ROAD USE)	0.213512196	t/TJ
2020	CO	1A3dii	DIESEL OIL (S=001%)	0.391255779	t/TJ
2020	CO	1A3dii	GASOIL (FOR NON-ROAD USE)	0.185460488	t/TJ
2020	CO	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.187798552	t/TJ
2020	CO	1A3dii	MOTOR GASOLINE (S=0.001%)	12.973730367	t/TJ
2020	CO	1A3ei	NATURAL GAS	0.020000000	t/TJ
2020	CO	1A4ai	FOREST WOODFUEL	0.229078000	t/TJ
2020	CO	1A4ai	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2020	CO	1A4ai	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.020490132	t/TJ
2020	CO	1A4ai	NATURAL GAS	0.047782477	t/TJ
2020	CO	1A4ai	SOD PEAT	0.173333333	t/TJ
2020	CO	1A4aii	GASOIL (FOR NON-ROAD USE)	0.294145213	t/TJ
2020	CO	1A4aii	MOTOR GASOLINE (S=0.001%)	20.400660870	t/TJ
2020	CO	1A4bi	COAL (S=1.0%)	0.100000000	t/TJ
2020	CO	1A4bi	FOREST WOODFUEL	2.862396191	t/TJ
2020	CO	1A4bi	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.020000000	t/TJ
2020	CO	1A4bi	LIQUID GAS	0.050000000	t/TJ
2020	CO	1A4bi	NATURAL GAS	0.050000000	t/TJ
2020	CO	1A4bi	PARAFFIN	0.020000000	t/TJ
2020	CO	1A4bi	SOD PEAT	0.200000000	t/TJ
2020	CO	1A4bii	GASOIL (FOR NON-ROAD USE)	0.408305113	t/TJ
2020	CO	1A4bii	MOTOR GASOLINE (S=0.001%)	20.531172233	t/TJ
2020	CO	1A4ci	CHIPS FROM ROUNDWOOD	0.500000000	t/TJ
2020	CO	1A4ci	COAL (S=1.0%)	0.050000000	t/TJ
2020	CO	1A4ci	FOREST WOODFUEL	0.233000000	t/TJ
2020	CO	1A4ci	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.020000000	t/TJ
2020	CO	1A4ci	LIQUID GAS	0.050000000	t/TJ
2020	CO	1A4ci	OTHER NON-FOSSIL SOLID	0.150000000	t/TJ
2020	CO	1A4ci	RECOVERED WOOD	0.150000000	t/TJ
2020	CO	1A4ci	SOD PEAT	0.202347826	t/TJ

2020	CO	1A4ci	WOOD RESIDUE CHIPS	0.500000000	t/TJ
2020	CO	1A4cii	GASOIL (FOR NON-ROAD USE)	0.238443563	t/TJ
2020	CO	1A4cii	MOTOR GASOLINE (S=0.001%)	17.321325695	t/TJ
2020	CO	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.193750000	t/TJ
2020	CO	1A5a	AVIATION GASOLINE	23.437500000	t/TJ
2020	CO	1A5a	FOREST WOODFUEL	0.500000000	t/TJ
2020	CO	1A5a	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2020	CO	1A5a	KEROSENE (JET FUEL)	0.241896468	t/TJ
2020	CO	1A5a	LANDFILL GAS	0.050000000	t/TJ
2020	CO	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.038245439	t/TJ
2020	CO	1A5a	LIQUID GAS	0.050000000	t/TJ
2020	CO	1A5a	NATURAL GAS	0.050000000	t/TJ
2020	CO	1A5a	OTHER PETROLEUM PRODUCTS	0.020000000	t/TJ

Pb Implied emission factors in Finnish air pollutant inventory for 2020

2020	Pb	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.002426689	kg/TJ
2020	Pb	1A1a	ANIMAL-BASED FUELS	0.000157708	kg/TJ
2020	Pb	1A1a	BARK	0.007245075	kg/TJ
2020	Pb	1A1a	CHIPS FROM ROUNDWOOD	0.005185290	kg/TJ
2020	Pb	1A1a	COAL (S=1.0%)	0.001091788	kg/TJ
2020	Pb	1A1a	CREOSOTED WOOD	0.003335616	kg/TJ
2020	Pb	1A1a	DEINKING WASTE	0.045000000	kg/TJ
2020	Pb	1A1a	DEMOLITION WOOD	0.000827296	kg/TJ
2020	Pb	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.002702308	kg/TJ
2020	Pb	1A1a	FOREST RESIDUE CHIPS	0.013242029	kg/TJ
2020	Pb	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.002551253	kg/TJ
2020	Pb	1A1a	HEAVY FUEL OIL (S<1%)	0.011524974	kg/TJ
2020	Pb	1A1a	INDUSTRIAL WASTE	0.001785074	kg/TJ
2020	Pb	1A1a	MILLED PEAT	0.008845801	kg/TJ
2020	Pb	1A1a	MUNICIPAL WASTE - unsorted	0.015484972	kg/TJ
2020	Pb	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003400000	kg/TJ
2020	Pb	1A1a	OTHER FOSSIL SOLID	0.003870085	kg/TJ
2020	Pb	1A1a	OTHER HEAVY DISTILLATES	0.025000000	kg/TJ
2020	Pb	1A1a	OTHER NON-FOSSIL SOLID	0.003630984	kg/TJ
2020	Pb	1A1a	OTHER WASTE	0.000559031	kg/TJ
2020	Pb	1A1a	OTHER WOOD RESIDUE	0.013780946	kg/TJ
2020	Pb	1A1a	PAPER	0.001074633	kg/TJ
2020	Pb	1A1a	PLASTIC WASTE	0.000188743	kg/TJ
2020	Pb	1A1a	PLYWOOD RESIDUE	0.001473425	kg/TJ
2020	Pb	1A1a	RECOVERED FUEL (REF 1)	0.045000000	kg/TJ
2020	Pb	1A1a	RECOVERED FUEL (REF 2)	0.002313613	kg/TJ
2020	Pb	1A1a	RECOVERED FUEL (REF 3)	0.001023346	kg/TJ
2020	Pb	1A1a	RECOVERED WOOD	0.003018008	kg/TJ
2020	Pb	1A1a	RECYCLED AND WASTE OILS	0.001400855	kg/TJ
2020	Pb	1A1a	REFUSE-DERIVED FUEL (RDF)	0.001046154	kg/TJ
2020	Pb	1A1a	SAWDUST AND CUTTER CHIPS	0.006988423	kg/TJ
2020	Pb	1A1a	SOD PEAT	0.166648755	kg/TJ
2020	Pb	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.009022969	kg/TJ
2020	Pb	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.006496009	kg/TJ
2020	Pb	1A1a	WOOD RESIDUE CHIPS	0.018168673	kg/TJ
2020	Pb	1A1b	COKE (S=1.0%)	0.790000000	kg/TJ
2020	Pb	1A1b	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A1b	PETROLEUM COKE	0.790000000	kg/TJ
2020	Pb	1A2a	HEAVY FUEL OIL (S<1%)	0.025030129	kg/TJ
2020	Pb	1A2a	WOOD RESIDUE CHIPS	0.045000000	kg/TJ
2020	Pb	1A2b	HEAVY FUEL OIL (S<1%)	0.002532522	kg/TJ
2020	Pb	1A2c	COAL (S=1.0%)	0.001200000	kg/TJ
2020	Pb	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.025000000	kg/TJ
2020	Pb	1A2c	HEAVY FUEL OIL (S<1%)	0.024869986	kg/TJ
2020	Pb	1A2c	OTHER FOSSIL LIQUID	0.025000000	kg/TJ
2020	Pb	1A2c	OTHER HEAVY DISTILLATES	0.025000000	kg/TJ
2020	Pb	1A2c	PETROLEUM COKE	0.790000000	kg/TJ
2020	Pb	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.045000000	kg/TJ
2020	Pb	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.009237859	kg/TJ
2020	Pb	1A2d	ANIMAL-BASED FUELS	0.000873232	kg/TJ
2020	Pb	1A2d	BARK	0.005280320	kg/TJ
2020	Pb	1A2d	BLACK LIQUOR	0.015082229	kg/TJ
2020	Pb	1A2d	CHIPS FROM ROUNDWOOD	0.004059742	kg/TJ

2020	Pb	1A2d	COAL (S=1.0%)	0.000209607	kg/TJ
2020	Pb	1A2d	CREOSOTED WOOD	0.002838003	kg/TJ
2020	Pb	1A2d	DEMOLITION WOOD	0.002838003	kg/TJ
2020	Pb	1A2d	FOREST RESIDUE CHIPS	0.008401346	kg/TJ
2020	Pb	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000669431	kg/TJ
2020	Pb	1A2d	HEAVY FUEL OIL (S<1%)	0.006749856	kg/TJ
2020	Pb	1A2d	INDUSTRIAL WASTE	0.011381214	kg/TJ
2020	Pb	1A2d	METHANOL	0.000089066	kg/TJ
2020	Pb	1A2d	MILLED PEAT	0.000696973	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Pb	1A2d	TRY	0.003400000	kg/TJ
2020	Pb	1A2d	OTHER FOSSIL SOLID	0.003900000	kg/TJ
2020	Pb	1A2d	OTHER HEAVY DISTILLATES	0.010000000	kg/TJ
2020	Pb	1A2d	OTHER WOOD RESIDUE	0.006000000	kg/TJ
2020	Pb	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.013197278	kg/TJ
2020	Pb	1A2d	PAPER	0.000169257	kg/TJ
2020	Pb	1A2d	PLASTIC WASTE	0.000027779	kg/TJ
2020	Pb	1A2d	RECOVERED FUEL (REF 1)	0.028678952	kg/TJ
2020	Pb	1A2d	RECOVERED FUEL (REF 2)	0.002838003	kg/TJ
2020	Pb	1A2d	RECOVERED WOOD	0.003666515	kg/TJ
2020	Pb	1A2d	RECYCLED AND WASTE OILS	0.001001648	kg/TJ
2020	Pb	1A2d	SAWDUST AND CUTTER CHIPS	0.017571379	kg/TJ
2020	Pb	1A2d	SULPHITE LIQUOR	0.000694691	kg/TJ
2020	Pb	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005428820	kg/TJ
2020	Pb	1A2d	WOOD RESIDUE CHIPS	0.001079814	kg/TJ
2020	Pb	1A2e	ANIMAL-BASED FUELS	0.045000000	kg/TJ
2020	Pb	1A2e	CHIPS FROM ROUNDWOOD	0.003400000	kg/TJ
2020	Pb	1A2e	COAL (S=1.0%)	0.004030523	kg/TJ
2020	Pb	1A2e	COKE (S=1.0%)	0.790000000	kg/TJ
2020	Pb	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.025000000	kg/TJ
2020	Pb	1A2e	HEAVY FUEL OIL (S<1%)	0.026578060	kg/TJ
2020	Pb	1A2e	MILLED PEAT	0.135541937	kg/TJ
2020	Pb	1A2e	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2020	Pb	1A2e	PEAT PELLETS AND BRIQUETTES	0.001000000	kg/TJ
2020	Pb	1A2e	RECOVERED WOOD	0.003400000	kg/TJ
2020	Pb	1A2e	SAWDUST AND CUTTER CHIPS	0.020325314	kg/TJ
2020	Pb	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.045000000	kg/TJ
2020	Pb	1A2e	WOOD RESIDUE CHIPS	0.045000000	kg/TJ
2020	Pb	1A2f	CHIPS FROM ROUNDWOOD	0.045000000	kg/TJ
2020	Pb	1A2f	COAL (S=1.0%)	0.466176353	kg/TJ
2020	Pb	1A2f	COKE (S=1.0%)	0.667211106	kg/TJ
2020	Pb	1A2f	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2020	Pb	1A2f	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A2f	INDUSTRIAL WASTE	0.018843669	kg/TJ
2020	Pb	1A2f	OTHER FOSSIL SOLID	0.001633118	kg/TJ
2020	Pb	1A2f	OTHER HEAVY DISTILLATES	0.025000000	kg/TJ
2020	Pb	1A2f	OTHER WASTE	0.001423744	kg/TJ
2020	Pb	1A2f	PETROLEUM COKE	0.003117929	kg/TJ
2020	Pb	1A2f	RECOVERED FUEL (REF 1)	0.008541063	kg/TJ
2020	Pb	1A2f	RECOVERED WOOD	0.003400000	kg/TJ
2020	Pb	1A2f	RECYCLED AND WASTE OILS	0.000826683	kg/TJ
2020	Pb	1A2f	RUBBER WASTE	0.001423744	kg/TJ
2020	Pb	1A2f	SAWDUST AND CUTTER CHIPS	0.003041055	kg/TJ
2020	Pb	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.003400000	kg/TJ
2020	Pb	1A2gviii	BARK	0.018927535	kg/TJ
2020	Pb	1A2gviii	CHIPS FROM ROUNDWOOD	0.005656501	kg/TJ
2020	Pb	1A2gviii	CREOSOTED WOOD	0.000158102	kg/TJ

2020	Pb	1A2gviii	DEMOLITION WOOD	0.000708280	kg/TJ
2020	Pb	1A2gviii	FOREST RESIDUE CHIPS	0.022653349	kg/TJ
2020	Pb	1A2gviii	HAZARDOUS WASTE	0.000158806	kg/TJ
2020	Pb	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.025000000	kg/TJ
2020	Pb	1A2gviii	HEAVY FUEL OIL (S<1%)	0.023758572	kg/TJ
2020	Pb	1A2gviii	MILLED PEAT	0.001324249	kg/TJ
2020	Pb	1A2gviii	MUNICIPAL WASTE - unsorted	0.000078443	kg/TJ
2020	Pb	1A2gviii	OTHER HEAVY DISTILLATES	0.014512975	kg/TJ
2020	Pb	1A2gviii	OTHER NON-FOSSIL SOLID	0.003615813	kg/TJ
2020	Pb	1A2gviii	OTHER WASTE	0.000132427	kg/TJ
2020	Pb	1A2gviii	OTHER WOOD RESIDUE	0.002832141	kg/TJ
2020	Pb	1A2gviii	PLASTIC WASTE	0.000149085	kg/TJ
2020	Pb	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000112570	kg/TJ
2020	Pb	1A2gviii	RECOVERED FUEL (REF 2)	0.045000000	kg/TJ
2020	Pb	1A2gviii	RECOVERED WOOD	0.005880177	kg/TJ
2020	Pb	1A2gviii	RECYCLED AND WASTE OILS	0.000015915	kg/TJ
2020	Pb	1A2gviii	SALT TREATED WOOD	0.000156931	kg/TJ
2020	Pb	1A2gviii	SAWDUST AND CUTTER CHIPS	0.028352049	kg/TJ
2020	Pb	1A2gviii	SOD PEAT	0.031119916	kg/TJ
2020	Pb	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.016583700	kg/TJ
2020	Pb	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.043456886	kg/TJ
2020	Pb	1A2gviii	WOOD RESIDUE CHIPS	0.026790122	kg/TJ
2020	Pb	1A3aii(i)	AVIATION GASOLINE	13.443935927	kg/TJ
2020	Pb	1A3bi	DIESEL OIL (S=001%)	0.000011679	kg/TJ
2020	Pb	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000038330	kg/TJ
2020	Pb	1A3bii	DIESEL OIL (S=001%)	0.000011679	kg/TJ
2020	Pb	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000038261	kg/TJ
2020	Pb	1A3biii	DIESEL OIL (S=001%)	0.000011679	kg/TJ
2020	Pb	1A3biv	DIESEL OIL (S=001%)	0.000011301	kg/TJ
2020	Pb	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000038261	kg/TJ
2020	Pb	1A3dii	GASOIL (FOR NON-ROAD USE)	0.003018455	kg/TJ
2020	Pb	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.004437904	kg/TJ
2020	Pb	1A4ai	FOREST WOODFUEL	0.010000000	kg/TJ
2020	Pb	1A4ai	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A4ai	SOD PEAT	0.170000000	kg/TJ
2020	Pb	1A4bi	COAL (S=1.0%)	0.395000000	kg/TJ
2020	Pb	1A4bi	FOREST WOODFUEL	0.010000000	kg/TJ
2020	Pb	1A4bi	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A4bi	SOD PEAT	0.170000000	kg/TJ
2020	Pb	1A4ci	CHIPS FROM ROUNDWOOD	0.003400000	kg/TJ
2020	Pb	1A4ci	COAL (S=1.0%)	0.003900000	kg/TJ
2020	Pb	1A4ci	FOREST WOODFUEL	0.010000000	kg/TJ
2020	Pb	1A4ci	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A4ci	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2020	Pb	1A4ci	RECOVERED WOOD	0.003400000	kg/TJ
2020	Pb	1A4ci	SOD PEAT	0.170000000	kg/TJ
2020	Pb	1A4ci	WOOD RESIDUE CHIPS	0.045000000	kg/TJ
2020	Pb	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.003009259	kg/TJ
2020	Pb	1A5a	FOREST WOODFUEL	0.045000000	kg/TJ
2020	Pb	1A5a	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2020	Pb	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000270398	kg/TJ
2020	Pb	1A5a	OTHER PETROLEUM PRODUCTS	0.025000000	kg/TJ

Cd Implied emission factors in Finnish air pollutant inventory for 2020

2020	Cd	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000317197	kg/TJ
2020	Cd	1A1a	ANIMAL-BASED FUELS	0.000051862	kg/TJ
2020	Cd	1A1a	BARK	0.000807840	kg/TJ
2020	Cd	1A1a	CHIPS FROM ROUNDWOOD	0.000637004	kg/TJ
2020	Cd	1A1a	COAL (S=1.0%)	0.000072972	kg/TJ
2020	Cd	1A1a	CREOSOTED WOOD	0.000490685	kg/TJ
2020	Cd	1A1a	DEINKING WASTE	0.005000000	kg/TJ
2020	Cd	1A1a	DEMOLITION WOOD	0.000018866	kg/TJ
2020	Cd	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000385245	kg/TJ
2020	Cd	1A1a	FOREST RESIDUE CHIPS	0.001490169	kg/TJ
2020	Cd	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000142211	kg/TJ
2020	Cd	1A1a	HEAVY FUEL OIL (S<1%)	0.000197554	kg/TJ
2020	Cd	1A1a	INDUSTRIAL WASTE	0.000195249	kg/TJ
2020	Cd	1A1a	MILLED PEAT	0.000151773	kg/TJ
2020	Cd	1A1a	MUNICIPAL WASTE - unsorted	0.001809758	kg/TJ
2020	Cd	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000500000	kg/TJ
2020	Cd	1A1a	OTHER FOSSIL SOLID	0.000198532	kg/TJ
2020	Cd	1A1a	OTHER HEAVY DISTILLATES	0.000300000	kg/TJ
2020	Cd	1A1a	OTHER NON-FOSSIL SOLID	0.000523897	kg/TJ
2020	Cd	1A1a	OTHER WASTE	0.000021892	kg/TJ
2020	Cd	1A1a	OTHER WOOD RESIDUE	0.000817600	kg/TJ
2020	Cd	1A1a	PAPER	0.000057474	kg/TJ
2020	Cd	1A1a	PLASTIC WASTE	0.000061706	kg/TJ
2020	Cd	1A1a	PLYWOOD RESIDUE	0.000500000	kg/TJ
2020	Cd	1A1a	RECOVERED FUEL (REF 1)	0.005000000	kg/TJ
2020	Cd	1A1a	RECOVERED FUEL (REF 2)	0.000115162	kg/TJ
2020	Cd	1A1a	RECOVERED FUEL (REF 3)	0.000217073	kg/TJ
2020	Cd	1A1a	RECOVERED WOOD	0.000263150	kg/TJ
2020	Cd	1A1a	RECYCLED AND WASTE OILS	0.000073916	kg/TJ
2020	Cd	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000225000	kg/TJ
2020	Cd	1A1a	SAWDUST AND CUTTER CHIPS	0.000861672	kg/TJ
2020	Cd	1A1a	SOD PEAT	0.002746053	kg/TJ
2020	Cd	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.002103403	kg/TJ
2020	Cd	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000793045	kg/TJ
2020	Cd	1A1a	WOOD RESIDUE CHIPS	0.001884435	kg/TJ
2020	Cd	1A1b	COKE (S=1.0%)	0.018000000	kg/TJ
2020	Cd	1A1b	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A1b	PETROLEUM COKE	0.018000000	kg/TJ
2020	Cd	1A2a	HEAVY FUEL OIL (S<1%)	0.000331086	kg/TJ
2020	Cd	1A2a	WOOD RESIDUE CHIPS	0.005000000	kg/TJ
2020	Cd	1A2b	HEAVY FUEL OIL (S<1%)	0.000030390	kg/TJ
2020	Cd	1A2c	COAL (S=1.0%)	0.000090000	kg/TJ
2020	Cd	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000300000	kg/TJ
2020	Cd	1A2c	HEAVY FUEL OIL (S<1%)	0.000299133	kg/TJ
2020	Cd	1A2c	OTHER FOSSIL LIQUID	0.000300000	kg/TJ
2020	Cd	1A2c	OTHER HEAVY DISTILLATES	0.000300000	kg/TJ
2020	Cd	1A2c	PETROLEUM COKE	0.018000000	kg/TJ
2020	Cd	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005000000	kg/TJ
2020	Cd	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000306910	kg/TJ
2020	Cd	1A2d	ANIMAL-BASED FUELS	0.000052450	kg/TJ
2020	Cd	1A2d	BARK	0.000281244	kg/TJ
2020	Cd	1A2d	BLACK LIQUOR	0.000951593	kg/TJ
2020	Cd	1A2d	CHIPS FROM ROUNDWOOD	0.000427954	kg/TJ

2020	Cd	1A2d	COAL (S=1.0%)	0.000005081	kg/TJ
2020	Cd	1A2d	CREOSOTED WOOD	0.000116555	kg/TJ
2020	Cd	1A2d	DEMOLITION WOOD	0.000116555	kg/TJ
2020	Cd	1A2d	FOREST RESIDUE CHIPS	0.000208763	kg/TJ
2020	Cd	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000032980	kg/TJ
2020	Cd	1A2d	HEAVY FUEL OIL (S<1%)	0.000154570	kg/TJ
2020	Cd	1A2d	INDUSTRIAL WASTE	0.001339571	kg/TJ
2020	Cd	1A2d	METHANOL	0.000011435	kg/TJ
2020	Cd	1A2d	MILLED PEAT	0.000004943	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Cd	1A2d	TRY	0.000096618	kg/TJ
2020	Cd	1A2d	OTHER FOSSIL SOLID	0.000200000	kg/TJ
2020	Cd	1A2d	OTHER HEAVY DISTILLATES	0.000200000	kg/TJ
2020	Cd	1A2d	OTHER WOOD RESIDUE	0.000650000	kg/TJ
2020	Cd	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000451656	kg/TJ
2020	Cd	1A2d	PAPER	0.000005367	kg/TJ
2020	Cd	1A2d	PLASTIC WASTE	0.000003850	kg/TJ
2020	Cd	1A2d	RECOVERED FUEL (REF 1)	0.003140365	kg/TJ
2020	Cd	1A2d	RECOVERED FUEL (REF 2)	0.000116555	kg/TJ
2020	Cd	1A2d	RECOVERED WOOD	0.000137039	kg/TJ
2020	Cd	1A2d	RECYCLED AND WASTE OILS	0.000020980	kg/TJ
2020	Cd	1A2d	SAWDUST AND CUTTER CHIPS	0.001948089	kg/TJ
2020	Cd	1A2d	SULPHITE LIQUOR	0.000125243	kg/TJ
2020	Cd	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000663864	kg/TJ
2020	Cd	1A2d	WOOD RESIDUE CHIPS	0.000073348	kg/TJ
2020	Cd	1A2e	ANIMAL-BASED FUELS	0.005000000	kg/TJ
2020	Cd	1A2e	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2020	Cd	1A2e	COAL (S=1.0%)	0.000214961	kg/TJ
2020	Cd	1A2e	COKE (S=1.0%)	0.018000000	kg/TJ
2020	Cd	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000300000	kg/TJ
2020	Cd	1A2e	HEAVY FUEL OIL (S<1%)	0.000316977	kg/TJ
2020	Cd	1A2e	MILLED PEAT	0.002233175	kg/TJ
2020	Cd	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2020	Cd	1A2e	PEAT PELLETS AND BRIQUETTES	0.000020000	kg/TJ
2020	Cd	1A2e	RECOVERED WOOD	0.000500000	kg/TJ
2020	Cd	1A2e	SAWDUST AND CUTTER CHIPS	0.002330863	kg/TJ
2020	Cd	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005000000	kg/TJ
2020	Cd	1A2e	WOOD RESIDUE CHIPS	0.005000000	kg/TJ
2020	Cd	1A2f	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2020	Cd	1A2f	COAL (S=1.0%)	0.010632507	kg/TJ
2020	Cd	1A2f	COKE (S=1.0%)	0.013445758	kg/TJ
2020	Cd	1A2f	FOREST RESIDUE CHIPS	0.005000000	kg/TJ
2020	Cd	1A2f	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A2f	INDUSTRIAL WASTE	0.000269077	kg/TJ
2020	Cd	1A2f	OTHER FOSSIL SOLID	0.000010763	kg/TJ
2020	Cd	1A2f	OTHER HEAVY DISTILLATES	0.000300000	kg/TJ
2020	Cd	1A2f	OTHER WASTE	0.000026908	kg/TJ
2020	Cd	1A2f	PETROLEUM COKE	0.000115013	kg/TJ
2020	Cd	1A2f	RECOVERED FUEL (REF 1)	0.000174307	kg/TJ
2020	Cd	1A2f	RECOVERED WOOD	0.000500000	kg/TJ
2020	Cd	1A2f	RECYCLED AND WASTE OILS	0.000016868	kg/TJ
2020	Cd	1A2f	RUBBER WASTE	0.000026908	kg/TJ
2020	Cd	1A2f	SAWDUST AND CUTTER CHIPS	0.000310088	kg/TJ
2020	Cd	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A2gvii	LIQUID GAS	0.000217391	kg/TJ
2020	Cd	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Cd	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000500000	kg/TJ

2020	Cd	1A2gviii	BARK	0.002191449	kg/TJ
2020	Cd	1A2gviii	CHIPS FROM ROUNDWOOD	0.000807201	kg/TJ
2020	Cd	1A2gviii	CREOSOTED WOOD	0.000024964	kg/TJ
2020	Cd	1A2gviii	DEMOLITION WOOD	0.000107376	kg/TJ
2020	Cd	1A2gviii	FOREST RESIDUE CHIPS	0.002618943	kg/TJ
2020	Cd	1A2gviii	HAZARDOUS WASTE	0.000021625	kg/TJ
2020	Cd	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.000300000	kg/TJ
2020	Cd	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000286850	kg/TJ
2020	Cd	1A2gviii	MILLED PEAT	0.000025326	kg/TJ
2020	Cd	1A2gviii	MUNICIPAL WASTE - unsorted	0.000015435	kg/TJ
2020	Cd	1A2gviii	OTHER HEAVY DISTILLATES	0.000244669	kg/TJ
2020	Cd	1A2gviii	OTHER NON-FOSSIL SOLID	0.000537642	kg/TJ
2020	Cd	1A2gviii	OTHER WASTE	0.000027903	kg/TJ
2020	Cd	1A2gviii	OTHER WOOD RESIDUE	0.000433657	kg/TJ
2020	Cd	1A2gviii	PLASTIC WASTE	0.000035699	kg/TJ
2020	Cd	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000300000	kg/TJ
2020	Cd	1A2gviii	RECOVERED FUEL (REF 2)	0.005000000	kg/TJ
2020	Cd	1A2gviii	RECOVERED WOOD	0.000768288	kg/TJ
2020	Cd	1A2gviii	RECYCLED AND WASTE OILS	0.000000683	kg/TJ
2020	Cd	1A2gviii	SALT TREATED WOOD	0.000025098	kg/TJ
2020	Cd	1A2gviii	SAWDUST AND CUTTER CHIPS	0.003220758	kg/TJ
2020	Cd	1A2gviii	SOD PEAT	0.000507792	kg/TJ
2020	Cd	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001986848	kg/TJ
2020	Cd	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.004833077	kg/TJ
2020	Cd	1A2gviii	WOOD RESIDUE CHIPS	0.003031677	kg/TJ
2020	Cd	1A3bi	DIESEL OIL (S=0.001%)	0.000001168	kg/TJ
2020	Cd	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000004791	kg/TJ
2020	Cd	1A3bii	DIESEL OIL (S=0.001%)	0.000001168	kg/TJ
2020	Cd	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000004783	kg/TJ
2020	Cd	1A3biii	DIESEL OIL (S=0.001%)	0.000001168	kg/TJ
2020	Cd	1A3biv	DIESEL OIL (S=0.001%)	0.000001130	kg/TJ
2020	Cd	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000004783	kg/TJ
2020	Cd	1A3c	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000232189	kg/TJ
2020	Cd	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000493100	kg/TJ
2020	Cd	1A4ai	FOREST WOODFUEL	0.003000000	kg/TJ
2020	Cd	1A4ai	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A4ai	SOD PEAT	0.002800000	kg/TJ
2020	Cd	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Cd	1A4bi	COAL (S=1.0%)	0.009000000	kg/TJ
2020	Cd	1A4bi	FOREST WOODFUEL	0.003000000	kg/TJ
2020	Cd	1A4bi	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A4bi	SOD PEAT	0.002800000	kg/TJ
2020	Cd	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Cd	1A4ci	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2020	Cd	1A4ci	COAL (S=1.0%)	0.000200000	kg/TJ
2020	Cd	1A4ci	FOREST WOODFUEL	0.003000000	kg/TJ
2020	Cd	1A4ci	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A4ci	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2020	Cd	1A4ci	RECOVERED WOOD	0.000500000	kg/TJ
2020	Cd	1A4ci	SOD PEAT	0.002800000	kg/TJ
2020	Cd	1A4ci	WOOD RESIDUE CHIPS	0.005000000	kg/TJ
2020	Cd	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ

2020	Cd	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Cd	1A5a	FOREST WOODFUEL	0.005000000	kg/TJ
2020	Cd	1A5a	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2020	Cd	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000023555	kg/TJ
2020	Cd	1A5a	OTHER PETROLEUM PRODUCTS	0.000300000	kg/TJ

Hg Implied emission factors in Finnish air pollutant inventory for 2020

2020	Hg	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000404943	kg/TJ
2020	Hg	1A1a	ANIMAL-BASED FUELS	0.000236352	kg/TJ
2020	Hg	1A1a	BARK	0.000441634	kg/TJ
2020	Hg	1A1a	CHIPS FROM ROUNDWOOD	0.000388853	kg/TJ
2020	Hg	1A1a	COAL (S=1.0%)	0.000643467	kg/TJ
2020	Hg	1A1a	CREOSOTED WOOD	0.000493060	kg/TJ
2020	Hg	1A1a	DEINKING WASTE	0.000500000	kg/TJ
2020	Hg	1A1a	DEMOLITION WOOD	0.000138331	kg/TJ
2020	Hg	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000419241	kg/TJ
2020	Hg	1A1a	FOREST RESIDUE CHIPS	0.000441658	kg/TJ
2020	Hg	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000013815	kg/TJ
2020	Hg	1A1a	HEAVY FUEL OIL (S<1%)	0.000026402	kg/TJ
2020	Hg	1A1a	INDUSTRIAL WASTE	0.000455961	kg/TJ
2020	Hg	1A1a	MILLED PEAT	0.001179379	kg/TJ
2020	Hg	1A1a	MUNICIPAL WASTE - unsorted	0.000169268	kg/TJ
2020	Hg	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000500000	kg/TJ
2020	Hg	1A1a	OTHER FOSSIL SOLID	0.001378816	kg/TJ
2020	Hg	1A1a	OTHER HEAVY DISTILLATES	0.000030000	kg/TJ
2020	Hg	1A1a	OTHER NON-FOSSIL SOLID	0.000498269	kg/TJ
2020	Hg	1A1a	OTHER WASTE	0.000170094	kg/TJ
2020	Hg	1A1a	OTHER WOOD RESIDUE	0.000355133	kg/TJ
2020	Hg	1A1a	PAPER	0.000482484	kg/TJ
2020	Hg	1A1a	PLASTIC WASTE	0.000261651	kg/TJ
2020	Hg	1A1a	PLYWOOD RESIDUE	0.000291638	kg/TJ
2020	Hg	1A1a	RECOVERED FUEL (REF 1)	0.000500000	kg/TJ
2020	Hg	1A1a	RECOVERED FUEL (REF 2)	0.000121065	kg/TJ
2020	Hg	1A1a	RECOVERED FUEL (REF 3)	0.000330778	kg/TJ
2020	Hg	1A1a	RECOVERED WOOD	0.000299215	kg/TJ
2020	Hg	1A1a	RECYCLED AND WASTE OILS	0.000015909	kg/TJ
2020	Hg	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000339286	kg/TJ
2020	Hg	1A1a	SAWDUST AND CUTTER CHIPS	0.000411567	kg/TJ
2020	Hg	1A1a	SOD PEAT	0.002598691	kg/TJ
2020	Hg	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000724955	kg/TJ
2020	Hg	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000463205	kg/TJ
2020	Hg	1A1a	WOOD RESIDUE CHIPS	0.000438426	kg/TJ
2020	Hg	1A1b	COKE (S=1.0%)	0.003700000	kg/TJ
2020	Hg	1A1b	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A1b	PETROLEUM COKE	0.003700000	kg/TJ
2020	Hg	1A2a	COKE (S=1.0%)	0.000092858	kg/TJ
2020	Hg	1A2a	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A2a	OTHER FOSSIL SOLID	0.001400000	kg/TJ
2020	Hg	1A2a	WOOD RESIDUE CHIPS	0.000500000	kg/TJ
2020	Hg	1A2b	HEAVY FUEL OIL (S<1%)	0.000009247	kg/TJ
2020	Hg	1A2c	COAL (S=1.0%)	0.000950000	kg/TJ
2020	Hg	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000030000	kg/TJ
2020	Hg	1A2c	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A2c	OTHER FOSSIL LIQUID	0.000030000	kg/TJ
2020	Hg	1A2c	OTHER HEAVY DISTILLATES	0.000030000	kg/TJ
2020	Hg	1A2c	PETROLEUM COKE	0.003700000	kg/TJ
2020	Hg	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000500000	kg/TJ
2020	Hg	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000650516	kg/TJ
2020	Hg	1A2d	ANIMAL-BASED FUELS	0.000166191	kg/TJ
2020	Hg	1A2d	BARK	0.000517920	kg/TJ

2020	Hg	1A2d	BLACK LIQUOR	0.000547114	kg/TJ
2020	Hg	1A2d	CHIPS FROM ROUNDWOOD	0.000155899	kg/TJ
2020	Hg	1A2d	COAL (S=1.0%)	0.000382832	kg/TJ
2020	Hg	1A2d	CREOSOTED WOOD	0.000244913	kg/TJ
2020	Hg	1A2d	DEMOLITION WOOD	0.000244913	kg/TJ
2020	Hg	1A2d	FOREST RESIDUE CHIPS	0.000488043	kg/TJ
2020	Hg	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000027548	kg/TJ
2020	Hg	1A2d	HEAVY FUEL OIL (S<1%)	0.000036498	kg/TJ
2020	Hg	1A2d	INDUSTRIAL WASTE	0.000380346	kg/TJ
2020	Hg	1A2d	METHANOL	0.000044665	kg/TJ
2020	Hg	1A2d	MILLED PEAT	0.001132128	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY		
2020	Hg	1A2d	OTHER FOSSIL SOLID	0.001159420	kg/TJ
2020	Hg	1A2d	OTHER HEAVY DISTILLATES	0.001400000	kg/TJ
2020	Hg	1A2d	OTHER WOOD RESIDUE	0.000030000	kg/TJ
2020	Hg	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000450000	kg/TJ
2020	Hg	1A2d	PAPER	0.001209198	kg/TJ
2020	Hg	1A2d	PAPER	0.000070816	kg/TJ
2020	Hg	1A2d	PLASTIC WASTE	0.000129897	kg/TJ
2020	Hg	1A2d	RECOVERED FUEL (REF 1)	0.000337903	kg/TJ
2020	Hg	1A2d	RECOVERED FUEL (REF 2)	0.000244913	kg/TJ
2020	Hg	1A2d	RECOVERED WOOD	0.000403583	kg/TJ
2020	Hg	1A2d	RECYCLED AND WASTE OILS	0.000009971	kg/TJ
2020	Hg	1A2d	SAWDUST AND CUTTER CHIPS	0.000425146	kg/TJ
2020	Hg	1A2d	SULPHITE LIQUOR	0.000002979	kg/TJ
2020	Hg	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001332743	kg/TJ
2020	Hg	1A2d	WOOD RESIDUE CHIPS	0.000183267	kg/TJ
2020	Hg	1A2e	ANIMAL-BASED FUELS	0.000500000	kg/TJ
2020	Hg	1A2e	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2020	Hg	1A2e	COAL (S=1.0%)	0.001397248	kg/TJ
2020	Hg	1A2e	COKE (S=1.0%)	0.003700000	kg/TJ
2020	Hg	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000030000	kg/TJ
2020	Hg	1A2e	HEAVY FUEL OIL (S<1%)	0.000032053	kg/TJ
2020	Hg	1A2e	MILLED PEAT	0.002334938	kg/TJ
2020	Hg	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2020	Hg	1A2e	PEAT PELLETS AND BRIQUETTES	0.001300000	kg/TJ
2020	Hg	1A2e	RECOVERED WOOD	0.000500000	kg/TJ
2020	Hg	1A2e	SAWDUST AND CUTTER CHIPS	0.000500000	kg/TJ
2020	Hg	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000500000	kg/TJ
2020	Hg	1A2e	WOOD RESIDUE CHIPS	0.000500000	kg/TJ
2020	Hg	1A2f	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2020	Hg	1A2f	COAL (S=1.0%)	0.004131408	kg/TJ
2020	Hg	1A2f	COKE (S=1.0%)	0.007543166	kg/TJ
2020	Hg	1A2f	FOREST RESIDUE CHIPS	0.000500000	kg/TJ
2020	Hg	1A2f	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A2f	INDUSTRIAL WASTE	0.002442181	kg/TJ
2020	Hg	1A2f	OTHER FOSSIL SOLID	0.006838108	kg/TJ
2020	Hg	1A2f	OTHER HEAVY DISTILLATES	0.000030000	kg/TJ
2020	Hg	1A2f	OTHER WASTE	0.002442181	kg/TJ
2020	Hg	1A2f	PETROLEUM COKE	0.008351625	kg/TJ
2020	Hg	1A2f	RECOVERED FUEL (REF 1)	0.001974326	kg/TJ
2020	Hg	1A2f	RECOVERED WOOD	0.000500000	kg/TJ
2020	Hg	1A2f	RECYCLED AND WASTE OILS	0.000035801	kg/TJ
2020	Hg	1A2f	RUBBER WASTE	0.002442181	kg/TJ
2020	Hg	1A2f	SAWDUST AND CUTTER CHIPS	0.000432141	kg/TJ
2020	Hg	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000330666	kg/TJ
2020	Hg	1A2gviii	BARK	0.000483639	kg/TJ

2020	Hg	1A2gviii	CHIPS FROM ROUNDWOOD	0.000507729	kg/TJ
2020	Hg	1A2gviii	CREOSOTED WOOD	0.000224672	kg/TJ
2020	Hg	1A2gviii	DEMOLITION WOOD	0.000739520	kg/TJ
2020	Hg	1A2gviii	FOREST RESIDUE CHIPS	0.000427904	kg/TJ
2020	Hg	1A2gviii	HAZARDOUS WASTE	0.001448185	kg/TJ
2020	Hg	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.000030000	kg/TJ
2020	Hg	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000029828	kg/TJ
2020	Hg	1A2gviii	MILLED PEAT	0.001184205	kg/TJ
2020	Hg	1A2gviii	MUNICIPAL WASTE - unsorted	0.001365186	kg/TJ
2020	Hg	1A2gviii	OTHER HEAVY DISTILLATES	0.000029815	kg/TJ
2020	Hg	1A2gviii	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2020	Hg	1A2gviii	OTHER WASTE	0.001969073	kg/TJ
2020	Hg	1A2gviii	OTHER WOOD RESIDUE	0.000461228	kg/TJ
2020	Hg	1A2gviii	PLASTIC WASTE	0.002777642	kg/TJ
2020	Hg	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000187617	kg/TJ
2020	Hg	1A2gviii	RECOVERED FUEL (REF 2)	0.000500000	kg/TJ
2020	Hg	1A2gviii	RECOVERED WOOD	0.000400661	kg/TJ
2020	Hg	1A2gviii	RECYCLED AND WASTE OILS	0.000025372	kg/TJ
2020	Hg	1A2gviii	SALT TREATED WOOD	0.000304272	kg/TJ
2020	Hg	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000466197	kg/TJ
2020	Hg	1A2gviii	SOD PEAT	0.001802655	kg/TJ
2020	Hg	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000474115	kg/TJ
2020	Hg	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000493719	kg/TJ
2020	Hg	1A2gviii	WOOD RESIDUE CHIPS	0.000483964	kg/TJ
2020	Hg	1A3bi	DIESEL OIL (S=001%)	0.000123801	kg/TJ
2020	Hg	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000208419	kg/TJ
2020	Hg	1A3bii	DIESEL OIL (S=001%)	0.000123801	kg/TJ
2020	Hg	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000208043	kg/TJ
2020	Hg	1A3biii	DIESEL OIL (S=001%)	0.000123801	kg/TJ
2020	Hg	1A3biv	DIESEL OIL (S=001%)	0.000119786	kg/TJ
2020	Hg	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000208043	kg/TJ
2020	Hg	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000696567	kg/TJ
2020	Hg	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000493100	kg/TJ
2020	Hg	1A4ai	FOREST WOODFUEL	0.000500000	kg/TJ
2020	Hg	1A4ai	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A4ai	SOD PEAT	0.002600000	kg/TJ
2020	Hg	1A4bi	COAL (S=1.0%)	0.001850000	kg/TJ
2020	Hg	1A4bi	FOREST WOODFUEL	0.000500000	kg/TJ
2020	Hg	1A4bi	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A4bi	SOD PEAT	0.002600000	kg/TJ
2020	Hg	1A4ci	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2020	Hg	1A4ci	COAL (S=1.0%)	0.001400000	kg/TJ
2020	Hg	1A4ci	FOREST WOODFUEL	0.000500000	kg/TJ
2020	Hg	1A4ci	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A4ci	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2020	Hg	1A4ci	RECOVERED WOOD	0.000500000	kg/TJ
2020	Hg	1A4ci	SOD PEAT	0.002600000	kg/TJ
2020	Hg	1A4ci	WOOD RESIDUE CHIPS	0.000500000	kg/TJ
2020	Hg	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000694444	kg/TJ
2020	Hg	1A5a	FOREST WOODFUEL	0.000500000	kg/TJ
2020	Hg	1A5a	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2020	Hg	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000062400	kg/TJ
2020	Hg	1A5a	OTHER PETROLEUM PRODUCTS	0.000030000	kg/TJ

As Implied emission factors in Finnish air pollutant inventory for 2020

2020	As	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000095635	kg/TJ
2020	As	1A1a	ANIMAL-BASED FUELS	0.000108126	kg/TJ
2020	As	1A1a	BARK	0.000192134	kg/TJ
2020	As	1A1a	CHIPS FROM ROUNDWOOD	0.000127633	kg/TJ
2020	As	1A1a	COAL (S=1.0%)	0.001043378	kg/TJ
2020	As	1A1a	CREOSOTED WOOD	0.000100563	kg/TJ
2020	As	1A1a	DEINKING WASTE	0.001000000	kg/TJ
2020	As	1A1a	DEMOLITION WOOD	0.000008487	kg/TJ
2020	As	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000083931	kg/TJ
2020	As	1A1a	FOREST RESIDUE CHIPS	0.000293012	kg/TJ
2020	As	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000924788	kg/TJ
2020	As	1A1a	HEAVY FUEL OIL (S<1%)	0.001061298	kg/TJ
2020	As	1A1a	INDUSTRIAL WASTE	0.000048128	kg/TJ
2020	As	1A1a	MILLED PEAT	0.007644844	kg/TJ
2020	As	1A1a	MUNICIPAL WASTE - unsorted	0.000335190	kg/TJ
2020	As	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000100000	kg/TJ
2020	As	1A1a	OTHER FOSSIL SOLID	0.007655336	kg/TJ
2020	As	1A1a	OTHER HEAVY DISTILLATES	0.002000000	kg/TJ
2020	As	1A1a	OTHER NON-FOSSIL SOLID	0.000104541	kg/TJ
2020	As	1A1a	OTHER WASTE	0.000022997	kg/TJ
2020	As	1A1a	OTHER WOOD RESIDUE	0.000239704	kg/TJ
2020	As	1A1a	PAPER	0.000066257	kg/TJ
2020	As	1A1a	PLASTIC WASTE	0.000102685	kg/TJ
2020	As	1A1a	PLYWOOD RESIDUE	0.000056900	kg/TJ
2020	As	1A1a	RECOVERED FUEL (REF 1)	0.001000000	kg/TJ
2020	As	1A1a	RECOVERED FUEL (REF 2)	0.000123678	kg/TJ
2020	As	1A1a	RECOVERED FUEL (REF 3)	0.000010337	kg/TJ
2020	As	1A1a	RECOVERED WOOD	0.000195651	kg/TJ
2020	As	1A1a	RECYCLED AND WASTE OILS	0.001190480	kg/TJ
2020	As	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000012821	kg/TJ
2020	As	1A1a	SAWDUST AND CUTTER CHIPS	0.000263819	kg/TJ
2020	As	1A1a	SOD PEAT	0.079394837	kg/TJ
2020	As	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000249745	kg/TJ
2020	As	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000353685	kg/TJ
2020	As	1A1a	WOOD RESIDUE CHIPS	0.000373430	kg/TJ
2020	As	1A1b	COKE (S=1.0%)	0.130000000	kg/TJ
2020	As	1A1b	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2020	As	1A1b	PETROLEUM COKE	0.130000000	kg/TJ
2020	As	1A2a	HEAVY FUEL OIL (S<1%)	0.001986518	kg/TJ
2020	As	1A2a	WOOD RESIDUE CHIPS	0.001000000	kg/TJ
2020	As	1A2b	HEAVY FUEL OIL (S<1%)	0.000202602	kg/TJ
2020	As	1A2c	COAL (S=1.0%)	0.001000000	kg/TJ
2020	As	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.002000000	kg/TJ
2020	As	1A2c	HEAVY FUEL OIL (S<1%)	0.001991332	kg/TJ
2020	As	1A2c	OTHER FOSSIL LIQUID	0.002000000	kg/TJ
2020	As	1A2c	OTHER HEAVY DISTILLATES	0.002000000	kg/TJ
2020	As	1A2c	PETROLEUM COKE	0.130000000	kg/TJ
2020	As	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001000000	kg/TJ
2020	As	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000248708	kg/TJ
2020	As	1A2d	ANIMAL-BASED FUELS	0.000068533	kg/TJ
2020	As	1A2d	BARK	0.000149830	kg/TJ
2020	As	1A2d	BLACK LIQUOR	0.000894760	kg/TJ
2020	As	1A2d	CHIPS FROM ROUNDWOOD	0.000175353	kg/TJ

2020	As	1A2d	COAL (S=1.0%)	0.001799461	kg/TJ
2020	As	1A2d	CREOSOTED WOOD	0.000534557	kg/TJ
2020	As	1A2d	DEMOLITION WOOD	0.000534557	kg/TJ
2020	As	1A2d	FOREST RESIDUE CHIPS	0.000154715	kg/TJ
2020	As	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000521157	kg/TJ
2020	As	1A2d	HEAVY FUEL OIL (S<1%)	0.000852090	kg/TJ
2020	As	1A2d	INDUSTRIAL WASTE	0.000277279	kg/TJ
2020	As	1A2d	METHANOL	0.000008910	kg/TJ
2020	As	1A2d	MILLED PEAT	0.000395696	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	As	1A2d	TRY	0.001497585	kg/TJ
2020	As	1A2d	OTHER FOSSIL SOLID	0.007800000	kg/TJ
2020	As	1A2d	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	As	1A2d	OTHER WOOD RESIDUE	0.000130000	kg/TJ
2020	As	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000060188	kg/TJ
2020	As	1A2d	PAPER	0.000129506	kg/TJ
2020	As	1A2d	PLASTIC WASTE	0.000012908	kg/TJ
2020	As	1A2d	RECOVERED FUEL (REF 1)	0.001071708	kg/TJ
2020	As	1A2d	RECOVERED FUEL (REF 2)	0.000534557	kg/TJ
2020	As	1A2d	RECOVERED WOOD	0.000076320	kg/TJ
2020	As	1A2d	RECYCLED AND WASTE OILS	0.000685329	kg/TJ
2020	As	1A2d	SAWDUST AND CUTTER CHIPS	0.000570587	kg/TJ
2020	As	1A2d	SULPHITE LIQUOR	0.000391914	kg/TJ
2020	As	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000151225	kg/TJ
2020	As	1A2d	WOOD RESIDUE CHIPS	0.000692831	kg/TJ
2020	As	1A2e	ANIMAL-BASED FUELS	0.001000000	kg/TJ
2020	As	1A2e	CHIPS FROM ROUNDWOOD	0.000100000	kg/TJ
2020	As	1A2e	COAL (S=1.0%)	0.007819214	kg/TJ
2020	As	1A2e	COKE (S=1.0%)	0.130000000	kg/TJ
2020	As	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.002000000	kg/TJ
2020	As	1A2e	HEAVY FUEL OIL (S<1%)	0.001953390	kg/TJ
2020	As	1A2e	MILLED PEAT	0.064586544	kg/TJ
2020	As	1A2e	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2020	As	1A2e	PEAT PELLETS AND BRIQUETTES	0.000500000	kg/TJ
2020	As	1A2e	RECOVERED WOOD	0.000100000	kg/TJ
2020	As	1A2e	SAWDUST AND CUTTER CHIPS	0.000466173	kg/TJ
2020	As	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001000000	kg/TJ
2020	As	1A2e	WOOD RESIDUE CHIPS	0.001000000	kg/TJ
2020	As	1A2f	CHIPS FROM ROUNDWOOD	0.001000000	kg/TJ
2020	As	1A2f	COAL (S=1.0%)	0.076705846	kg/TJ
2020	As	1A2f	COKE (S=1.0%)	0.096249365	kg/TJ
2020	As	1A2f	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2020	As	1A2f	HEAVY FUEL OIL (S<1%)	0.000809792	kg/TJ
2020	As	1A2f	INDUSTRIAL WASTE	0.000029108	kg/TJ
2020	As	1A2f	OTHER FOSSIL SOLID	0.000227043	kg/TJ
2020	As	1A2f	OTHER HEAVY DISTILLATES	0.002000000	kg/TJ
2020	As	1A2f	OTHER WASTE	0.000002911	kg/TJ
2020	As	1A2f	PETROLEUM COKE	0.000248621	kg/TJ
2020	As	1A2f	RECOVERED FUEL (REF 1)	0.000014153	kg/TJ
2020	As	1A2f	RECOVERED WOOD	0.000100000	kg/TJ
2020	As	1A2f	RECYCLED AND WASTE OILS	0.000045669	kg/TJ
2020	As	1A2f	RUBBER WASTE	0.000002911	kg/TJ
2020	As	1A2f	SAWDUST AND CUTTER CHIPS	0.000058238	kg/TJ
2020	As	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000100000	kg/TJ
2020	As	1A2gviii	BARK	0.000432581	kg/TJ
2020	As	1A2gviii	CHIPS FROM ROUNDWOOD	0.000379544	kg/TJ
2020	As	1A2gviii	CREOSOTED WOOD	0.000324526	kg/TJ

2020	As	1A2gviii	DEMOLITION WOOD	0.000283258	kg/TJ
2020	As	1A2gviii	FOREST RESIDUE CHIPS	0.000501386	kg/TJ
2020	As	1A2gviii	HAZARDOUS WASTE	0.000274430	kg/TJ
2020	As	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.002000000	kg/TJ
2020	As	1A2gviii	HEAVY FUEL OIL (S<1%)	0.001844313	kg/TJ
2020	As	1A2gviii	MILLED PEAT	0.036119190	kg/TJ
2020	As	1A2gviii	MUNICIPAL WASTE - unsorted	0.000209344	kg/TJ
2020	As	1A2gviii	OTHER HEAVY DISTILLATES	0.001451058	kg/TJ
2020	As	1A2gviii	OTHER NON-FOSSIL SOLID	0.000105019	kg/TJ
2020	As	1A2gviii	OTHER WASTE	0.000315285	kg/TJ
2020	As	1A2gviii	OTHER WOOD RESIDUE	0.000078968	kg/TJ
2020	As	1A2gviii	PLASTIC WASTE	0.000300977	kg/TJ
2020	As	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.002000000	kg/TJ
2020	As	1A2gviii	RECOVERED FUEL (REF 2)	0.001000000	kg/TJ
2020	As	1A2gviii	RECOVERED WOOD	0.000153658	kg/TJ
2020	As	1A2gviii	RECYCLED AND WASTE OILS	0.000257158	kg/TJ
2020	As	1A2gviii	SALT TREATED WOOD	0.000324104	kg/TJ
2020	As	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000640357	kg/TJ
2020	As	1A2gviii	SOD PEAT	0.015053069	kg/TJ
2020	As	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000380951	kg/TJ
2020	As	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000966615	kg/TJ
2020	As	1A2gviii	WOOD RESIDUE CHIPS	0.000602561	kg/TJ
2020	As	1A3bi	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	As	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000007187	kg/TJ
2020	As	1A3bii	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	As	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000007174	kg/TJ
2020	As	1A3biii	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	As	1A3biv	DIESEL OIL (S=001%)	0.000002260	kg/TJ
2020	As	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000007174	kg/TJ
2020	As	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000928755	kg/TJ
2020	As	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.001232751	kg/TJ
2020	As	1A4ai	FOREST WOODFUEL	0.001000000	kg/TJ
2020	As	1A4ai	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2020	As	1A4ai	SOD PEAT	0.081000000	kg/TJ
2020	As	1A4bi	COAL (S=1.0%)	0.065000000	kg/TJ
2020	As	1A4bi	FOREST WOODFUEL	0.001000000	kg/TJ
2020	As	1A4bi	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2020	As	1A4bi	SOD PEAT	0.081000000	kg/TJ
2020	As	1A4ci	CHIPS FROM ROUNDWOOD	0.000100000	kg/TJ
2020	As	1A4ci	COAL (S=1.0%)	0.007800000	kg/TJ
2020	As	1A4ci	FOREST WOODFUEL	0.001000000	kg/TJ
2020	As	1A4ci	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2020	As	1A4ci	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2020	As	1A4ci	RECOVERED WOOD	0.000100000	kg/TJ
2020	As	1A4ci	SOD PEAT	0.081000000	kg/TJ
2020	As	1A4ci	WOOD RESIDUE CHIPS	0.001000000	kg/TJ
2020	As	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000925926	kg/TJ
2020	As	1A5a	FOREST WOODFUEL	0.001000000	kg/TJ
2020	As	1A5a	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2020	As	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000083200	kg/TJ
2020	As	1A5a	OTHER PETROLEUM PRODUCTS	0.002000000	kg/TJ

Cr Implied emission factors in Finnish air pollutant inventory for 2020

2020	Cr	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.001303487	kg/TJ
2020	Cr	1A1a	ANIMAL-BASED FUELS	0.002795514	kg/TJ
2020	Cr	1A1a	BARK	0.004565619	kg/TJ
2020	Cr	1A1a	CHIPS FROM ROUNDWOOD	0.003658824	kg/TJ
2020	Cr	1A1a	COAL (S=1.0%)	0.001495831	kg/TJ
2020	Cr	1A1a	CREOSOTED WOOD	0.001965769	kg/TJ
2020	Cr	1A1a	DEINKING WASTE	0.035000000	kg/TJ
2020	Cr	1A1a	DEMOLITION WOOD	0.000442019	kg/TJ
2020	Cr	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.001593684	kg/TJ
2020	Cr	1A1a	FOREST RESIDUE CHIPS	0.010855545	kg/TJ
2020	Cr	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000350717	kg/TJ
2020	Cr	1A1a	HEAVY FUEL OIL (S<1%)	0.000540819	kg/TJ
2020	Cr	1A1a	INDUSTRIAL WASTE	0.000862543	kg/TJ
2020	Cr	1A1a	MILLED PEAT	0.007135015	kg/TJ
2020	Cr	1A1a	MUNICIPAL WASTE - unsorted	0.011898908	kg/TJ
2020	Cr	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002000000	kg/TJ
2020	Cr	1A1a	OTHER FOSSIL SOLID	0.004966104	kg/TJ
2020	Cr	1A1a	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	Cr	1A1a	OTHER NON-FOSSIL SOLID	0.002191437	kg/TJ
2020	Cr	1A1a	OTHER WASTE	0.000136135	kg/TJ
2020	Cr	1A1a	OTHER WOOD RESIDUE	0.004850096	kg/TJ
2020	Cr	1A1a	PAPER	0.000225027	kg/TJ
2020	Cr	1A1a	PLASTIC WASTE	0.003456211	kg/TJ
2020	Cr	1A1a	PLYWOOD RESIDUE	0.000863170	kg/TJ
2020	Cr	1A1a	RECOVERED FUEL (REF 1)	0.035000000	kg/TJ
2020	Cr	1A1a	RECOVERED FUEL (REF 2)	0.000620359	kg/TJ
2020	Cr	1A1a	RECOVERED FUEL (REF 3)	0.000589199	kg/TJ
2020	Cr	1A1a	RECOVERED WOOD	0.001629603	kg/TJ
2020	Cr	1A1a	RECYCLED AND WASTE OILS	0.000210405	kg/TJ
2020	Cr	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000600000	kg/TJ
2020	Cr	1A1a	SAWDUST AND CUTTER CHIPS	0.005376227	kg/TJ
2020	Cr	1A1a	SOD PEAT	0.137230339	kg/TJ
2020	Cr	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005573700	kg/TJ
2020	Cr	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.004502748	kg/TJ
2020	Cr	1A1a	WOOD RESIDUE CHIPS	0.013247384	kg/TJ
2020	Cr	1A1b	COKE (S=1.0%)	1.000000000	kg/TJ
2020	Cr	1A1b	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A1b	PETROLEUM COKE	1.000000000	kg/TJ
2020	Cr	1A2a	HEAVY FUEL OIL (S<1%)	0.000993259	kg/TJ
2020	Cr	1A2a	WOOD RESIDUE CHIPS	0.035000000	kg/TJ
2020	Cr	1A2b	COAL (S=1.0%)	1.000000000	kg/TJ
2020	Cr	1A2b	COKE (S=1.0%)	1.000000000	kg/TJ
2020	Cr	1A2b	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A2b	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	Cr	1A2c	COAL (S=1.0%)	0.001500000	kg/TJ
2020	Cr	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.001000000	kg/TJ
2020	Cr	1A2c	HEAVY FUEL OIL (S<1%)	0.000995666	kg/TJ
2020	Cr	1A2c	OTHER FOSSIL LIQUID	0.001000000	kg/TJ
2020	Cr	1A2c	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	Cr	1A2c	PETROLEUM COKE	1.000000000	kg/TJ
2020	Cr	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.035000000	kg/TJ
2020	Cr	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000891186	kg/TJ
2020	Cr	1A2d	ANIMAL-BASED FUELS	0.000296312	kg/TJ

2020	Cr	1A2d	BARK	0.002948827	kg/TJ
2020	Cr	1A2d	BLACK LIQUOR	0.000562951	kg/TJ
2020	Cr	1A2d	CHIPS FROM ROUNDWOOD	0.002853120	kg/TJ
2020	Cr	1A2d	COAL (S=1.0%)	0.000217831	kg/TJ
2020	Cr	1A2d	CREOSOTED WOOD	0.000987708	kg/TJ
2020	Cr	1A2d	DEMOLITION WOOD	0.000987708	kg/TJ
2020	Cr	1A2d	FOREST RESIDUE CHIPS	0.000693984	kg/TJ
2020	Cr	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000315695	kg/TJ
2020	Cr	1A2d	HEAVY FUEL OIL (S<1%)	0.000566337	kg/TJ
2020	Cr	1A2d	INDUSTRIAL WASTE	0.008598840	kg/TJ
2020	Cr	1A2d	METHANOL	0.000178790	kg/TJ
2020	Cr	1A2d	MILLED PEAT	0.000267110	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Cr	1A2d	TRY	0.000289855	kg/TJ
2020	Cr	1A2d	OTHER FOSSIL SOLID	0.005000000	kg/TJ
2020	Cr	1A2d	OTHER HEAVY DISTILLATES	0.000500000	kg/TJ
2020	Cr	1A2d	OTHER WOOD RESIDUE	0.004500000	kg/TJ
2020	Cr	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000389287	kg/TJ
2020	Cr	1A2d	PAPER	0.000072215	kg/TJ
2020	Cr	1A2d	PLASTIC WASTE	0.000040968	kg/TJ
2020	Cr	1A2d	RECOVERED FUEL (REF 1)	0.022236045	kg/TJ
2020	Cr	1A2d	RECOVERED FUEL (REF 2)	0.000987708	kg/TJ
2020	Cr	1A2d	RECOVERED WOOD	0.000245930	kg/TJ
2020	Cr	1A2d	RECYCLED AND WASTE OILS	0.000074078	kg/TJ
2020	Cr	1A2d	SAWDUST AND CUTTER CHIPS	0.014692986	kg/TJ
2020	Cr	1A2d	SULPHITE LIQUOR	0.001953681	kg/TJ
2020	Cr	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003805726	kg/TJ
2020	Cr	1A2d	WOOD RESIDUE CHIPS	0.001662350	kg/TJ
2020	Cr	1A2e	ANIMAL-BASED FUELS	0.035000000	kg/TJ
2020	Cr	1A2e	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2020	Cr	1A2e	COAL (S=1.0%)	0.004997848	kg/TJ
2020	Cr	1A2e	COKE (S=1.0%)	1.000000000	kg/TJ
2020	Cr	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.001000000	kg/TJ
2020	Cr	1A2e	HEAVY FUEL OIL (S<1%)	0.001127986	kg/TJ
2020	Cr	1A2e	MILLED PEAT	0.111617974	kg/TJ
2020	Cr	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2020	Cr	1A2e	PEAT PELLETS AND BRIQUETTES	0.000800000	kg/TJ
2020	Cr	1A2e	RECOVERED WOOD	0.002000000	kg/TJ
2020	Cr	1A2e	SAWDUST AND CUTTER CHIPS	0.015426331	kg/TJ
2020	Cr	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.035000000	kg/TJ
2020	Cr	1A2e	WOOD RESIDUE CHIPS	0.035000000	kg/TJ
2020	Cr	1A2f	CHIPS FROM ROUNDWOOD	0.035000000	kg/TJ
2020	Cr	1A2f	COAL (S=1.0%)	0.602502221	kg/TJ
2020	Cr	1A2f	COKE (S=1.0%)	0.736033913	kg/TJ
2020	Cr	1A2f	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2020	Cr	1A2f	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A2f	INDUSTRIAL WASTE	0.000449965	kg/TJ
2020	Cr	1A2f	OTHER FOSSIL SOLID	0.000064281	kg/TJ
2020	Cr	1A2f	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	Cr	1A2f	OTHER WASTE	0.000025712	kg/TJ
2020	Cr	1A2f	PETROLEUM COKE	0.002368186	kg/TJ
2020	Cr	1A2f	RECOVERED FUEL (REF 1)	0.000349633	kg/TJ
2020	Cr	1A2f	RECOVERED WOOD	0.002000000	kg/TJ
2020	Cr	1A2f	RECYCLED AND WASTE OILS	0.005555128	kg/TJ
2020	Cr	1A2f	RUBBER WASTE	0.000025712	kg/TJ
2020	Cr	1A2f	SAWDUST AND CUTTER CHIPS	0.024824128	kg/TJ
2020	Cr	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ

2020	Cr	1A2gvii	LIQUID GAS	0.001086957	kg/TJ
2020	Cr	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.001195650	kg/TJ
2020	Cr	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.002000000	kg/TJ
2020	Cr	1A2gviii	BARK	0.014369410	kg/TJ
2020	Cr	1A2gviii	CHIPS FROM ROUNDWOOD	0.005071234	kg/TJ
2020	Cr	1A2gviii	CREOSOTED WOOD	0.000740585	kg/TJ
2020	Cr	1A2gviii	DEMOLITION WOOD	0.000968027	kg/TJ
2020	Cr	1A2gviii	FOREST RESIDUE CHIPS	0.017496861	kg/TJ
2020	Cr	1A2gviii	HAZARDOUS WASTE	0.000371268	kg/TJ
2020	Cr	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.001000000	kg/TJ
2020	Cr	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000952780	kg/TJ
2020	Cr	1A2gviii	MILLED PEAT	0.001067078	kg/TJ
2020	Cr	1A2gviii	MUNICIPAL WASTE - unsorted	0.000396774	kg/TJ
2020	Cr	1A2gviii	OTHER HEAVY DISTILLATES	0.000727174	kg/TJ
2020	Cr	1A2gviii	OTHER NON-FOSSIL SOLID	0.002175662	kg/TJ
2020	Cr	1A2gviii	OTHER WASTE	0.000783503	kg/TJ
2020	Cr	1A2gviii	OTHER WOOD RESIDUE	0.001662254	kg/TJ
2020	Cr	1A2gviii	PLASTIC WASTE	0.000798875	kg/TJ
2020	Cr	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000328330	kg/TJ
2020	Cr	1A2gviii	RECOVERED FUEL (REF 2)	0.035000000	kg/TJ
2020	Cr	1A2gviii	RECOVERED WOOD	0.003967448	kg/TJ
2020	Cr	1A2gviii	RECYCLED AND WASTE OILS	0.000001973	kg/TJ
2020	Cr	1A2gviii	SALT TREATED WOOD	0.000742544	kg/TJ
2020	Cr	1A2gviii	SAWDUST AND CUTTER CHIPS	0.021800442	kg/TJ
2020	Cr	1A2gviii	SOD PEAT	0.025612629	kg/TJ
2020	Cr	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012553464	kg/TJ
2020	Cr	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.033775895	kg/TJ
2020	Cr	1A2gviii	WOOD RESIDUE CHIPS	0.020601419	kg/TJ
2020	Cr	1A3bi	DIESEL OIL (S=001%)	0.000198549	kg/TJ
2020	Cr	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000150924	kg/TJ
2020	Cr	1A3bii	DIESEL OIL (S=001%)	0.000198549	kg/TJ
2020	Cr	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000150652	kg/TJ
2020	Cr	1A3biii	DIESEL OIL (S=001%)	0.000198549	kg/TJ
2020	Cr	1A3biv	DIESEL OIL (S=001%)	0.000192110	kg/TJ
2020	Cr	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000150652	kg/TJ
2020	Cr	1A3c	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ
2020	Cr	1A3dii	GASOIL (FOR NON-ROAD USE)	0.001160944	kg/TJ
2020	Cr	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.017751614	kg/TJ
2020	Cr	1A4ai	FOREST WOODFUEL	0.035000000	kg/TJ
2020	Cr	1A4ai	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A4ai	SOD PEAT	0.140000000	kg/TJ
2020	Cr	1A4aii	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ
2020	Cr	1A4aii	MOTOR GASOLINE (S=0.001%)	0.001195650	kg/TJ
2020	Cr	1A4bi	COAL (S=1.0%)	0.500000000	kg/TJ
2020	Cr	1A4bi	FOREST WOODFUEL	0.035000000	kg/TJ
2020	Cr	1A4bi	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A4bi	SOD PEAT	0.140000000	kg/TJ
2020	Cr	1A4bii	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ
2020	Cr	1A4bii	MOTOR GASOLINE (S=0.001%)	0.001195650	kg/TJ
2020	Cr	1A4ci	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2020	Cr	1A4ci	COAL (S=1.0%)	0.005000000	kg/TJ
2020	Cr	1A4ci	FOREST WOODFUEL	0.035000000	kg/TJ
2020	Cr	1A4ci	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A4ci	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2020	Cr	1A4ci	RECOVERED WOOD	0.002000000	kg/TJ
2020	Cr	1A4ci	SOD PEAT	0.140000000	kg/TJ

2020	Cr	1A4ci	WOOD RESIDUE CHIPS	0.035000000	kg/TJ
2020	Cr	1A4cii	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ
2020	Cr	1A4cii	MOTOR GASOLINE (S=0.001%)	0.001195650	kg/TJ
2020	Cr	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.001157407	kg/TJ
2020	Cr	1A5a	FOREST WOODFUEL	0.035000000	kg/TJ
2020	Cr	1A5a	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2020	Cr	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000117773	kg/TJ
2020	Cr	1A5a	OTHER PETROLEUM PRODUCTS	0.001000000	kg/TJ

Cu Implied emission factors in Finnish air pollutant inventory for 2020

2020	Cu	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.003167450	kg/TJ
2020	Cu	1A1a	ANIMAL-BASED FUELS	0.000181187	kg/TJ
2020	Cu	1A1a	BARK	0.007784145	kg/TJ
2020	Cu	1A1a	CHIPS FROM ROUNDWOOD	0.006242041	kg/TJ
2020	Cu	1A1a	COAL (S=1.0%)	0.001598310	kg/TJ
2020	Cu	1A1a	CREOSOTED WOOD	0.004906811	kg/TJ
2020	Cu	1A1a	DEINKING WASTE	0.051000000	kg/TJ
2020	Cu	1A1a	DEMOLITION WOOD	0.001452920	kg/TJ
2020	Cu	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.003959600	kg/TJ
2020	Cu	1A1a	FOREST RESIDUE CHIPS	0.015226570	kg/TJ
2020	Cu	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000630578	kg/TJ
2020	Cu	1A1a	HEAVY FUEL OIL (S<1%)	0.001274703	kg/TJ
2020	Cu	1A1a	INDUSTRIAL WASTE	0.001742513	kg/TJ
2020	Cu	1A1a	MILLED PEAT	0.011977984	kg/TJ
2020	Cu	1A1a	MUNICIPAL WASTE - unsorted	0.018275545	kg/TJ
2020	Cu	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.005000000	kg/TJ
2020	Cu	1A1a	OTHER FOSSIL SOLID	0.003986618	kg/TJ
2020	Cu	1A1a	OTHER HEAVY DISTILLATES	0.002500000	kg/TJ
2020	Cu	1A1a	OTHER NON-FOSSIL SOLID	0.005244844	kg/TJ
2020	Cu	1A1a	OTHER WASTE	0.000313331	kg/TJ
2020	Cu	1A1a	OTHER WOOD RESIDUE	0.009352943	kg/TJ
2020	Cu	1A1a	PAPER	0.000192557	kg/TJ
2020	Cu	1A1a	PLASTIC WASTE	0.000193907	kg/TJ
2020	Cu	1A1a	PLYWOOD RESIDUE	0.002241914	kg/TJ
2020	Cu	1A1a	RECOVERED FUEL (REF 1)	0.051000000	kg/TJ
2020	Cu	1A1a	RECOVERED FUEL (REF 2)	0.000867350	kg/TJ
2020	Cu	1A1a	RECOVERED FUEL (REF 3)	0.002201744	kg/TJ
2020	Cu	1A1a	RECOVERED WOOD	0.002361585	kg/TJ
2020	Cu	1A1a	RECYCLED AND WASTE OILS	0.000369299	kg/TJ
2020	Cu	1A1a	REFUSE-DERIVED FUEL (RDF)	0.002250000	kg/TJ
2020	Cu	1A1a	SAWDUST AND CUTTER CHIPS	0.008451062	kg/TJ
2020	Cu	1A1a	SOD PEAT	0.216443232	kg/TJ
2020	Cu	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.014684832	kg/TJ
2020	Cu	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.013403394	kg/TJ
2020	Cu	1A1a	WOOD RESIDUE CHIPS	0.020443225	kg/TJ
2020	Cu	1A1b	COKE (S=1.0%)	0.350000000	kg/TJ
2020	Cu	1A1b	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A1b	PETROLEUM COKE	0.350000000	kg/TJ
2020	Cu	1A2a	HEAVY FUEL OIL (S<1%)	0.002516256	kg/TJ
2020	Cu	1A2a	WOOD RESIDUE CHIPS	0.051000000	kg/TJ
2020	Cu	1A2b	HEAVY FUEL OIL (S<1%)	0.000770604	kg/TJ
2020	Cu	1A2c	COAL (S=1.0%)	0.001800000	kg/TJ
2020	Cu	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.002500000	kg/TJ
2020	Cu	1A2c	HEAVY FUEL OIL (S<1%)	0.002486999	kg/TJ
2020	Cu	1A2c	OTHER FOSSIL LIQUID	0.002500000	kg/TJ
2020	Cu	1A2c	OTHER HEAVY DISTILLATES	0.002500000	kg/TJ
2020	Cu	1A2c	PETROLEUM COKE	0.350000000	kg/TJ
2020	Cu	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.051000000	kg/TJ
2020	Cu	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.017479380	kg/TJ
2020	Cu	1A2d	ANIMAL-BASED FUELS	0.000633474	kg/TJ
2020	Cu	1A2d	BARK	0.005962530	kg/TJ
2020	Cu	1A2d	CHIPS FROM ROUNDWOOD	0.006586249	kg/TJ
2020	Cu	1A2d	COAL (S=1.0%)	0.000156677	kg/TJ

2020	Cu	1A2d	CREOSOTED WOOD	0.001407720	kg/TJ
2020	Cu	1A2d	DEMOLITION WOOD	0.001407720	kg/TJ
2020	Cu	1A2d	FOREST RESIDUE CHIPS	0.016477995	kg/TJ
2020	Cu	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.006765819	kg/TJ
2020	Cu	1A2d	HEAVY FUEL OIL (S<1%)	0.020598607	kg/TJ
2020	Cu	1A2d	INDUSTRIAL WASTE	0.013296356	kg/TJ
2020	Cu	1A2d	METHANOL	0.004154133	kg/TJ
2020	Cu	1A2d	MILLED PEAT	0.000834388	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Cu	1A2d	TRY	0.015169082	kg/TJ
2020	Cu	1A2d	OTHER FOSSIL SOLID	0.004000000	kg/TJ
2020	Cu	1A2d	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2020	Cu	1A2d	OTHER WOOD RESIDUE	0.012750000	kg/TJ
2020	Cu	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.049167900	kg/TJ
2020	Cu	1A2d	PAPER	0.000069628	kg/TJ
2020	Cu	1A2d	PLASTIC WASTE	0.000100015	kg/TJ
2020	Cu	1A2d	RECOVERED FUEL (REF 1)	0.032070587	kg/TJ
2020	Cu	1A2d	RECOVERED FUEL (REF 2)	0.001407720	kg/TJ
2020	Cu	1A2d	RECOVERED WOOD	0.012186728	kg/TJ
2020	Cu	1A2d	RECYCLED AND WASTE OILS	0.000126695	kg/TJ
2020	Cu	1A2d	SAWDUST AND CUTTER CHIPS	0.080764347	kg/TJ
2020	Cu	1A2d	SULPHITE LIQUOR	0.003803657	kg/TJ
2020	Cu	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.021001081	kg/TJ
2020	Cu	1A2d	WOOD RESIDUE CHIPS	0.001686907	kg/TJ
2020	Cu	1A2e	ANIMAL-BASED FUELS	0.051000000	kg/TJ
2020	Cu	1A2e	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2020	Cu	1A2e	COAL (S=1.0%)	0.004030523	kg/TJ
2020	Cu	1A2e	COKE (S=1.0%)	0.350000000	kg/TJ
2020	Cu	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.002500000	kg/TJ
2020	Cu	1A2e	HEAVY FUEL OIL (S<1%)	0.002653902	kg/TJ
2020	Cu	1A2e	MILLED PEAT	0.175408412	kg/TJ
2020	Cu	1A2e	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2020	Cu	1A2e	PEAT PELLETS AND BRIQUETTES	0.001300000	kg/TJ
2020	Cu	1A2e	RECOVERED WOOD	0.005000000	kg/TJ
2020	Cu	1A2e	SAWDUST AND CUTTER CHIPS	0.023715491	kg/TJ
2020	Cu	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.051000000	kg/TJ
2020	Cu	1A2e	WOOD RESIDUE CHIPS	0.051000000	kg/TJ
2020	Cu	1A2f	CHIPS FROM ROUNDWOOD	0.051000000	kg/TJ
2020	Cu	1A2f	COAL (S=1.0%)	0.209214936	kg/TJ
2020	Cu	1A2f	COKE (S=1.0%)	0.262008090	kg/TJ
2020	Cu	1A2f	FOREST RESIDUE CHIPS	0.051000000	kg/TJ
2020	Cu	1A2f	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A2f	INDUSTRIAL WASTE	0.003051261	kg/TJ
2020	Cu	1A2f	OTHER FOSSIL SOLID	0.000239315	kg/TJ
2020	Cu	1A2f	OTHER HEAVY DISTILLATES	0.002500000	kg/TJ
2020	Cu	1A2f	OTHER WASTE	0.000299143	kg/TJ
2020	Cu	1A2f	PETROLEUM COKE	0.011226655	kg/TJ
2020	Cu	1A2f	RECOVERED FUEL (REF 1)	0.004335141	kg/TJ
2020	Cu	1A2f	RECOVERED WOOD	0.005000000	kg/TJ
2020	Cu	1A2f	RECYCLED AND WASTE OILS	0.000552405	kg/TJ
2020	Cu	1A2f	RUBBER WASTE	0.000299143	kg/TJ
2020	Cu	1A2f	SAWDUST AND CUTTER CHIPS	0.005568615	kg/TJ
2020	Cu	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.039351852	kg/TJ
2020	Cu	1A2gvii	LIQUID GAS	0.036956522	kg/TJ
2020	Cu	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.040652099	kg/TJ
2020	Cu	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.005000000	kg/TJ
2020	Cu	1A2gviii	BARK	0.022112072	kg/TJ

2020	Cu	1A2gviii	CHIPS FROM ROUNDWOOD	0.007348894	kg/TJ
2020	Cu	1A2gviii	CREOSOTED WOOD	0.000798834	kg/TJ
2020	Cu	1A2gviii	DEMOLITION WOOD	0.001479432	kg/TJ
2020	Cu	1A2gviii	FOREST RESIDUE CHIPS	0.026083541	kg/TJ
2020	Cu	1A2gviii	HAZARDOUS WASTE	0.000619564	kg/TJ
2020	Cu	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.002500000	kg/TJ
2020	Cu	1A2gviii	HEAVY FUEL OIL (S<1%)	0.002377695	kg/TJ
2020	Cu	1A2gviii	MILLED PEAT	0.001719937	kg/TJ
2020	Cu	1A2gviii	MUNICIPAL WASTE - unsorted	0.000268383	kg/TJ
2020	Cu	1A2gviii	OTHER HEAVY DISTILLATES	0.001691098	kg/TJ
2020	Cu	1A2gviii	OTHER NON-FOSSIL SOLID	0.005194483	kg/TJ
2020	Cu	1A2gviii	OTHER WASTE	0.000646127	kg/TJ
2020	Cu	1A2gviii	OTHER WOOD RESIDUE	0.004336570	kg/TJ
2020	Cu	1A2gviii	PLASTIC WASTE	0.000622011	kg/TJ
2020	Cu	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000253283	kg/TJ
2020	Cu	1A2gviii	RECOVERED FUEL (REF 2)	0.051000000	kg/TJ
2020	Cu	1A2gviii	RECOVERED WOOD	0.007742504	kg/TJ
2020	Cu	1A2gviii	RECYCLED AND WASTE OILS	0.000013172	kg/TJ
2020	Cu	1A2gviii	SALT TREATED WOOD	0.000791865	kg/TJ
2020	Cu	1A2gviii	SAWDUST AND CUTTER CHIPS	0.032524437	kg/TJ
2020	Cu	1A2gviii	SOD PEAT	0.040625321	kg/TJ
2020	Cu	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.019356723	kg/TJ
2020	Cu	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.049293672	kg/TJ
2020	Cu	1A2gviii	WOOD RESIDUE CHIPS	0.030838955	kg/TJ
2020	Cu	1A3bi	DIESEL OIL (S=001%)	0.000133145	kg/TJ
2020	Cu	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000107803	kg/TJ
2020	Cu	1A3bii	DIESEL OIL (S=001%)	0.000133145	kg/TJ
2020	Cu	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000107608	kg/TJ
2020	Cu	1A3biii	DIESEL OIL (S=001%)	0.000133145	kg/TJ
2020	Cu	1A3biv	DIESEL OIL (S=001%)	0.000128827	kg/TJ
2020	Cu	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000107608	kg/TJ
2020	Cu	1A3c	GASOIL (FOR NON-ROAD USE)	0.039351852	kg/TJ
2020	Cu	1A3dii	GASOIL (FOR NON-ROAD USE)	0.004643777	kg/TJ
2020	Cu	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.004931004	kg/TJ
2020	Cu	1A4ai	FOREST WOODFUEL	0.006000000	kg/TJ
2020	Cu	1A4ai	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A4ai	SOD PEAT	0.220000000	kg/TJ
2020	Cu	1A4aii	GASOIL (FOR NON-ROAD USE)	0.039351852	kg/TJ
2020	Cu	1A4aii	MOTOR GASOLINE (S=0.001%)	0.040652099	kg/TJ
2020	Cu	1A4bi	COAL (S=1.0%)	0.175000000	kg/TJ
2020	Cu	1A4bi	FOREST WOODFUEL	0.006000000	kg/TJ
2020	Cu	1A4bi	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A4bi	SOD PEAT	0.220000000	kg/TJ
2020	Cu	1A4bii	GASOIL (FOR NON-ROAD USE)	0.039351852	kg/TJ
2020	Cu	1A4bii	MOTOR GASOLINE (S=0.001%)	0.040652099	kg/TJ
2020	Cu	1A4ci	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2020	Cu	1A4ci	COAL (S=1.0%)	0.004000000	kg/TJ
2020	Cu	1A4ci	FOREST WOODFUEL	0.006000000	kg/TJ
2020	Cu	1A4ci	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A4ci	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2020	Cu	1A4ci	RECOVERED WOOD	0.005000000	kg/TJ
2020	Cu	1A4ci	SOD PEAT	0.220000000	kg/TJ
2020	Cu	1A4ci	WOOD RESIDUE CHIPS	0.051000000	kg/TJ
2020	Cu	1A4cii	GASOIL (FOR NON-ROAD USE)	0.039351852	kg/TJ
2020	Cu	1A4cii	MOTOR GASOLINE (S=0.001%)	0.040652099	kg/TJ
2020	Cu	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.004629630	kg/TJ

2020	Cu	1A5a	FOREST WOODFUEL	0.051000000	kg/TJ
2020	Cu	1A5a	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2020	Cu	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000884308	kg/TJ
2020	Cu	1A5a	OTHER PETROLEUM PRODUCTS	0.002500000	kg/TJ

Ni Implied emission factors in Finnish air pollutant inventory for 2020

2020	Ni	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.001682154	kg/TJ
2020	Ni	1A1a	ANIMAL-BASED FUELS	0.000553168	kg/TJ
2020	Ni	1A1a	BARK	0.004070160	kg/TJ
2020	Ni	1A1a	CHIPS FROM ROUNDWOOD	0.003256769	kg/TJ
2020	Ni	1A1a	COAL (S=1.0%)	0.002397235	kg/TJ
2020	Ni	1A1a	CREOSOTED WOOD	0.002000000	kg/TJ
2020	Ni	1A1a	DEINKING WASTE	0.030000000	kg/TJ
2020	Ni	1A1a	DEMOLITION WOOD	0.000366306	kg/TJ
2020	Ni	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.001593684	kg/TJ
2020	Ni	1A1a	FOREST RESIDUE CHIPS	0.008805717	kg/TJ
2020	Ni	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.023566781	kg/TJ
2020	Ni	1A1a	HEAVY FUEL OIL (S<1%)	0.139281072	kg/TJ
2020	Ni	1A1a	INDUSTRIAL WASTE	0.000767184	kg/TJ
2020	Ni	1A1a	MILLED PEAT	0.007063987	kg/TJ
2020	Ni	1A1a	MUNICIPAL WASTE - unsorted	0.010189506	kg/TJ
2020	Ni	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002000000	kg/TJ
2020	Ni	1A1a	OTHER FOSSIL SOLID	0.003949862	kg/TJ
2020	Ni	1A1a	OTHER HEAVY DISTILLATES	0.300000000	kg/TJ
2020	Ni	1A1a	OTHER NON-FOSSIL SOLID	0.002158212	kg/TJ
2020	Ni	1A1a	OTHER WASTE	0.000111760	kg/TJ
2020	Ni	1A1a	OTHER WOOD RESIDUE	0.004552209	kg/TJ
2020	Ni	1A1a	PAPER	0.000561814	kg/TJ
2020	Ni	1A1a	PLASTIC WASTE	0.000183215	kg/TJ
2020	Ni	1A1a	PLYWOOD RESIDUE	0.000944589	kg/TJ
2020	Ni	1A1a	RECOVERED FUEL (REF 1)	0.030000000	kg/TJ
2020	Ni	1A1a	RECOVERED FUEL (REF 2)	0.000523555	kg/TJ
2020	Ni	1A1a	RECOVERED FUEL (REF 3)	0.000485831	kg/TJ
2020	Ni	1A1a	RECOVERED WOOD	0.001403235	kg/TJ
2020	Ni	1A1a	RECYCLED AND WASTE OILS	0.004000000	kg/TJ
2020	Ni	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000500000	kg/TJ
2020	Ni	1A1a	SAWDUST AND CUTTER CHIPS	0.004831731	kg/TJ
2020	Ni	1A1a	SOD PEAT	0.137270509	kg/TJ
2020	Ni	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005290339	kg/TJ
2020	Ni	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.007534104	kg/TJ
2020	Ni	1A1a	WOOD RESIDUE CHIPS	0.011080057	kg/TJ
2020	Ni	1A1b	COKE (S=1.0%)	0.800000000	kg/TJ
2020	Ni	1A1b	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A1b	PETROLEUM COKE	0.000806668	kg/TJ
2020	Ni	1A2a	HEAVY FUEL OIL (S<1%)	0.300030460	kg/TJ
2020	Ni	1A2a	WOOD RESIDUE CHIPS	0.030000000	kg/TJ
2020	Ni	1A2b	COAL (S=1.0%)	0.800000000	kg/TJ
2020	Ni	1A2b	HEAVY FUEL OIL (S<1%)	0.092472526	kg/TJ
2020	Ni	1A2c	COAL (S=1.0%)	0.001000000	kg/TJ
2020	Ni	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.300000000	kg/TJ
2020	Ni	1A2c	HEAVY FUEL OIL (S<1%)	0.298041125	kg/TJ
2020	Ni	1A2c	OTHER FOSSIL LIQUID	0.300000000	kg/TJ
2020	Ni	1A2c	OTHER HEAVY DISTILLATES	0.300000000	kg/TJ
2020	Ni	1A2c	PETROLEUM COKE	0.800000000	kg/TJ
2020	Ni	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.030000000	kg/TJ
2020	Ni	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.001423936	kg/TJ
2020	Ni	1A2d	ANIMAL-BASED FUELS	0.000500000	kg/TJ
2020	Ni	1A2d	BARK	0.004852782	kg/TJ
2020	Ni	1A2d	BLACK LIQUOR	0.000463882	kg/TJ

2020	Ni	1A2d	CHIPS FROM ROUNDWOOD	0.015193730	kg/TJ
2020	Ni	1A2d	COAL (S=1.0%)	0.000216467	kg/TJ
2020	Ni	1A2d	CREOSOTED WOOD	0.002000000	kg/TJ
2020	Ni	1A2d	DEMOLITION WOOD	0.002000000	kg/TJ
2020	Ni	1A2d	FOREST RESIDUE CHIPS	0.006063132	kg/TJ
2020	Ni	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.001993060	kg/TJ
2020	Ni	1A2d	HEAVY FUEL OIL (S<1%)	0.069078940	kg/TJ
2020	Ni	1A2d	INDUSTRIAL WASTE	0.007502683	kg/TJ
2020	Ni	1A2d	METHANOL	0.000161751	kg/TJ
2020	Ni	1A2d	MILLED PEAT	0.004111761	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Ni	1A2d	TRY	0.000386473	kg/TJ
2020	Ni	1A2d	OTHER FOSSIL SOLID	0.004000000	kg/TJ
2020	Ni	1A2d	OTHER HEAVY DISTILLATES	0.150000000	kg/TJ
2020	Ni	1A2d	OTHER WOOD RESIDUE	0.003900000	kg/TJ
2020	Ni	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000598340	kg/TJ
2020	Ni	1A2d	PAPER	0.000725535	kg/TJ
2020	Ni	1A2d	PLASTIC WASTE	0.000020751	kg/TJ
2020	Ni	1A2d	RECOVERED FUEL (REF 1)	0.022671538	kg/TJ
2020	Ni	1A2d	RECOVERED FUEL (REF 2)	0.002000000	kg/TJ
2020	Ni	1A2d	RECOVERED WOOD	0.000576949	kg/TJ
2020	Ni	1A2d	RECYCLED AND WASTE OILS	0.001000000	kg/TJ
2020	Ni	1A2d	SAWDUST AND CUTTER CHIPS	0.012159593	kg/TJ
2020	Ni	1A2d	SULPHITE LIQUOR	0.001597643	kg/TJ
2020	Ni	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003593706	kg/TJ
2020	Ni	1A2d	WOOD RESIDUE CHIPS	0.000974032	kg/TJ
2020	Ni	1A2e	ANIMAL-BASED FUELS	0.030000000	kg/TJ
2020	Ni	1A2e	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2020	Ni	1A2e	COAL (S=1.0%)	0.004030523	kg/TJ
2020	Ni	1A2e	COKE (S=1.0%)	0.800000000	kg/TJ
2020	Ni	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.300000000	kg/TJ
2020	Ni	1A2e	HEAVY FUEL OIL (S<1%)	0.318929622	kg/TJ
2020	Ni	1A2e	MILLED PEAT	0.111617974	kg/TJ
2020	Ni	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2020	Ni	1A2e	PEAT PELLETS AND BRIQUETTES	0.000800000	kg/TJ
2020	Ni	1A2e	RECOVERED WOOD	0.002000000	kg/TJ
2020	Ni	1A2e	SAWDUST AND CUTTER CHIPS	0.013392038	kg/TJ
2020	Ni	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.030000000	kg/TJ
2020	Ni	1A2e	WOOD RESIDUE CHIPS	0.030000000	kg/TJ
2020	Ni	1A2f	CHIPS FROM ROUNDWOOD	0.030000000	kg/TJ
2020	Ni	1A2f	COAL (S=1.0%)	0.477229554	kg/TJ
2020	Ni	1A2f	COKE (S=1.0%)	0.591950949	kg/TJ
2020	Ni	1A2f	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2020	Ni	1A2f	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A2f	INDUSTRIAL WASTE	0.000823760	kg/TJ
2020	Ni	1A2f	OTHER FOSSIL SOLID	0.000109835	kg/TJ
2020	Ni	1A2f	OTHER HEAVY DISTILLATES	0.300000000	kg/TJ
2020	Ni	1A2f	OTHER WASTE	0.000054917	kg/TJ
2020	Ni	1A2f	PETROLEUM COKE	0.001694942	kg/TJ
2020	Ni	1A2f	RECOVERED FUEL (REF 1)	0.000476692	kg/TJ
2020	Ni	1A2f	RECOVERED WOOD	0.002000000	kg/TJ
2020	Ni	1A2f	RECYCLED AND WASTE OILS	0.024113276	kg/TJ
2020	Ni	1A2f	RUBBER WASTE	0.000054917	kg/TJ
2020	Ni	1A2f	SAWDUST AND CUTTER CHIPS	0.014057810	kg/TJ
2020	Ni	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.001620370	kg/TJ
2020	Ni	1A2gvii	LIQUID GAS	0.001521739	kg/TJ
2020	Ni	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.001673910	kg/TJ

2020	Ni	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.002000000	kg/TJ
2020	Ni	1A2gviii	BARK	0.012477123	kg/TJ
2020	Ni	1A2gviii	CHIPS FROM ROUNDWOOD	0.004038190	kg/TJ
2020	Ni	1A2gviii	CREOSOTED WOOD	0.000141460	kg/TJ
2020	Ni	1A2gviii	DEMOLITION WOOD	0.000514409	kg/TJ
2020	Ni	1A2gviii	FOREST RESIDUE CHIPS	0.015053500	kg/TJ
2020	Ni	1A2gviii	HAZARDOUS WASTE	0.000242740	kg/TJ
2020	Ni	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.300000000	kg/TJ
2020	Ni	1A2gviii	HEAVY FUEL OIL (S<1%)	0.285591124	kg/TJ
2020	Ni	1A2gviii	MILLED PEAT	0.001067746	kg/TJ
2020	Ni	1A2gviii	MUNICIPAL WASTE - unsorted	0.000230269	kg/TJ
2020	Ni	1A2gviii	OTHER HEAVY DISTILLATES	0.161427314	kg/TJ
2020	Ni	1A2gviii	OTHER NON-FOSSIL SOLID	0.002163114	kg/TJ
2020	Ni	1A2gviii	OTHER WASTE	0.000341619	kg/TJ
2020	Ni	1A2gviii	OTHER WOOD RESIDUE	0.001638129	kg/TJ
2020	Ni	1A2gviii	PLASTIC WASTE	0.000445928	kg/TJ
2020	Ni	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000075047	kg/TJ
2020	Ni	1A2gviii	RECOVERED FUEL (REF 2)	0.030000000	kg/TJ
2020	Ni	1A2gviii	RECOVERED WOOD	0.003669350	kg/TJ
2020	Ni	1A2gviii	RECYCLED AND WASTE OILS	0.000013964	kg/TJ
2020	Ni	1A2gviii	SALT TREATED WOOD	0.000150594	kg/TJ
2020	Ni	1A2gviii	SAWDUST AND CUTTER CHIPS	0.018821648	kg/TJ
2020	Ni	1A2gviii	SOD PEAT	0.026312775	kg/TJ
2020	Ni	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.010967169	kg/TJ
2020	Ni	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.028961365	kg/TJ
2020	Ni	1A2gviii	WOOD RESIDUE CHIPS	0.017755400	kg/TJ
2020	Ni	1A3bi	DIESEL OIL (S=0.001%)	0.000004672	kg/TJ
2020	Ni	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000055099	kg/TJ
2020	Ni	1A3bii	DIESEL OIL (S=0.001%)	0.000004672	kg/TJ
2020	Ni	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000055000	kg/TJ
2020	Ni	1A3biii	DIESEL OIL (S=0.001%)	0.000004672	kg/TJ
2020	Ni	1A3biv	DIESEL OIL (S=0.001%)	0.000004520	kg/TJ
2020	Ni	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000055000	kg/TJ
2020	Ni	1A3c	GASOIL (FOR NON-ROAD USE)	0.001620370	kg/TJ
2020	Ni	1A3dii	GASOIL (FOR NON-ROAD USE)	0.023218884	kg/TJ
2020	Ni	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.788960643	kg/TJ
2020	Ni	1A4ai	FOREST WOODFUEL	0.030000000	kg/TJ
2020	Ni	1A4ai	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A4ai	SOD PEAT	0.140000000	kg/TJ
2020	Ni	1A4aii	GASOIL (FOR NON-ROAD USE)	0.001620370	kg/TJ
2020	Ni	1A4aii	MOTOR GASOLINE (S=0.001%)	0.001673910	kg/TJ
2020	Ni	1A4bi	COAL (S=1.0%)	0.400000000	kg/TJ
2020	Ni	1A4bi	FOREST WOODFUEL	0.030000000	kg/TJ
2020	Ni	1A4bi	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A4bi	SOD PEAT	0.140000000	kg/TJ
2020	Ni	1A4bii	GASOIL (FOR NON-ROAD USE)	0.001620370	kg/TJ
2020	Ni	1A4bii	MOTOR GASOLINE (S=0.001%)	0.001673910	kg/TJ
2020	Ni	1A4ci	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2020	Ni	1A4ci	COAL (S=1.0%)	0.004000000	kg/TJ
2020	Ni	1A4ci	FOREST WOODFUEL	0.030000000	kg/TJ
2020	Ni	1A4ci	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A4ci	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2020	Ni	1A4ci	RECOVERED WOOD	0.002000000	kg/TJ
2020	Ni	1A4ci	SOD PEAT	0.140000000	kg/TJ
2020	Ni	1A4ci	WOOD RESIDUE CHIPS	0.030000000	kg/TJ
2020	Ni	1A4cii	GASOIL (FOR NON-ROAD USE)	0.001620370	kg/TJ

2020	Ni	1A4cii	MOTOR GASOLINE (S=0.001%)	0.001673910	kg/TJ
2020	Ni	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Ni	1A5a	FOREST WOODFUEL	0.030000000	kg/TJ
2020	Ni	1A5a	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2020	Ni	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.002099271	kg/TJ
2020	Ni	1A5a	OTHER PETROLEUM PRODUCTS	0.300000000	kg/TJ

Se Implied emission factors in Finnish air pollutant inventory for 2020

2020	Se	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A2gvii	LIQUID GAS	0.000217391	kg/TJ
2020	Se	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Se	1A3bi	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	Se	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000004791	kg/TJ
2020	Se	1A3bii	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	Se	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000004783	kg/TJ
2020	Se	1A3biii	DIESEL OIL (S=001%)	0.000002336	kg/TJ
2020	Se	1A3biv	DIESEL OIL (S=001%)	0.000002260	kg/TJ
2020	Se	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000004783	kg/TJ
2020	Se	1A3c	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000232189	kg/TJ
2020	Se	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000986201	kg/TJ
2020	Se	1A4ai	FOREST WOODFUEL	0.005000000	kg/TJ
2020	Se	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Se	1A4bi	FOREST WOODFUEL	0.005000000	kg/TJ
2020	Se	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Se	1A4ci	FOREST WOODFUEL	0.005000000	kg/TJ
2020	Se	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000239130	kg/TJ
2020	Se	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000231481	kg/TJ
2020	Se	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000023555	kg/TJ

Zn Implied emission factors in Finnish air pollutant inventory for 2020

2020	Zn	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.043935845	kg/TJ
2020	Zn	1A1a	ANIMAL-BASED FUELS	0.024415334	kg/TJ
2020	Zn	1A1a	BARK	0.097865522	kg/TJ
2020	Zn	1A1a	CHIPS FROM ROUNDWOOD	0.074554609	kg/TJ
2020	Zn	1A1a	COAL (S=1.0%)	0.010075030	kg/TJ
2020	Zn	1A1a	CREOSOTED WOOD	0.054000000	kg/TJ
2020	Zn	1A1a	DEINKING WASTE	0.700000000	kg/TJ
2020	Zn	1A1a	DEMOLITION WOOD	0.053884202	kg/TJ
2020	Zn	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.042642838	kg/TJ
2020	Zn	1A1a	FOREST RESIDUE CHIPS	0.211854627	kg/TJ
2020	Zn	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.003301686	kg/TJ
2020	Zn	1A1a	HEAVY FUEL OIL (S<1%)	0.006162106	kg/TJ
2020	Zn	1A1a	INDUSTRIAL WASTE	0.014034596	kg/TJ
2020	Zn	1A1a	MILLED PEAT	0.026708678	kg/TJ
2020	Zn	1A1a	MUNICIPAL WASTE - unsorted	0.235118002	kg/TJ
2020	Zn	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.054000000	kg/TJ
2020	Zn	1A1a	OTHER FOSSIL SOLID	0.085553461	kg/TJ
2020	Zn	1A1a	OTHER HEAVY DISTILLATES	0.012000000	kg/TJ
2020	Zn	1A1a	OTHER NON-FOSSIL SOLID	0.057528043	kg/TJ
2020	Zn	1A1a	OTHER WASTE	0.043518271	kg/TJ
2020	Zn	1A1a	OTHER WOOD RESIDUE	0.081469977	kg/TJ
2020	Zn	1A1a	PAPER	0.009683509	kg/TJ
2020	Zn	1A1a	PLASTIC WASTE	0.016850573	kg/TJ
2020	Zn	1A1a	PLYWOOD RESIDUE	0.022648154	kg/TJ
2020	Zn	1A1a	RECOVERED FUEL (REF 1)	0.700000000	kg/TJ
2020	Zn	1A1a	RECOVERED FUEL (REF 2)	0.472479490	kg/TJ
2020	Zn	1A1a	RECOVERED FUEL (REF 3)	0.007556219	kg/TJ
2020	Zn	1A1a	RECOVERED WOOD	0.248049058	kg/TJ
2020	Zn	1A1a	RECYCLED AND WASTE OILS	0.006000000	kg/TJ
2020	Zn	1A1a	REFUSE-DERIVED FUEL (RDF)	0.007714286	kg/TJ
2020	Zn	1A1a	SAWDUST AND CUTTER CHIPS	0.149977417	kg/TJ
2020	Zn	1A1a	SOD PEAT	0.326865475	kg/TJ
2020	Zn	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.187977167	kg/TJ
2020	Zn	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.098253524	kg/TJ
2020	Zn	1A1a	WOOD RESIDUE CHIPS	0.334932924	kg/TJ
2020	Zn	1A1b	COKE (S=1.0%)	1.500000000	kg/TJ
2020	Zn	1A1b	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A1b	PETROLEUM COKE	1.500000000	kg/TJ
2020	Zn	1A2a	HEAVY FUEL OIL (S<1%)	0.011985326	kg/TJ
2020	Zn	1A2a	WOOD RESIDUE CHIPS	0.700000000	kg/TJ
2020	Zn	1A2b	HEAVY FUEL OIL (S<1%)	0.001215611	kg/TJ
2020	Zn	1A2c	COAL (S=1.0%)	0.012000000	kg/TJ
2020	Zn	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.012000000	kg/TJ
2020	Zn	1A2c	HEAVY FUEL OIL (S<1%)	0.011947994	kg/TJ
2020	Zn	1A2c	OTHER FOSSIL LIQUID	0.012000000	kg/TJ
2020	Zn	1A2c	OTHER HEAVY DISTILLATES	0.012000000	kg/TJ
2020	Zn	1A2c	PETROLEUM COKE	1.500000000	kg/TJ
2020	Zn	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2020	Zn	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.030538918	kg/TJ
2020	Zn	1A2d	ANIMAL-BASED FUELS	0.007714286	kg/TJ
2020	Zn	1A2d	BARK	0.034820365	kg/TJ
2020	Zn	1A2d	CHIPS FROM ROUNDWOOD	0.091867523	kg/TJ
2020	Zn	1A2d	COAL (S=1.0%)	0.012000000	kg/TJ

2020	Zn	1A2d	CREOSOTED WOOD	0.054000000	kg/TJ
2020	Zn	1A2d	DEMOLITION WOOD	0.054000000	kg/TJ
2020	Zn	1A2d	FOREST RESIDUE CHIPS	0.032509525	kg/TJ
2020	Zn	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.015526857	kg/TJ
2020	Zn	1A2d	HEAVY FUEL OIL (S<1%)	0.058504452	kg/TJ
2020	Zn	1A2d	INDUSTRIAL WASTE	0.178296178	kg/TJ
2020	Zn	1A2d	METHANOL	0.000911431	kg/TJ
2020	Zn	1A2d	MILLED PEAT	0.001636957	kg/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	Zn	1A2d	TRY	0.000386473	kg/TJ
2020	Zn	1A2d	OTHER FOSSIL SOLID	0.084000000	kg/TJ
2020	Zn	1A2d	OTHER HEAVY DISTILLATES	0.006000000	kg/TJ
2020	Zn	1A2d	OTHER WOOD RESIDUE	0.175000000	kg/TJ
2020	Zn	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.007714286	kg/TJ
2020	Zn	1A2d	PAPER	0.054000000	kg/TJ
2020	Zn	1A2d	PLASTIC WASTE	0.007711573	kg/TJ
2020	Zn	1A2d	RECOVERED FUEL (REF 1)	0.700000000	kg/TJ
2020	Zn	1A2d	RECOVERED FUEL (REF 2)	0.054000000	kg/TJ
2020	Zn	1A2d	RECOVERED WOOD	0.019361872	kg/TJ
2020	Zn	1A2d	RECYCLED AND WASTE OILS	0.000857143	kg/TJ
2020	Zn	1A2d	SAWDUST AND CUTTER CHIPS	0.283827547	kg/TJ
2020	Zn	1A2d	SULPHITE LIQUOR	0.042052866	kg/TJ
2020	Zn	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.063153618	kg/TJ
2020	Zn	1A2d	WOOD RESIDUE CHIPS	0.470635346	kg/TJ
2020	Zn	1A2e	ANIMAL-BASED FUELS	0.700000000	kg/TJ
2020	Zn	1A2e	CHIPS FROM ROUNDWOOD	0.054000000	kg/TJ
2020	Zn	1A2e	COAL (S=1.0%)	0.084103573	kg/TJ
2020	Zn	1A2e	COKE (S=1.0%)	1.500000000	kg/TJ
2020	Zn	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.012000000	kg/TJ
2020	Zn	1A2e	HEAVY FUEL OIL (S<1%)	0.012753635	kg/TJ
2020	Zn	1A2e	MILLED PEAT	0.264346176	kg/TJ
2020	Zn	1A2e	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2020	Zn	1A2e	PEAT PELLETS AND BRIQUETTES	0.008000000	kg/TJ
2020	Zn	1A2e	RECOVERED WOOD	0.054000000	kg/TJ
2020	Zn	1A2e	SAWDUST AND CUTTER CHIPS	0.316830594	kg/TJ
2020	Zn	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2020	Zn	1A2e	WOOD RESIDUE CHIPS	0.700000000	kg/TJ
2020	Zn	1A2f	CHIPS FROM ROUNDWOOD	0.700000000	kg/TJ
2020	Zn	1A2f	COAL (S=1.0%)	1.014642631	kg/TJ
2020	Zn	1A2f	COKE (S=1.0%)	1.500000000	kg/TJ
2020	Zn	1A2f	FOREST RESIDUE CHIPS	0.700000000	kg/TJ
2020	Zn	1A2f	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A2f	INDUSTRIAL WASTE	0.700000000	kg/TJ
2020	Zn	1A2f	OTHER FOSSIL SOLID	0.084000000	kg/TJ
2020	Zn	1A2f	OTHER HEAVY DISTILLATES	0.012000000	kg/TJ
2020	Zn	1A2f	OTHER WASTE	0.054000000	kg/TJ
2020	Zn	1A2f	PETROLEUM COKE	0.510292107	kg/TJ
2020	Zn	1A2f	RECOVERED FUEL (REF 1)	0.700000000	kg/TJ
2020	Zn	1A2f	RECOVERED WOOD	0.054000000	kg/TJ
2020	Zn	1A2f	RECYCLED AND WASTE OILS	0.006000000	kg/TJ
2020	Zn	1A2f	RUBBER WASTE	0.054000000	kg/TJ
2020	Zn	1A2f	SAWDUST AND CUTTER CHIPS	0.088737800	kg/TJ
2020	Zn	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Zn	1A2gvii	LIQUID GAS	0.021739130	kg/TJ
2020	Zn	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.023913000	kg/TJ
2020	Zn	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.054000000	kg/TJ
2020	Zn	1A2gviii	BARK	0.293828520	kg/TJ

2020	Zn	1A2gviii	CHIPS FROM ROUNDWOOD	0.087156329	kg/TJ
2020	Zn	1A2gviii	CREOSOTED WOOD	0.054000000	kg/TJ
2020	Zn	1A2gviii	DEMOLITION WOOD	0.054000000	kg/TJ
2020	Zn	1A2gviii	FOREST RESIDUE CHIPS	0.347616301	kg/TJ
2020	Zn	1A2gviii	HAZARDOUS WASTE	0.478846780	kg/TJ
2020	Zn	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.012000000	kg/TJ
2020	Zn	1A2gviii	HEAVY FUEL OIL (S<1%)	0.011877316	kg/TJ
2020	Zn	1A2gviii	MILLED PEAT	0.008615912	kg/TJ
2020	Zn	1A2gviii	MUNICIPAL WASTE - unsorted	0.027230575	kg/TJ
2020	Zn	1A2gviii	OTHER HEAVY DISTILLATES	0.008708034	kg/TJ
2020	Zn	1A2gviii	OTHER NON-FOSSIL SOLID	0.057036437	kg/TJ
2020	Zn	1A2gviii	OTHER WASTE	0.054000000	kg/TJ
2020	Zn	1A2gviii	OTHER WOOD RESIDUE	0.042833695	kg/TJ
2020	Zn	1A2gviii	PLASTIC WASTE	0.052511513	kg/TJ
2020	Zn	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.012000000	kg/TJ
2020	Zn	1A2gviii	RECOVERED FUEL (REF 2)	0.700000000	kg/TJ
2020	Zn	1A2gviii	RECOVERED WOOD	0.092514289	kg/TJ
2020	Zn	1A2gviii	RECYCLED AND WASTE OILS	0.006000000	kg/TJ
2020	Zn	1A2gviii	SALT TREATED WOOD	0.054000000	kg/TJ
2020	Zn	1A2gviii	SAWDUST AND CUTTER CHIPS	0.441000373	kg/TJ
2020	Zn	1A2gviii	SOD PEAT	0.063407021	kg/TJ
2020	Zn	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.255750144	kg/TJ
2020	Zn	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.676037215	kg/TJ
2020	Zn	1A2gviii	WOOD RESIDUE CHIPS	0.416185555	kg/TJ
2020	Zn	1A3bi	DIESEL OIL (S=001%)	0.000420457	kg/TJ
2020	Zn	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000790557	kg/TJ
2020	Zn	1A3bii	DIESEL OIL (S=001%)	0.000420457	kg/TJ
2020	Zn	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000789129	kg/TJ
2020	Zn	1A3biii	DIESEL OIL (S=001%)	0.000420457	kg/TJ
2020	Zn	1A3biv	DIESEL OIL (S=001%)	0.000406822	kg/TJ
2020	Zn	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000789129	kg/TJ
2020	Zn	1A3c	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Zn	1A3dii	GASOIL (FOR NON-ROAD USE)	0.027862660	kg/TJ
2020	Zn	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.029586024	kg/TJ
2020	Zn	1A4ai	FOREST WOODFUEL	0.700000000	kg/TJ
2020	Zn	1A4ai	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A4ai	SOD PEAT	0.330000000	kg/TJ
2020	Zn	1A4aii	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Zn	1A4aii	MOTOR GASOLINE (S=0.001%)	0.023913000	kg/TJ
2020	Zn	1A4bi	COAL (S=1.0%)	0.750000000	kg/TJ
2020	Zn	1A4bi	FOREST WOODFUEL	0.700000000	kg/TJ
2020	Zn	1A4bi	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A4bi	SOD PEAT	0.330000000	kg/TJ
2020	Zn	1A4bii	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Zn	1A4bii	MOTOR GASOLINE (S=0.001%)	0.023913000	kg/TJ
2020	Zn	1A4ci	CHIPS FROM ROUNDWOOD	0.054000000	kg/TJ
2020	Zn	1A4ci	COAL (S=1.0%)	0.084000000	kg/TJ
2020	Zn	1A4ci	FOREST WOODFUEL	0.700000000	kg/TJ
2020	Zn	1A4ci	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A4ci	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2020	Zn	1A4ci	RECOVERED WOOD	0.054000000	kg/TJ
2020	Zn	1A4ci	SOD PEAT	0.330000000	kg/TJ
2020	Zn	1A4ci	WOOD RESIDUE CHIPS	0.700000000	kg/TJ
2020	Zn	1A4cii	GASOIL (FOR NON-ROAD USE)	0.023148148	kg/TJ
2020	Zn	1A4cii	MOTOR GASOLINE (S=0.001%)	0.023913000	kg/TJ
2020	Zn	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.027777778	kg/TJ

2020	Zn	1A5a	FOREST WOODFUEL	0.700000000	kg/TJ
2020	Zn	1A5a	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2020	Zn	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.002771462	kg/TJ
2020	Zn	1A5a	OTHER PETROLEUM PRODUCTS	0.012000000	kg/TJ

PCDD/F Implied emission factors in Finnish air pollutant inventory for 2020

2020	PCDD/F	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000021393	g/TJ
2020	PCDD/F	1A1a	ANIMAL-BASED FUELS	0.000004297	g/TJ
2020	PCDD/F	1A1a	BARK	0.000019786	g/TJ
2020	PCDD/F	1A1a	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2020	PCDD/F	1A1a	BLAST FURNACE GAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	CHIPS FROM ROUNDWOOD	0.000016387	g/TJ
2020	PCDD/F	1A1a	COAL (S=1.0%)	0.000003030	g/TJ
2020	PCDD/F	1A1a	COKE OVEN GAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	CREOSOTED WOOD	0.000041250	g/TJ
2020	PCDD/F	1A1a	DEINKING WASTE	0.000041250	g/TJ
2020	PCDD/F	1A1a	DEMOLITION WOOD	0.000006533	g/TJ
2020	PCDD/F	1A1a	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000021000	g/TJ
2020	PCDD/F	1A1a	FOREST RESIDUE CHIPS	0.000016498	g/TJ
2020	PCDD/F	1A1a	GASIFIED WASTE	0.000000500	g/TJ
2020	PCDD/F	1A1a	GASOIL (FOR NON-ROAD USE)	0.000000466	g/TJ
2020	PCDD/F	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000000318	g/TJ
2020	PCDD/F	1A1a	HEAVY FUEL OIL (S<1%)	0.000000380	g/TJ
2020	PCDD/F	1A1a	HYDROGEN	0.000000500	g/TJ
2020	PCDD/F	1A1a	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	INDUSTRIAL WASTE	0.000040628	g/TJ
2020	PCDD/F	1A1a	LANDFILL GAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.000000494	g/TJ
2020	PCDD/F	1A1a	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	MILLED PEAT	0.000015678	g/TJ
2020	PCDD/F	1A1a	MUNICIPAL WASTE - unsorted	0.000064954	g/TJ
2020	PCDD/F	1A1a	NATURAL GAS	0.000000464	g/TJ
2020	PCDD/F	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS- TRY	0.000021000	g/TJ
2020	PCDD/F	1A1a	OTHER FOSSIL GAS	0.000000435	g/TJ
2020	PCDD/F	1A1a	OTHER FOSSIL SOLID	0.000003652	g/TJ
2020	PCDD/F	1A1a	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A1a	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A1a	OTHER NON-FOSSIL LIQUID	0.000000400	g/TJ
2020	PCDD/F	1A1a	OTHER NON-FOSSIL SOLID	0.000020829	g/TJ
2020	PCDD/F	1A1a	OTHER WASTE	0.000034819	g/TJ
2020	PCDD/F	1A1a	OTHER WOOD RESIDUE	0.000021000	g/TJ
2020	PCDD/F	1A1a	PAPER	0.000021000	g/TJ
2020	PCDD/F	1A1a	PLASTIC WASTE	0.000000050	g/TJ
2020	PCDD/F	1A1a	PLYWOOD RESIDUE	0.000021000	g/TJ
2020	PCDD/F	1A1a	RECOVERED FUEL (REF 1)	0.000041250	g/TJ
2020	PCDD/F	1A1a	RECOVERED FUEL (REF 2)	0.000031841	g/TJ
2020	PCDD/F	1A1a	RECOVERED FUEL (REF 3)	0.000041347	g/TJ
2020	PCDD/F	1A1a	RECOVERED WOOD	0.000019012	g/TJ
2020	PCDD/F	1A1a	RECYCLED AND WASTE OILS	0.000000400	g/TJ
2020	PCDD/F	1A1a	REFINERY GAS	0.000000126	g/TJ
2020	PCDD/F	1A1a	REFUSE-DERIVED FUEL (RDF)	0.000185000	g/TJ
2020	PCDD/F	1A1a	SAWDUST AND CUTTER CHIPS	0.000017099	g/TJ
2020	PCDD/F	1A1a	SOD PEAT	0.000017500	g/TJ
2020	PCDD/F	1A1a	TALL PITCH AND OIL	0.000000400	g/TJ
2020	PCDD/F	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000020747	g/TJ
2020	PCDD/F	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000019451	g/TJ
2020	PCDD/F	1A1a	WOOD RESIDUE CHIPS	0.000019963	g/TJ
2020	PCDD/F	1A1b	COKE (S=1.0%)	0.000004000	g/TJ

2020	PCDD/F	1A1b	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A1b	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A1b	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A1b	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A1b	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A1b	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A1b	OTHER FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A1b	OTHER FOSSIL LIQUID	0.000000400	g/TJ
2020	PCDD/F	1A1b	OTHER MEDIUM DISTILLATES	0.000000500	g/TJ
2020	PCDD/F	1A1b	PETROLEUM COKE	0.000004000	g/TJ
2020	PCDD/F	1A1b	REFINERY GAS	0.000000500	g/TJ
2020	PCDD/F	1A2a	BLAST FURNACE GAS	0.000000184	g/TJ
2020	PCDD/F	1A2a	COKE OVEN GAS	0.000000258	g/TJ
2020	PCDD/F	1A2a	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2a	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2a	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A2a	LIQUID GAS	0.000000094	g/TJ
2020	PCDD/F	1A2a	NATURAL GAS	0.000000461	g/TJ
2020	PCDD/F	1A2a	OTHER FOSSIL GAS	0.000000444	g/TJ
2020	PCDD/F	1A2a	OXYGEN STEEL FURNACE GAS	0.000000500	g/TJ
2020	PCDD/F	1A2a	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2b	COKE (S=1.0%)	0.000004000	g/TJ
2020	PCDD/F	1A2b	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2b	HEAVY FUEL OIL (S<1%)	0.000000317	g/TJ
2020	PCDD/F	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000000431	g/TJ
2020	PCDD/F	1A2b	LIQUID GAS	0.000000494	g/TJ
2020	PCDD/F	1A2b	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2b	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A2c	COAL (S=1.0%)	0.000004000	g/TJ
2020	PCDD/F	1A2c	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2c	GASIFIED WASTE	0.000000500	g/TJ
2020	PCDD/F	1A2c	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000000400	g/TJ
2020	PCDD/F	1A2c	HEAVY FUEL OIL (S<1%)	0.000000191	g/TJ
2020	PCDD/F	1A2c	HYDROGEN	0.000000500	g/TJ
2020	PCDD/F	1A2c	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000000497	g/TJ
2020	PCDD/F	1A2c	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	OTHER FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	OTHER FOSSIL LIQUID	0.000000400	g/TJ
2020	PCDD/F	1A2c	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A2c	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	PETROLEUM COKE	0.000004000	g/TJ
2020	PCDD/F	1A2c	REFINERY GAS	0.000000500	g/TJ
2020	PCDD/F	1A2c	TALL PITCH AND OIL	0.000000400	g/TJ
2020	PCDD/F	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2020	PCDD/F	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000026882	g/TJ
2020	PCDD/F	1A2d	ANIMAL-BASED FUELS	0.000021000	g/TJ
2020	PCDD/F	1A2d	AROMATIC GAS	0.000001794	g/TJ
2020	PCDD/F	1A2d	BARK	0.000019233	g/TJ
2020	PCDD/F	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.000000003	g/TJ
2020	PCDD/F	1A2d	CHIPS FROM ROUNDWOOD	0.000004326	g/TJ
2020	PCDD/F	1A2d	COAL (S=1.0%)	0.000004000	g/TJ

2020	PCDD/F	1A2d	CREOSOTED WOOD	0.000041250	g/TJ
2020	PCDD/F	1A2d	DEMOLITION WOOD	0.000041250	g/TJ
2020	PCDD/F	1A2d	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2d	FOREST RESIDUE CHIPS	0.000013977	g/TJ
2020	PCDD/F	1A2d	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2d	HEAVY FUEL OIL (normal, S>1%)	0.000003339	g/TJ
2020	PCDD/F	1A2d	HEAVY FUEL OIL (S<1%)	0.000000700	g/TJ
2020	PCDD/F	1A2d	HYDROGEN	0.000000500	g/TJ
2020	PCDD/F	1A2d	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A2d	INDUSTRIAL WASTE	0.000041250	g/TJ
2020	PCDD/F	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000000496	g/TJ
2020	PCDD/F	1A2d	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A2d	METHANOL	0.000016079	g/TJ
2020	PCDD/F	1A2d	MILLED PEAT	0.000012614	g/TJ
2020	PCDD/F	1A2d	NATURAL GAS	0.000001498	g/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	PCDD/F	1A2d	TRY	0.000021000	g/TJ
2020	PCDD/F	1A2d	OTHER FOSSIL SOLID	0.000004000	g/TJ
2020	PCDD/F	1A2d	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A2d	OTHER NON-FOSSIL LIQUID	0.000004803	g/TJ
2020	PCDD/F	1A2d	OTHER WOOD RESIDUE	0.000021000	g/TJ
2020	PCDD/F	1A2d	PACKAGING-DERIVED FUEL (PDF)	0.000628161	g/TJ
2020	PCDD/F	1A2d	PAPER	0.000000523	g/TJ
2020	PCDD/F	1A2d	PLASTIC WASTE	0.000041250	g/TJ
2020	PCDD/F	1A2d	RECOVERED FUEL (REF 1)	0.000025830	g/TJ
2020	PCDD/F	1A2d	RECOVERED FUEL (REF 2)	0.000041250	g/TJ
2020	PCDD/F	1A2d	RECOVERED WOOD	0.000027638	g/TJ
2020	PCDD/F	1A2d	RECYCLED AND WASTE OILS	0.000000400	g/TJ
2020	PCDD/F	1A2d	SAWDUST AND CUTTER CHIPS	0.000018511	g/TJ
2020	PCDD/F	1A2d	SULPHITE LIQUOR	0.000021000	g/TJ
2020	PCDD/F	1A2d	TALL PITCH AND OIL	0.000006006	g/TJ
2020	PCDD/F	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000003816	g/TJ
2020	PCDD/F	1A2d	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2e	ANIMAL-BASED FUELS	0.000021000	g/TJ
2020	PCDD/F	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2020	PCDD/F	1A2e	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2020	PCDD/F	1A2e	COAL (S=1.0%)	0.000004000	g/TJ
2020	PCDD/F	1A2e	COKE (S=1.0%)	0.000004000	g/TJ
2020	PCDD/F	1A2e	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2e	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2e	HEAVY FUEL OIL (normal, S>1%)	0.000000400	g/TJ
2020	PCDD/F	1A2e	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A2e	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A2e	MILLED PEAT	0.000017500	g/TJ
2020	PCDD/F	1A2e	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2e	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2e	OTHER NON-FOSSIL LIQUID	0.000000400	g/TJ
2020	PCDD/F	1A2e	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2020	PCDD/F	1A2e	PEAT PELLETS AND BRIQUETTES	0.000017500	g/TJ
2020	PCDD/F	1A2e	RECOVERED WOOD	0.000021000	g/TJ
2020	PCDD/F	1A2e	SAWDUST AND CUTTER CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2020	PCDD/F	1A2e	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2f	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2020	PCDD/F	1A2f	COAL (S=1.0%)	0.000003266	g/TJ
2020	PCDD/F	1A2f	COKE (S=1.0%)	0.000003051	g/TJ

2020	PCDD/F	1A2f	COKE OVEN GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2f	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2f	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2f	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A2f	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	INDUSTRIAL WASTE	0.000004633	g/TJ
2020	PCDD/F	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000000495	g/TJ
2020	PCDD/F	1A2f	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	OTHER FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	OTHER FOSSIL SOLID	0.000000449	g/TJ
2020	PCDD/F	1A2f	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A2f	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	OTHER WASTE	0.000004633	g/TJ
2020	PCDD/F	1A2f	OXYGEN STEEL FURNACE GAS	0.000000500	g/TJ
2020	PCDD/F	1A2f	PETROLEUM COKE	0.000000314	g/TJ
2020	PCDD/F	1A2f	RECOVERED FUEL (REF 1)	0.000002049	g/TJ
2020	PCDD/F	1A2f	RECOVERED WOOD	0.000021000	g/TJ
2020	PCDD/F	1A2f	RECYCLED AND WASTE OILS	0.000000370	g/TJ
2020	PCDD/F	1A2f	RUBBER WASTE	0.000004633	g/TJ
2020	PCDD/F	1A2f	SAWDUST AND CUTTER CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000001460	g/TJ
2020	PCDD/F	1A2gviii	BARK	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	CREOSOTED WOOD	0.000000559	g/TJ
2020	PCDD/F	1A2gviii	DEMOLITION WOOD	0.000007546	g/TJ
2020	PCDD/F	1A2gviii	DIESEL OIL (S=001%)	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	GASIFIED WASTE	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	HAZARDOUS WASTE	0.000000571	g/TJ
2020	PCDD/F	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	0.000000400	g/TJ
2020	PCDD/F	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000000385	g/TJ
2020	PCDD/F	1A2gviii	INDUSTRIAL BIOGAS	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	LANDFILL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.000000460	g/TJ
2020	PCDD/F	1A2gviii	LIQUID GAS	0.000019781	g/TJ
2020	PCDD/F	1A2gviii	MILLED PEAT	0.000013115	g/TJ
2020	PCDD/F	1A2gviii	MUNICIPAL WASTE - unsorted	0.000001282	g/TJ
2020	PCDD/F	1A2gviii	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2020	PCDD/F	1A2gviii	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2020	PCDD/F	1A2gviii	OTHER NON-FOSSIL LIQUID	0.000000400	g/TJ
2020	PCDD/F	1A2gviii	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	OTHER WASTE	0.000000537	g/TJ
2020	PCDD/F	1A2gviii	OTHER WOOD RESIDUE	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	PLASTIC WASTE	0.000000601	g/TJ
2020	PCDD/F	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	0.000000400	g/TJ
2020	PCDD/F	1A2gviii	RECOVERED FUEL (REF 2)	0.000041250	g/TJ
2020	PCDD/F	1A2gviii	RECOVERED WOOD	0.000009537	g/TJ
2020	PCDD/F	1A2gviii	RECYCLED AND WASTE OILS	0.000000006	g/TJ
2020	PCDD/F	1A2gviii	SALT TREATED WOOD	0.000000558	g/TJ
2020	PCDD/F	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000017099	g/TJ
2020	PCDD/F	1A2gviii	SOD PEAT	0.000017500	g/TJ

2020	PCDD/F	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000021000	g/TJ
2020	PCDD/F	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000020275	g/TJ
2020	PCDD/F	1A2gviii	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A3bi	DIESEL OIL (S=001%)	0.000010290	g/TJ
2020	PCDD/F	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000004003	g/TJ
2020	PCDD/F	1A3bii	DIESEL OIL (S=001%)	0.000012876	g/TJ
2020	PCDD/F	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000005191	g/TJ
2020	PCDD/F	1A3biii	DIESEL OIL (S=001%)	0.000001295	g/TJ
2020	PCDD/F	1A3biv	DIESEL OIL (S=001%)	0.000047173	g/TJ
2020	PCDD/F	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000010808	g/TJ
2020	PCDD/F	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000003018	g/TJ
2020	PCDD/F	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000011588	g/TJ
2020	PCDD/F	1A3ei	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A4ai	FOREST WOODFUEL	0.000021000	g/TJ
2020	PCDD/F	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2020	PCDD/F	1A4ai	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A4ai	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A4ai	SOD PEAT	0.000017500	g/TJ
2020	PCDD/F	1A4bi	COAL (S=1.0%)	0.000002000	g/TJ
2020	PCDD/F	1A4bi	FOREST WOODFUEL	0.000021000	g/TJ
2020	PCDD/F	1A4bi	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A4bi	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A4bi	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A4bi	PARAFFIN	0.000000500	g/TJ
2020	PCDD/F	1A4bi	SOD PEAT	0.000017500	g/TJ
2020	PCDD/F	1A4ci	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2020	PCDD/F	1A4ci	COAL (S=1.0%)	0.000004000	g/TJ
2020	PCDD/F	1A4ci	FOREST WOODFUEL	0.000021000	g/TJ
2020	PCDD/F	1A4ci	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2020	PCDD/F	1A4ci	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A4ci	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2020	PCDD/F	1A4ci	RECOVERED WOOD	0.000021000	g/TJ
2020	PCDD/F	1A4ci	SOD PEAT	0.000017500	g/TJ
2020	PCDD/F	1A4ci	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2020	PCDD/F	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000003009	g/TJ
2020	PCDD/F	1A5a	FOREST WOODFUEL	0.000021000	g/TJ
2020	PCDD/F	1A5a	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2020	PCDD/F	1A5a	LANDFILL GAS	0.000000500	g/TJ
2020	PCDD/F	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000000770	g/TJ
2020	PCDD/F	1A5a	LIQUID GAS	0.000000500	g/TJ
2020	PCDD/F	1A5a	NATURAL GAS	0.000000500	g/TJ
2020	PCDD/F	1A5a	OTHER PETROLEUM PRODUCTS	0.000000400	g/TJ

PAH-4 Implied emission factors in Finnish air pollutant inventory for 2020

2020	PAH-4	1A1a	0-FIBRE/BIOLOGICAL SLURRY	2.725429209	g/TJ
2020	PAH-4	1A1a	ANIMAL-BASED FUELS	2.441731782	g/TJ
2020	PAH-4	1A1a	BARK	2.584582524	g/TJ
2020	PAH-4	1A1a	CHIPS FROM ROUNDWOOD	2.327633196	g/TJ
2020	PAH-4	1A1a	COAL (S=1.0%)	0.007122162	g/TJ
2020	PAH-4	1A1a	CREOSOTED WOOD	2.500000000	g/TJ
2020	PAH-4	1A1a	DEINKING WASTE	2.500000000	g/TJ
2020	PAH-4	1A1a	DEMOLITION WOOD	2.460659463	g/TJ
2020	PAH-4	1A1a	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	2.700000000	g/TJ
2020	PAH-4	1A1a	FOREST RESIDUE CHIPS	2.352204422	g/TJ
2020	PAH-4	1A1a	GASOIL (FOR NON-ROAD USE)	2.851808877	g/TJ
2020	PAH-4	1A1a	HEAVY FUEL OIL (normal, S>1%)	2.883339485	g/TJ
2020	PAH-4	1A1a	HEAVY FUEL OIL (S<1%)	2.623500116	g/TJ
2020	PAH-4	1A1a	INDUSTRIAL WASTE	2.478977098	g/TJ
2020	PAH-4	1A1a	LIGHT FUEL OIL (S=0.0915%)	6.488087123	g/TJ
2020	PAH-4	1A1a	MILLED PEAT	0.984941232	g/TJ
2020	PAH-4	1A1a	MUNICIPAL WASTE - unsorted	27.961931524	g/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
			TRY	2.700000000	g/TJ
2020	PAH-4	1A1a	OTHER FOSSIL SOLID	0.012206729	g/TJ
2020	PAH-4	1A1a	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A1a	OTHER NON-FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A1a	OTHER NON-FOSSIL SOLID	2.697622824	g/TJ
2020	PAH-4	1A1a	OTHER WASTE	2.492309831	g/TJ
2020	PAH-4	1A1a	OTHER WOOD RESIDUE	2.699998721	g/TJ
2020	PAH-4	1A1a	PAPER	2.700000000	g/TJ
2020	PAH-4	1A1a	PLASTIC WASTE	2.199715685	g/TJ
2020	PAH-4	1A1a	PLYWOOD RESIDUE	2.700000000	g/TJ
2020	PAH-4	1A1a	RECOVERED FUEL (REF 1)	2.500000000	g/TJ
2020	PAH-4	1A1a	RECOVERED FUEL (REF 2)	2.506341952	g/TJ
2020	PAH-4	1A1a	RECOVERED FUEL (REF 3)	2.449827380	g/TJ
2020	PAH-4	1A1a	RECOVERED WOOD	2.436145784	g/TJ
2020	PAH-4	1A1a	RECYCLED AND WASTE OILS	2.800000000	g/TJ
2020	PAH-4	1A1a	REFUSE-DERIVED FUEL (RDF)	34.000000000	g/TJ
2020	PAH-4	1A1a	SAWDUST AND CUTTER CHIPS	2.581153758	g/TJ
2020	PAH-4	1A1a	SOD PEAT	1.000001523	g/TJ
2020	PAH-4	1A1a	TALL PITCH AND OIL	2.800000000	g/TJ
2020	PAH-4	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2.685742465	g/TJ
2020	PAH-4	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.136379603	g/TJ
2020	PAH-4	1A1a	WOOD RESIDUE CHIPS	2.572989882	g/TJ
2020	PAH-4	1A1b	COKE (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A1b	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A1b	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A1b	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A1b	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A1b	OTHER FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A1b	OTHER MEDIUM DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A1b	PETROLEUM COKE	0.012000000	g/TJ
2020	PAH-4	1A2a	COKE (S=1.0%)	0.000795928	g/TJ
2020	PAH-4	1A2a	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2a	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2a	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A2a	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ

2020	PAH-4	1A2a	OTHER FOSSIL SOLID	0.012000000	g/TJ
2020	PAH-4	1A2a	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2b	COAL (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2b	COKE (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2b	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2b	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A2b	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A2b	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A2c	COAL (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2c	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2c	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.463983297	g/TJ
2020	PAH-4	1A2c	HEAVY FUEL OIL (S<1%)	2.762393399	g/TJ
2020	PAH-4	1A2c	LIGHT FUEL OIL (S=0.0915%)	2.340529534	g/TJ
2020	PAH-4	1A2c	OTHER FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A2c	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A2c	PETROLEUM COKE	0.012000000	g/TJ
2020	PAH-4	1A2c	TALL PITCH AND OIL	2.800000000	g/TJ
2020	PAH-4	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2020	PAH-4	1A2d	0-FIBRE/BIOLOGICAL SLURRY	2.524006867	g/TJ
2020	PAH-4	1A2d	ANIMAL-BASED FUELS	2.700000001	g/TJ
2020	PAH-4	1A2d	BARK	2.144951975	g/TJ
2020	PAH-4	1A2d	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2020	PAH-4	1A2d	COAL (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2d	CREOSOTED WOOD	2.500000000	g/TJ
2020	PAH-4	1A2d	DEMOLITION WOOD	2.500000000	g/TJ
2020	PAH-4	1A2d	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2d	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2d	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2d	HEAVY FUEL OIL (normal, S>1%)	4.657213766	g/TJ
2020	PAH-4	1A2d	HEAVY FUEL OIL (S<1%)	2.990648114	g/TJ
2020	PAH-4	1A2d	INDUSTRIAL WASTE	2.500000000	g/TJ
2020	PAH-4	1A2d	LIGHT FUEL OIL (S=0.0915%)	2.986823412	g/TJ
2020	PAH-4	1A2d	METHANOL	14.090431699	g/TJ
2020	PAH-4	1A2d	MILLED PEAT	0.927025100	g/TJ
			OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUS-		
2020	PAH-4	1A2d	TRY	2.700000000	g/TJ
2020	PAH-4	1A2d	OTHER FOSSIL SOLID	0.012000000	g/TJ
2020	PAH-4	1A2d	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A2d	OTHER NON-FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A2d	OTHER WOOD RESIDUE	2.700000000	g/TJ
2020	PAH-4	1A2d	PACKAGING-DERIVED FUEL (PDF)	34.000000000	g/TJ
2020	PAH-4	1A2d	PAPER	2.700000000	g/TJ
2020	PAH-4	1A2d	PLASTIC WASTE	2.500000000	g/TJ
2020	PAH-4	1A2d	RECOVERED FUEL (REF 1)	2.500000000	g/TJ
2020	PAH-4	1A2d	RECOVERED FUEL (REF 2)	2.500000001	g/TJ
2020	PAH-4	1A2d	RECOVERED WOOD	2.700000000	g/TJ
2020	PAH-4	1A2d	RECYCLED AND WASTE OILS	2.800000000	g/TJ
2020	PAH-4	1A2d	SAWDUST AND CUTTER CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2d	SULPHITE LIQUOR	2.700000000	g/TJ
2020	PAH-4	1A2d	TALL PITCH AND OIL	2.613157727	g/TJ
2020	PAH-4	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	19.344352852	g/TJ
2020	PAH-4	1A2d	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2e	ANIMAL-BASED FUELS	2.700000000	g/TJ
2020	PAH-4	1A2e	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2020	PAH-4	1A2e	COAL (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2e	COKE (S=1.0%)	0.012000000	g/TJ

2020	PAH-4	1A2e	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2e	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2e	HEAVY FUEL OIL (normal, S>1%)	2.800000000	g/TJ
2020	PAH-4	1A2e	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A2e	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A2e	MILLED PEAT	1.000000000	g/TJ
2020	PAH-4	1A2e	OTHER NON-FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A2e	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2020	PAH-4	1A2e	PEAT PELLETS AND BRIQUETTES	1.000000000	g/TJ
2020	PAH-4	1A2e	RECOVERED WOOD	2.700000000	g/TJ
2020	PAH-4	1A2e	SAWDUST AND CUTTER CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2020	PAH-4	1A2e	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2f	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2020	PAH-4	1A2f	COAL (S=1.0%)	0.011181903	g/TJ
2020	PAH-4	1A2f	COKE (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A2f	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2f	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2f	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2f	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A2f	INDUSTRIAL WASTE	2.500000000	g/TJ
2020	PAH-4	1A2f	LIGHT FUEL OIL (S=0.0915%)	2.782130563	g/TJ
2020	PAH-4	1A2f	OTHER FOSSIL SOLID	0.012000000	g/TJ
2020	PAH-4	1A2f	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A2f	OTHER WASTE	2.500000000	g/TJ
2020	PAH-4	1A2f	PETROLEUM COKE	0.008387355	g/TJ
2020	PAH-4	1A2f	RECOVERED FUEL (REF 1)	1.105472198	g/TJ
2020	PAH-4	1A2f	RECOVERED WOOD	2.700000000	g/TJ
2020	PAH-4	1A2f	RECYCLED AND WASTE OILS	2.800000000	g/TJ
2020	PAH-4	1A2f	RUBBER WASTE	2.500000000	g/TJ
2020	PAH-4	1A2f	SAWDUST AND CUTTER CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2gvii	GASOIL (FOR NON-ROAD USE)	1.851851852	g/TJ
2020	PAH-4	1A2gvii	LIQUID GAS	1.739130435	g/TJ
2020	PAH-4	1A2gvii	MOTOR GASOLINE (S=0.001%)	1.913039966	g/TJ
2020	PAH-4	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	2.700000000	g/TJ
2020	PAH-4	1A2gviii	BARK	2.700000000	g/TJ
2020	PAH-4	1A2gviii	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2020	PAH-4	1A2gviii	CREOSOTED WOOD	2.500000000	g/TJ
2020	PAH-4	1A2gviii	DEMOLITION WOOD	2.500000000	g/TJ
2020	PAH-4	1A2gviii	DIESEL OIL (S=001%)	2.800000000	g/TJ
2020	PAH-4	1A2gviii	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2gviii	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A2gviii	HAZARDOUS WASTE	2.500000000	g/TJ
2020	PAH-4	1A2gviii	HEAVY FUEL OIL (normal, S>1%)	2.800000000	g/TJ
2020	PAH-4	1A2gviii	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A2gviii	MILLED PEAT	1.000000000	g/TJ
2020	PAH-4	1A2gviii	MUNICIPAL WASTE - unsorted	34.000000000	g/TJ
2020	PAH-4	1A2gviii	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2020	PAH-4	1A2gviii	OTHER NON-FOSSIL LIQUID	2.800000000	g/TJ
2020	PAH-4	1A2gviii	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2020	PAH-4	1A2gviii	OTHER WASTE	2.500000000	g/TJ
2020	PAH-4	1A2gviii	OTHER WOOD RESIDUE	2.700000000	g/TJ
2020	PAH-4	1A2gviii	PLASTIC WASTE	2.500000000	g/TJ
2020	PAH-4	1A2gviii	PURIFIED RECYCLED AND WASTE OILS	2.800000000	g/TJ
2020	PAH-4	1A2gviii	RECOVERED FUEL (REF 2)	2.500000000	g/TJ

2020	PAH-4	1A2gviii	RECOVERED WOOD	2.700000000	g/TJ
2020	PAH-4	1A2gviii	RECYCLED AND WASTE OILS	2.800000000	g/TJ
2020	PAH-4	1A2gviii	SALT TREATED WOOD	2.500000000	g/TJ
2020	PAH-4	1A2gviii	SAWDUST AND CUTTER CHIPS	2.700000000	g/TJ
2020	PAH-4	1A2gviii	SOD PEAT	1.000000000	g/TJ
2020	PAH-4	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2.700000000	g/TJ
2020	PAH-4	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2020	PAH-4	1A2gviii	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A3bi	DIESEL OIL (S=001%)	1.793949116	g/TJ
2020	PAH-4	1A3bi	MOTOR GASOLINE (S=0.001%)	0.627653996	g/TJ
2020	PAH-4	1A3bii	DIESEL OIL (S=001%)	1.329110738	g/TJ
2020	PAH-4	1A3bii	MOTOR GASOLINE (S=0.001%)	0.483042591	g/TJ
2020	PAH-4	1A3biii	DIESEL OIL (S=001%)	1.826651314	g/TJ
2020	PAH-4	1A3biv	DIESEL OIL (S=001%)	1.735773802	g/TJ
2020	PAH-4	1A3biv	MOTOR GASOLINE (S=0.001%)	0.832172385	g/TJ
2020	PAH-4	1A3c	GASOIL (FOR NON-ROAD USE)	1.851851852	g/TJ
2020	PAH-4	1A4ai	FOREST WOODFUEL	0.500000000	g/TJ
2020	PAH-4	1A4ai	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2020	PAH-4	1A4ai	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A4ai	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A4ai	SOD PEAT	1.000000000	g/TJ
2020	PAH-4	1A4aii	GASOIL (FOR NON-ROAD USE)	1.851851852	g/TJ
2020	PAH-4	1A4aii	MOTOR GASOLINE (S=0.001%)	1.913039966	g/TJ
2020	PAH-4	1A4bi	COAL (S=1.0%)	0.006000000	g/TJ
2020	PAH-4	1A4bi	FOREST WOODFUEL	349.692691288	g/TJ
2020	PAH-4	1A4bi	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A4bi	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A4bi	PARAFFIN	2.800000000	g/TJ
2020	PAH-4	1A4bi	SOD PEAT	1.000000000	g/TJ
2020	PAH-4	1A4bii	GASOIL (FOR NON-ROAD USE)	1.851851852	g/TJ
2020	PAH-4	1A4bii	MOTOR GASOLINE (S=0.001%)	1.913039966	g/TJ
2020	PAH-4	1A4ci	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2020	PAH-4	1A4ci	COAL (S=1.0%)	0.012000000	g/TJ
2020	PAH-4	1A4ci	FOREST WOODFUEL	0.500000000	g/TJ
2020	PAH-4	1A4ci	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A4ci	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2020	PAH-4	1A4ci	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2020	PAH-4	1A4ci	RECOVERED WOOD	2.700000000	g/TJ
2020	PAH-4	1A4ci	SOD PEAT	1.000000000	g/TJ
2020	PAH-4	1A4ci	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2020	PAH-4	1A4cii	GASOIL (FOR NON-ROAD USE)	1.851851852	g/TJ
2020	PAH-4	1A4cii	MOTOR GASOLINE (S=0.001%)	1.913039966	g/TJ
2020	PAH-4	1A5a	FOREST WOODFUEL	2.700000000	g/TJ
2020	PAH-4	1A5a	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2020	PAH-4	1A5a	LIGHT FUEL OIL (S=0.0915%)	2.822038144	g/TJ
2020	PAH-4	1A5a	OTHER PETROLEUM PRODUCTS	2.800000000	g/TJ

HCB Implied emission factors in Finnish air pollutant inventory for 2020

2020	HCB	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000005000	kg/TJ
2020	HCB	1A1a	BARK	0.000005000	kg/TJ
2020	HCB	1A1a	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2020	HCB	1A1a	COAL (S=1.0%)	0.000000007	kg/TJ
2020	HCB	1A1a	DEMOLITION WOOD	0.000005000	kg/TJ
2020	HCB	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000005000	kg/TJ
2020	HCB	1A1a	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A1a	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2020	HCB	1A1a	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A1a	PAPER	0.000005000	kg/TJ
2020	HCB	1A1a	PLYWOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A1a	RECOVERED WOOD	0.000005000	kg/TJ
2020	HCB	1A1a	SAWDUST AND CUTTER CHIPS	0.000005000	kg/TJ
2020	HCB	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2020	HCB	1A1a	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2a	COKE (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2a	OTHER FOSSIL SOLID	0.000000620	kg/TJ
2020	HCB	1A2a	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2b	COAL (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2b	COKE (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2c	COAL (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2020	HCB	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000005000	kg/TJ
2020	HCB	1A2d	BARK	0.000005000	kg/TJ
2020	HCB	1A2d	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2020	HCB	1A2d	COAL (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2d	DEMOLITION WOOD	0.000005000	kg/TJ
2020	HCB	1A2d	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2d	OTHER FOSSIL SOLID	0.000000620	kg/TJ
2020	HCB	1A2d	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A2d	PAPER	0.000005000	kg/TJ
2020	HCB	1A2d	RECOVERED WOOD	0.000005000	kg/TJ
2020	HCB	1A2d	SAWDUST AND CUTTER CHIPS	0.000005000	kg/TJ
2020	HCB	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A2d	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2e	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2020	HCB	1A2e	COAL (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2e	COKE (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2e	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2020	HCB	1A2e	RECOVERED WOOD	0.000005000	kg/TJ
2020	HCB	1A2e	SAWDUST AND CUTTER CHIPS	0.000005000	kg/TJ
2020	HCB	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2020	HCB	1A2e	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2f	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2020	HCB	1A2f	COAL (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2f	COKE (S=1.0%)	0.000000620	kg/TJ
2020	HCB	1A2f	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2f	OTHER FOSSIL SOLID	0.000000620	kg/TJ
2020	HCB	1A2f	RECOVERED WOOD	0.000005000	kg/TJ
2020	HCB	1A2f	SAWDUST AND CUTTER CHIPS	0.000005000	kg/TJ
2020	HCB	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000005000	kg/TJ
2020	HCB	1A2gviii	BARK	0.000004252	kg/TJ
2020	HCB	1A2gviii	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ

2020	HCB	1A2gviii	DEMOLITION WOOD	0.000005000	kg/TJ
2020	HCB	1A2gviii	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2020	HCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2020	HCB	1A2gviii	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A2gviii	RECOVERED WOOD	0.000005000	kg/TJ
2020	HCB	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000003957	kg/TJ
2020	HCB	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2020	HCB	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2020	HCB	1A2gviii	WOOD RESIDUE CHIPS	0.000005327	kg/TJ
2020	HCB	1A3bi	DIESEL OIL (S=001%)	0.000001402	kg/TJ
2020	HCB	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000001437	kg/TJ
2020	HCB	1A3bi	NATURAL GAS	0.000001207	kg/TJ
2020	HCB	1A3bii	DIESEL OIL (S=001%)	0.000001402	kg/TJ
2020	HCB	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000001435	kg/TJ
2020	HCB	1A3bii	NATURAL GAS	0.000001207	kg/TJ
2020	HCB	1A3biii	DIESEL OIL (S=001%)	0.000001402	kg/TJ
2020	HCB	1A3biii	NATURAL GAS	0.000001207	kg/TJ
2020	HCB	1A3biv	DIESEL OIL (S=001%)	0.000001356	kg/TJ
2020	HCB	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000001435	kg/TJ
2020	HCB	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000001858	kg/TJ
2020	HCB	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000003452	kg/TJ
2020	HCB	1A4ai	FOREST WOODFUEL	0.000005000	kg/TJ
2020	HCB	1A4bi	COAL (S=1.0%)	0.000009804	kg/TJ
2020	HCB	1A4bi	FOREST WOODFUEL	0.000005000	kg/TJ
2020	HCB	1A4ci	COAL (S=1.0%)	0.000019608	kg/TJ
2020	HCB	1A4ci	FOREST WOODFUEL	0.000005000	kg/TJ
2020	HCB	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000001852	kg/TJ
2020	HCB	1A5a	FOREST WOODFUEL	0.000001000	kg/TJ
2020	HCB	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000000166	kg/TJ

PCB Implied emission factors in Finnish air pollutant inventory for 2020

2020	PCB	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.003500000	g/TJ
2020	PCB	1A1a	BARK	0.003500000	g/TJ
2020	PCB	1A1a	CHIPS FROM ROUNDWOOD	0.003500000	g/TJ
2020	PCB	1A1a	COAL (S=1.0%)	0.000003300	g/TJ
2020	PCB	1A1a	DEMOLITION WOOD	0.003500000	g/TJ
2020	PCB	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.003500000	g/TJ
2020	PCB	1A1a	FOREST RESIDUE CHIPS	0.003500000	g/TJ
2020	PCB	1A1a	OTHER NON-FOSSIL SOLID	0.003500000	g/TJ
2020	PCB	1A1a	OTHER WOOD RESIDUE	0.003500000	g/TJ
2020	PCB	1A1a	PAPER	0.003500000	g/TJ
2020	PCB	1A1a	PLYWOOD RESIDUE	0.003500000	g/TJ
2020	PCB	1A1a	RECOVERED WOOD	0.003500000	g/TJ
2020	PCB	1A1a	SAWDUST AND CUTTER CHIPS	0.003500000	g/TJ
2020	PCB	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003500000	g/TJ
2020	PCB	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.003500000	g/TJ
2020	PCB	1A1a	WOOD RESIDUE CHIPS	0.003500000	g/TJ
2020	PCB	1A2a	COKE (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2a	OTHER FOSSIL SOLID	0.170000000	g/TJ
2020	PCB	1A2a	WOOD RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2b	COAL (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2b	COKE (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2c	COAL (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2020	PCB	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000060000	g/TJ
2020	PCB	1A2d	BARK	0.000060000	g/TJ
2020	PCB	1A2d	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2020	PCB	1A2d	COAL (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2d	DEMOLITION WOOD	0.000060000	g/TJ
2020	PCB	1A2d	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2d	OTHER FOSSIL SOLID	0.170000000	g/TJ
2020	PCB	1A2d	OTHER WOOD RESIDUE	0.000060000	g/TJ
2020	PCB	1A2d	PAPER	0.000060000	g/TJ
2020	PCB	1A2d	RECOVERED WOOD	0.000060000	g/TJ
2020	PCB	1A2d	SAWDUST AND CUTTER CHIPS	0.000060000	g/TJ
2020	PCB	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000060000	g/TJ
2020	PCB	1A2d	WOOD RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2e	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2020	PCB	1A2e	COAL (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2e	COKE (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2e	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2020	PCB	1A2e	RECOVERED WOOD	0.000060000	g/TJ
2020	PCB	1A2e	SAWDUST AND CUTTER CHIPS	0.000060000	g/TJ
2020	PCB	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2020	PCB	1A2e	WOOD RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2f	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2020	PCB	1A2f	COAL (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2f	COKE (S=1.0%)	0.170000000	g/TJ
2020	PCB	1A2f	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2f	OTHER FOSSIL SOLID	0.170000000	g/TJ
2020	PCB	1A2f	RECOVERED WOOD	0.000060000	g/TJ
2020	PCB	1A2f	SAWDUST AND CUTTER CHIPS	0.000060000	g/TJ
2020	PCB	1A2gviii	0-FIBRE/BIOLOGICAL SLURRY	0.000060000	g/TJ
2020	PCB	1A2gviii	BARK	0.000051026	g/TJ
2020	PCB	1A2gviii	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ

2020	PCB	1A2gviii	DEMOLITION WOOD	0.000060000	g/TJ
2020	PCB	1A2gviii	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2020	PCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2020	PCB	1A2gviii	OTHER WOOD RESIDUE	0.000060000	g/TJ
2020	PCB	1A2gviii	RECOVERED WOOD	0.000060000	g/TJ
2020	PCB	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000047488	g/TJ
2020	PCB	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000060000	g/TJ
2020	PCB	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2020	PCB	1A2gviii	WOOD RESIDUE CHIPS	0.000063921	g/TJ
2020	PCB	1A3bi	DIESEL OIL (S=001%)	0.000002060	g/TJ
2020	PCB	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000000801	g/TJ
2020	PCB	1A3bii	DIESEL OIL (S=001%)	0.000002582	g/TJ
2020	PCB	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000002780	g/TJ
2020	PCB	1A3biii	DIESEL OIL (S=001%)	0.000000259	g/TJ
2020	PCB	1A3biv	DIESEL OIL (S=001%)	0.000009435	g/TJ
2020	PCB	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000002738	g/TJ
2020	PCB	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000882318	g/TJ
2020	PCB	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.014053361	g/TJ
2020	PCB	1A4ai	FOREST WOODFUEL	0.060000000	g/TJ
2020	PCB	1A4ai	HEAVY FUEL OIL (S<1%)	0.000087591	g/TJ
2020	PCB	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000083347	g/TJ
2020	PCB	1A4ai	SOD PEAT	0.000053659	g/TJ
2020	PCB	1A4bi	COAL (S=1.0%)	0.000088235	g/TJ
2020	PCB	1A4bi	FOREST WOODFUEL	0.060000000	g/TJ
2020	PCB	1A4bi	HEAVY FUEL OIL (S<1%)	0.000087591	g/TJ
2020	PCB	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.000084309	g/TJ
2020	PCB	1A4bi	SOD PEAT	0.000073171	g/TJ
2020	PCB	1A4ci	COAL (S=1.0%)	0.000176471	g/TJ
2020	PCB	1A4ci	FOREST WOODFUEL	0.060000000	g/TJ
2020	PCB	1A4ci	HEAVY FUEL OIL (S<1%)	0.000087591	g/TJ
2020	PCB	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000017942	g/TJ
2020	PCB	1A4ci	SOD PEAT	0.000072598	g/TJ
2020	PCB	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000879630	g/TJ

Annex 2

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
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)/ double 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
Coal	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 > Päästörekkisterit > 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/F

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	PCDD/F-emission factors	
	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 terveystieteitä 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 > Päästörekitterit > 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		
	g/t	g/TJ	Source
Fuel			
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: Päästö tietojen tuottamismenetelmät - Energiantuotanto (10.6.2004) (www.ymparisto.fi > Yritykset ja yhteisöt > Päästöt > Päästörekisterit > Päästö tiedon tuottaminen > Aineistoa päästöjen määrittämiseen > Energiantuotanto). in Finnish

Fuel	Emission factors [$\mu\text{g}/\text{MJ}$]				
	no abatement	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 [$\mu\text{g}/\text{MJ}$]				
	no abatement	cyclone	washer	electric filter	electric filter + desulphuration

Nickel (Ni)

Fuel	Emission factors [$\mu\text{g}/\text{MJ}$]				
	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 [$\mu\text{g}/\text{MJ}$]				
	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 [$\mu\text{g}/\text{MJ}$]				
	Heavy fuel oil	12	6	-	-
Peat	330	130	43	8	
Coal ⁽¹⁾	1500	300	195	84	12
Wood	700	175	175	54	

(1) large variation between facilities although factors are based on measurements

Vanadium (V)

Fuel	Emission factors [$\mu\text{g}/\text{MJ}$]				
	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 .

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- 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.
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Annex 3

Basis of Estimation of Emissions from Transport

Table F4: Basis for estimating emissions from mobile sources.

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 4

Net caloric values and sulphur contents of fuels

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.

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 5

QA/QC Tools

Updated March 2022 (JM)

QA/QC Tools for the Finnish Air Pollutant Emissions Inventory

This Annex of the IIR describes the components of the QA/QC toolset specifically designed for the inventory process.

The developed toolset consists of a tool for analysing and compiling NFR tables and several more specified investigation tools for investigating data content of air emission database IPTJ. The tools were mostly developed with Microsoft Excel and SQL Server Management Studio. Methods described in this chapter do not replace or remove any previously existing QA/QC routines, which include procedures described in the EMEP/EEA Guidebooks.

1.1 NFR Compilation tool

The NFR compilation tool provides means to compile, analyse and correct NFR table files. It is designed to be used in sync with the latest reporting sheets but is also suitable for performing the same procedures on previously submitted files or submission files of other nations. It also provides means for notation key management.

2.1.1 Time series from reporting sheets

The user is able to retrieve time series for all pollutants and NFR categories as well as their contributing rows from IPTJ. The emission intensity is visualized with conditional formatting and the following automatic check-ups are made:

- Strongly deviating values
- Gaps in series
- Inconsistency in notation keys
- Sudden drops or increases in emissions.
- Linear estimates for missing values (feature not used in inventory)

The following diagram explains the compilation of time series from the NFR reporting sheet. User selects a cell and with a quick key the time series for the corresponding pollutant and category is collected. The following examples are for demonstration purposes only and cover only the years 1980-1996. Some artificial errors are also included in order to present examples of the check-ups.

1A1a	NOx	Notes
1980	129.228	The value deviates over 100 % from the series median.
1981	109.120	
1982	104.120	
1983	93.436	
1984	88.553	
1985		Gap in series. Linear estimation: 96,5075
1986	104.462	
1987	112.601	
1988	113.043	
1989	116.964	
1990	59.539	A drop of 49,1 % in emission levels. Check continuity.
1991	58.921	
1992	47.001	
1993	51.560	
1994	51.819	
1995	39.101	Possibly erroneous value in set.
1996	46.389	
...	...	

The expert can also loop the procedure over all pollutants and create a compilation table of all pollutants for the selected category (NFR category or national totals).. Relative standard deviation is calculated and an index value is calculated to estimate the reliability of the series. Any changes in values or notation keys can be immediately exported back to the reporting sheet.

Table 1 – Example of a time series compilation table after looping through all pollutants. Pollutants expand horizontally and years vertically.

NA-TIONAL TOTAL	NOx (as NO2)	NMVOC	SOx (as SO2)	NH3	PM2.5	PM10	TSP	BC	CO	...
1980	303.825	NE	583.828	34.272	NE	NE	NE	NE	NE	...
1981	283.975	NE	533.830	34.759	NE	NE	NE	NE	NE	...
1982	279.406	NE	483.828	35.334	NE	NE	NE	NE	NE	...
1983	270.513	NE	371.831	35.522	NE	NE	NE	NE	NE	...
1984	266.352	NE	367.830	35.619	NE	NE	IE	NE	NE	...
1985	284.028	NE	381.832	35.636	NE	NE	NE	NE	NE	...
1986	285.889	NE	330.831	35.348	NE	NE	NE	NE	NE	...
1987	297.204	229.852	327.834	34.630	NE	NE	NE	NE	NE	...
1988	302.181	264.123	301.838	33.998	NE	NE	NE	NE	NE	...
1989	310.009	258.209	243.844	12.022	NE	NE	NE	NE	NE	...
1990	305.629	233.472	248.544	33.630	48.366	72.694	98.952	10.212	720.735	...
1991	NA	219.563	205.275	31.641	43.445	65.150	85.630	9.708	688.077	...
1992	275.374	214.625	155.967	30.767	39.899	59.213	77.930	9.441	667.862	...
1993	277.728	207.533	137.396	31.167	37.033	55.526	72.983	9.225	654.655	...
1994	277.596	205.741	122.529	32.106	36.375	54.637	72.888	9.105	636.460	...
1995	258.139	200.357	104.442	32.417	34.726	51.327	68.062	8.859	629.857	...
1996	262.178	193.999	108.994	33.432	33.842	49.945	65.863	8.577	620.323	...
:	:	:	:	:	:	:	:	:	:	...
RSD (%)	22.2 %	31.4 %	86.4 %	4.8 %	24.3 %	21.5 %	19.3 %	23.4 %	24.2 %	...

* RSD, Relative Standard Deviation

2.1.2 Notation key management

The compilation table is especially suitable for notation key management, as all data can be imported and exported to and from the NFR submission file. The tool allows notation key management in many different ways:

- Directly in the NFR sheet
 - The notation key of the selected cell can be multiplied for all years or a prompted range of years with dedicated quick keys.
- In the compilation table
 - The compilation table makes it easy to spot and correct inconsistencies in notation keys over the time series. It also enables mass editing of NK's for example when changes in categorization occurs.
- In the time series analyzer

VBA-assisted lookup functions deliver the modified data in their corresponding places in the NFR sheet.

2.1.3 Compiling sheets for new inventory year

The tool also allows instant delivery of emission values from IPTJ to the reporting sheet. The expert selects the current inventory year, and emission values are retrieved from the database using an SQL-assisted PowerPivot query. Notation keys are retrieved from the corresponding year of the previously selected NFR reference file.

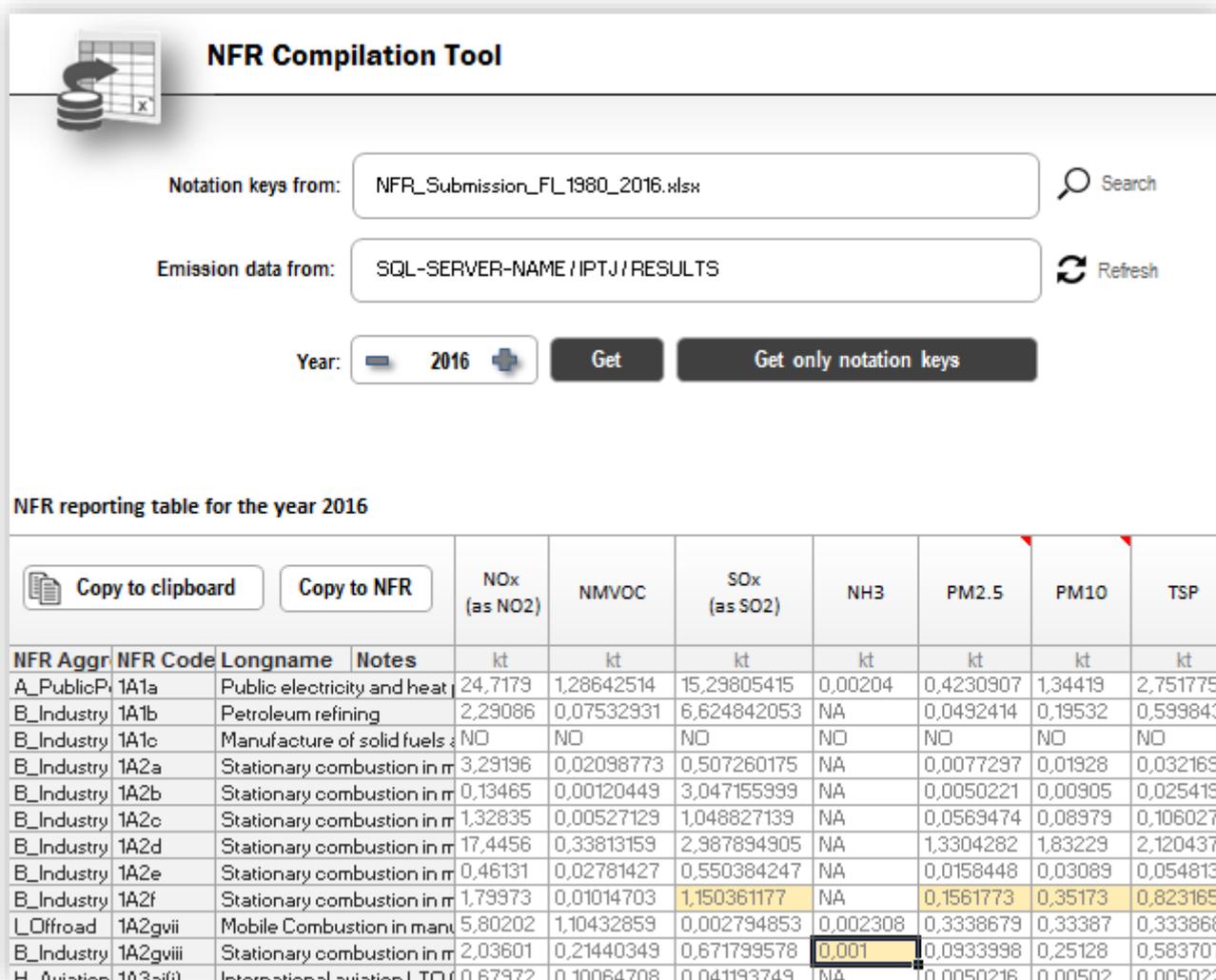


Figure 1 - A screenshot of the NFR compilation tool

The compilation tool performs checks and compares data and labels the cell with individual colors when:

- Emission value is x % higher than in previous year*
- Emission value is x % less than in previous year*
- If $BC > PM2.5 > PM10 > TSP$
- Sum of PAH's doesn't equal to Total 1-4,
- Emission value is 10 times higher, or a value is missing where previously reported
- Zero values
- Values where IPTJ content is newer than in the reporting sheet

* x is user adjustable.

The data collected by the compilation tool can be exported to the reporting sheet with a one click solution. It is also possible to roll through all years in order to keep IPTJ content always in unison with reporting sheets.

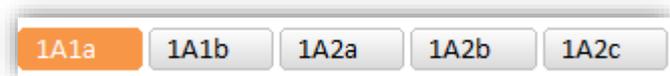
1.2 Tools for data analysis, compilation and management

To expand the scope of investigation limited by the main tool, several more specified tools were constructed by using the same technologies and disciplines to reveal issues of more specific types and levels of detail. These tools include:

- Time series analysis at six different levels of detail:
 - Point level (a facility can have multiple points)
 - Facility level (a SNAP category typically consists of multiple facilities)

- SNAP categorization (SNAP category is usually a subset of an NFR category)
- NFR categorization
- By fuel types
- Total emissions
- Tool to sort all point sources with highest contribution to overall emissions
- Tool to investigate key sources per pollutant
- A query to calculate implied emission factors
- A query to investigate the consistency of categories between different sources
- NULL-finder to reveal rows with missing essential information, such as emission values or categorizations.
- A query to find duplicate rows
- A query to manually back-up the main results table before major changes
- A routine to reveal point level gaps in time series and to estimate the combined effect of them.

The tools above connect to IPTJ and are able to utilize the latest inventory data. They connect to IPTJ via an ODBC connection and they utilize a combination techniques native to Microsoft Excel, PowerPivot and SQL. In some cases the tools are enhanced with VBA. By using PowerPivot for data retrieval, the upper limit of rows rarely becomes an issue in data management. A typical control element is a PivotTable slicer.



2.1.4 Time series analysis for individual boilers or processes

The tool compiles a table by dimensions of *year x pollutant* after selecting a source. The tool alerts on years that are completely missing and when the maximum emission value deviates over ten times from the series median for any pollutant. The results are enhanced with conditional formatting to highlight the relative differences in emission values. Gaps in emission values are also displayed per pollutant.

Table 2 – Example of time series by point result sheet. Pollutants expand horizontally and years vertically.

RSD (%)	14.3 %	14.4 %	26.3 %	NA	...
----------------	--------	--------	--------	-----------	-----

Year	NOx as NO2	NMVOC	SOx as SO2	NH3	...
1990	58.828	4.54E-01	76.066		...
1991	58.760	4.29E-01	68.817		...
1992	46.651	4.12E-01	49.151		...
1993	51.175		49.486		...
1994	51.530	5.25E-01	46.905		...
1995	38.855	5.38E-01	36.616		...
1996	46.157	6.13E-01	45.303		...
⋮	⋮	⋮	⋮	⋮	...

2.1.5 Time series analysis at facility level

The expert selects a pollutant to investigate. This forms a table with the dimensions of *facility x year*. The tool groups all point sources (e.g. individual boilers) into their corresponding facilities. The processes are described in the greatest detail possible. The expert can now browse through time series of all facilities and quickly investigate which events (e.g. changes in processes) actually contribute to the varying emission values. It also reveals if a point ID has changed during the

time series, thus patching the shortcomings of TS investigation by point ID only. The expert can filter the dataset by NFR category or certain range of years.

2.1.6 Time series by NFR and SNAP

In comparison to NFR categorization SNAP categorization is a more detailed and in IPTJ content in all cases a subset of an NFR category. The tools are identical to each other except by the controls for categorization. The tools flags missing years and if a pollutant maximum value is ten times greater than the series median.

2.1.7 Time series by fuel

The tool compiles time series by either a specific fuel or fuel groups (e.g. liquid fuels) by selecting the desired set from control slicers. These selections can be made independently of each other. Similarly to the previous tool, relative standard deviation for each pollutant is calculated and flagged if the maximum value is ten times greater than the series median.

2.1.8 Key source analysis

Categories that contribute to 80 % of emissions per pollutant are considered as key categories. The Approach 1 key categories according to the level of emissions can be quickly retrieved for all pollutants and years by using control slicers. The table calculates the sector sum, percentage of total emissions and cumulative percentage of emissions in an inclining order. Dataset can be filtered by NFR categories, for example to exclude NFR sheet memo items from key category analysis.

Year

1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
2008	2009	2010	2011	2012	2013	2014	2015	2016	9999				

Pollutant

	As	BC	Cd	CO	Cr	Cu	HCB
Hg	NH3	Ni	NMVOG	NOx (as N...	PAHs	Pb	PCBs
PCDD/PC...	PCP	PM1	PM10	PM2.5	Se	SOx (as S...	TSP
Zn	benzo(a)...	benzo(b) fl...	benzo(k) fl...	HCH	Indeno(1,...	PCDD	PCDF

NFR	Sector sum	Percentage of total	Cumulative percentage	Key category?
1A1a	15 298.05	38.04 %	38.04 %	Yes
1A1b	6 624.84	16.47 %	54.51 %	Yes
1A2b	3 047.16	7.58 %	62.08 %	Yes
1A2d	2 987.89	7.43 %	69.51 %	Yes
2B10a	1 737.09	4.32 %	73.83 %	Yes
1A5a	1 256.96	3.13 %	76.96 %	Yes
1A2f	1 150.36	2.86 %	79.82 %	Yes
1A4ai	1 088.00	2.71 %	82.52 %	Yes
1A2c	1 048.83	2.61 %	85.13 %	
1A4bi	1 007.76	2.51 %	87.64 %	
2H1	960.19	2.39 %	90.02 %	
2C1	743.57	1.85 %	91.87 %	
1A4ci	705.79	1.75 %	93.63 %	
1A2gviii	671.80	1.67 %	95.30 %	

1A2e	550.38	1.37 %	96.66 %
1A2a	507.26	1.26 %	97.93 %
1A3ai(ii)	480.28	1.19 %	99.12 %
⋮	⋮	⋮	⋮

Checking gaps and discontinuity in emissions of energy sector point sources

This chapter explains the search of gaps and discontinuities in the energy sector emission data that was carried out during the time series update of 2017 and 2018. Many of the observations described here have since been corrected and are not present in the latest inventories.

1.3 Search of discontinuities

The routine checks for gaps in time-series where the following conditions are met:

- a point has more than one entry in time series per pollutant
- missing value exist in a range between two existing values (i.e. if a missing value exists in the beginning or the end of the series, it will not be revealed)
- Series connects the same point and pollutant

The routine also marks the last known values before and ahead of the found gap. A gap can therefore consist of more than one year, and the duration of the gap is recorded.

The check-up formula translates as follows:

If $y_i \neq y_{i-1} + 1$, then print for the row i : "the values for the years $y_{i-1} + 1 - y_i - 1$ missing"

where,

i = row index

y = year

y_{i-1} = year of the previous row

$y_i - 1$ = actual previous year

If the previous condition is met, the start point of the gap is filled to the cell y_{i-1} . The print out of found gap simultaneously marks the end point of the gap. These remarks can be used when referencing data in further investigations.

Table 3 – An example of the printouts for a point with missing values

Point ID	Emission	Year	Pollutant (ID)	Printout
12121	0.3402	2003	24	First in series (not checked)
12121	0.335016	2004	24	
12121	0.3402	2005	24	
12121	0.335016	2006	24	Start point of a gap
12121	0.276	2009	24	The values for the years 2007-2008 missing
12121	0.21744	2010	24	
12121	0.1052062	2011	24	
12121	0.03562	2012	24	Last in series (not checked)

2.1.9 Results

The method was able to programmatically reveal 518 gaps in series which would contribute to 0.06 % in relation to the count of rows examined. The method does not disclose the reason for the missing value. Many or most of these might be valid gaps due to e.g. stoppage of the plant. The table below presents for selected pollutants the expectable maximum of possible emissions if the gaps would be filled with the value of the closest year. The overall sums are negligible.

Table 4 – Count of found gaps and estimation of the potential maximum of missing emissions in relation the overall emissions

Pollutant	Pollutant ID	Estimate of sum of miss-	Percent in relation to	Count of miss-
As (kg)	8	0.270	0.001 %	17

Cd (kg)	20	0.660	0.004 %	17
CO (t)	24	63.690	0.006 %	28
Cr (kg)	31	4.541	0.001 %	17
Cu (kg)	35	6.689	0.004 %	18
Hg (kg)	47	0.066	0.001 %	17
Ni (kg)	63	25.114	0.009 %	17
Pb (kg)	79	7.496	0.002 %	17
SOx (as SO2) (t)	97	24.012	0.002 %	22
Zn (kg)	112	90.257	0.009 %	18
NOx (as NO2) (t)	314	31.279	0.002 %	28
PCDD/ PCDF (t)	1043	0.003	0.004 %	27
TSP (t)	1047	29.808	0.010 %	30
NM VOC (t)	1064	2.572	0.008 %	28
PAHs (g)	1065	574.868	0.008 %	32
PM10 (t)	1091	10.455	0.006 %	30
PM2.5 (t)	2591	3.817	0.004 %	30

1.4 Interpretation of results

Out of the combined set of nearly two million rows of emission data, 518 meaningful events of discontinuity were observed. In relation to the whole dataset, the time series for the boilers under investigation is 99,97 % complete, and a notable share of the remaining 0,03 % might be explained by valid reasons.

Annex 6

Uncertainty Analysis

Updated March 2022 (TF)

Uncertainty analysis to the 2022 submission, 2020 data

1 Methodology

Changes in chapter	
March 2021	TF

The uncertainty analysis for emission data is carried out following the Approach 1 methodology presented in the EMEP/EEA emission inventory guidebook 2019. The Approach 1 comprise estimation of uncertainties using the error propagation equations, and simple combination of uncertainties by source category to estimate overall uncertainty for one year and the uncertainty in the trend. The uncertainties of the input parameters (activity data and emission factors) 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. In the case of emissions reported by the plants, the total uncertainty of the reported emission is determined instead of separate uncertainties for AD and EF. The fuel use uncertainties are the same that Statistics Finland uses in the UC analysis for the Finnish greenhouse gas inventory. 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.

1.1 Uncertainties by pollutants

Changes in chapter	
March 2022	TF

The results of the Approach 1 uncertainty analysis are presented in this section. The results are presented by pollutant and at the bottom of each table information on total emissions and total uncertainty in the inventory are given, both for the level and for the trend.

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NOx	1A1a	Biomass	1.012	7.131	8.6	50.0	50.7	11.782	604.777	1.7
NOx	1A1a	Gaseous	8.866	1.389	9.4	50.0	50.9	0.450	-84.328	0.3
NOx	1A1a	Liquid	3.795	0.478	8.4	50.0	50.7	0.053	-87.413	0.1
NOx	1A1a	Other	0.006	1.366	10.0	50.0	51.0	0.437	22823.729	0.3
NOx	1A1a	Peat	9.791	3.461	8.1	50.0	50.6	2.766	-64.654	0.8
NOx	1A1a	Solid	36.204	2.345	10.0	50.0	51.0	1.287	-93.523	0.6
NOx	1A1b	Gaseous	2.857	1.657	10.0	50.0	51.0	0.643	-41.982	0.4
NOx	1A1b	Liquid	0.232	0.112	10.0	50.0	51.0	0.003	-51.972	0.0
NOx	1A1b	Solid	0.231	0.092	10.0		10.0	0.000	-60.144	0.0
NOx	1A2a	Biomass		0.003	10.0		10.0	0.000	NA	0.0
NOx	1A2a	Gaseous	1.090	2.402	10.0	50.0	51.0	1.351	120.413	0.6
NOx	1A2a	Liquid	0.316	0.015	8.5	50.0	50.7	0.000	-95.305	0.0
NOx	1A2a	Solid	1.661	0.489	10.0		10.0	0.002	-70.541	0.0
NOx	1A2b	Gaseous	0.036	0.032	8.5	50.0	50.7	0.000	-10.088	0.0
NOx	1A2b	Liquid	0.205	0.129	9.6	50.0	50.9	0.004	-36.707	0.0
NOx	1A2b	Solid	0.422	0.039	9.5	50.0	50.9	0.000	-90.668	0.0
NOx	1A2c	Biomass	0.062	0.000	4.5	50.0	50.2	0.000	-99.605	0.0
NOx	1A2c	Gaseous	0.707	0.507	9.8	50.0	51.0	0.060	-28.210	0.1
NOx	1A2c	Liquid	0.713	0.812	9.9	50.0	51.0	0.154	13.843	0.2
NOx	1A2c	Solid	0.346	0.000	8.7	50.0	50.7	0.000	-99.964	0.0
NOx	1A2d	Biomass	8.474	12.153	10.0	50.0	51.0	34.559	43.408	2.9
NOx	1A2d	Gaseous	3.423	1.191	9.0	50.0	50.8	0.330	-65.198	0.3
NOx	1A2d	Liquid	2.290	1.029	10.0	50.0	51.0	0.248	-55.077	0.2
NOx	1A2d	Other	0.044	0.147	9.9	50.0	51.0	0.005	234.005	0.0
NOx	1A2d	Peat	1.476	0.755	10.0	50.0	51.0	0.133	-48.864	0.2
NOx	1A2d	Solid	2.455	0.038	10.0		10.0	0.000	-98.442	0.0
NOx	1A2e	Biomass	0.031	0.040	7.6	50.0	50.6	0.000	25.680	0.0
NOx	1A2e	Gaseous	0.090	0.025	6.3	50.0	50.4	0.000	-72.384	0.0
NOx	1A2e	Liquid	0.661	0.065	6.7	50.0	50.5	0.001	-90.190	0.0
NOx	1A2e	Other	0.001	0.005	9.1	50.0	50.8	0.000	905.436	0.0
NOx	1A2e	Peat	0.165	0.154	10.0		10.0	0.000	-6.610	0.0
NOx	1A2e	Solid	0.247	0.049	9.5	50.0	50.9	0.001	-80.064	0.0
NOx	1A2f	Biomass	0.000	0.019	10.0		10.0	0.000	7969.180	0.0
NOx	1A2f	Gaseous	0.350	0.318	6.2	50.0	50.4	0.023	-9.283	0.1
NOx	1A2f	Liquid	0.575	0.250	4.3	50.0	50.2	0.014	-56.544	0.1

NOx	1A2f	Other	0.580	0.384	10.0		10.0	0.001	-33.830	0.0
NOx	1A2f	Solid	3.724	1.228	10.0		10.0	0.014	-67.024	0.1
NOx	1A2gvii	Gaseous	0.164	0.086	5.0	50.0	50.2	0.002	-47.508	0.0
NOx	1A2gvii	Liquid	12.486	5.238	5.0	50.0	50.2	6.235	-58.054	1.2
NOx	1A2gviii	Biomass	0.803	0.865	7.1	50.0	50.5	0.172	7.740	0.2
NOx	1A2gviii	Gaseous	0.107	0.221	8.6	50.0	50.7	0.011	107.341	0.1
NOx	1A2gviii	Liquid	1.294	0.297	7.2	50.0	50.5	0.020	-77.074	0.1
NOx	1A2gviii	Other	0.148	0.466	10.0		10.0	0.002	215.476	0.0
NOx	1A2gviii	Peat	0.046	0.075	9.9	50.0	51.0	0.001	62.718	0.0
NOx	1A3ai(i)	Liquid	0.251	0.295	5.0	50.0	50.2	0.020	17.725	0.1
NOx	1A3aii(i)	Liquid	0.311	0.074	4.9	50.0	50.2	0.001	-76.266	0.0
NOx	1A3bi	Diesel oil	6.783	8.612	1.0	50.0	50.0	16.700	26.960	2.0
NOx	1A3bi	Gaseous		0.006	3.0	50.0	50.1	0.000	NA	0.0
NOx	1A3bi	Gasoline	62.636	2.250	2.0	50.0	50.0	1.141	-96.408	0.5
NOx	1A3bii	Diesel oil	4.439	3.969	1.0	50.0	50.0	3.548	-10.580	0.9
NOx	1A3bii	Gaseous		0.001	3.0	50.0	50.1	0.000	NA	0.0
NOx	1A3bii	Gasoline	1.532	0.086	2.0	50.0	50.0	0.002	-94.405	0.0
NOx	1A3biii	Diesel oil	58.866	9.256	1.0	50.0	50.0	19.289	-84.277	2.1
NOx	1A3biii	Gaseous		0.011	3.0	50.0	50.1	0.000	NA	0.0
NOx	1A3biv	Diesel oil		0.038	1.0	50.0	50.0	0.000	NA	0.0
NOx	1A3biv	Gasoline	0.065	0.156	2.0	50.0	50.0	0.005	138.565	0.0
NOx	1A3c	Liquid	4.212	1.379	2.0	50.0	50.0	0.429	-67.263	0.3
NOx	1A3dii	Liquid	9.130	4.757	8.5	50.0	50.7	5.240	-47.895	1.1
NOx	1A3ei	Gaseous	0.009	0.001	10.0	50.0	51.0	0.000	-87.438	0.0
NOx	1A4ai	Biomass	0.156	0.230	20.0	50.0	53.9	0.014	47.574	0.1
NOx	1A4ai	Gaseous	0.043	0.050	9.7	50.0	50.9	0.001	17.062	0.0
NOx	1A4ai	Liquid	2.314	0.811	11.9	50.0	51.4	0.156	-64.969	0.2
NOx	1A4ai	Peat	0.015	0.011	15.0	50.0	52.2	0.000	-23.625	0.0
NOx	1A4aii	Liquid	5.216	1.251	12.8	50.0	51.6	0.375	-76.015	0.3
NOx	1A4bi	Biomass	3.303	3.788	20.0	50.0	53.9	3.747	14.689	0.9
NOx	1A4bi	Gaseous	0.039	0.055	9.5	50.0	50.9	0.001	39.603	0.0
NOx	1A4bi	Liquid	3.105	0.743	15.0	50.0	52.2	0.135	-76.060	0.2
NOx	1A4bi	Other	0.003	0.000	10.0	50.0	51.0	0.000	-97.674	0.0
NOx	1A4bi	Peat	0.065	0.014	15.0	50.0	52.2	0.000	-78.462	0.0
NOx	1A4bi	Solid	0.037	0.000	20.0	50.0	53.9	0.000	-99.459	0.0
NOx	1A4bii	Liquid	0.396	0.884	11.7	50.0	51.4	0.186	123.280	0.2
NOx	1A4ci	Biomass	0.520	0.600	19.7	50.0	53.8	0.094	15.360	0.1
NOx	1A4ci	Gaseous	0.061	0.006	30.0	50.0	58.3	0.000	-90.894	0.0
NOx	1A4ci	Liquid	0.739	0.353	14.3	50.0	52.0	0.030	-52.246	0.1
NOx	1A4ci	Peat	0.040	0.129	10.0	50.0	51.0	0.004	222.504	0.0
NOx	1A4ci	Solid	0.024	0.013	20.0	50.0	53.9	0.000	-46.077	0.0
NOx	1A4cii	Liquid	12.825	2.396	14.5	50.0	52.1	1.400	-81.320	0.6
NOx	1A4ciii	Liquid	3.580	1.719	15.0	50.0	52.2	0.725	-51.985	0.4
NOx	1A5a	Biomass	0.032	1.646	10.0	50.0	51.0	0.634	5036.270	0.4
NOx	1A5a	Gaseous	0.247	0.355	18.0	50.0	53.1	0.032	43.851	0.1
NOx	1A5a	Liquid	2.047	1.606	15.1	50.0	52.2	0.633	-21.580	0.4

NOx	2B10a		0.061	0.149	22.7		22.7	0.001	143.371	0.0
NOx	2B2		0.744	0.428	20.0		20.0	0.007	-42.496	0.0
NOx	2G		0.010	0.004	35.0	100.0	105.9	0.000	-63.124	0.0
NOx	3B1a		0.156	0.045	3.0	200.0	200.0	0.007	-70.804	0.0
NOx	3B1b		0.135	0.147	3.0	200.0	200.0	0.078	9.383	0.1
NOx	3B2		0.006	0.008	5.0	200.0	200.1	0.000	39.107	0.0
NOx	3B3		0.068	0.005	5.0	200.0	200.1	0.000	-92.107	0.0
NOx	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	-5.635	0.0
NOx	3B4e		0.016	0.031	5.0	200.0	200.1	0.003	90.364	0.0
NOx	3B4gi		0.052	0.047	5.0	200.0	200.1	0.008	-10.607	0.0
NOx	3B4gii		0.027	0.087	5.0	200.0	200.1	0.028	221.809	0.1
NOx	3B4giii		0.001	0.008	5.0	200.0	200.1	0.000	622.835	0.0
NOx	3B4giv		0.007	0.003	5.0	200.0	200.1	0.000	-50.108	0.0
NOx	3B4h		0.041	0.034	5.0	200.0	200.1	0.004	-16.634	0.0
NOx	3Da1		9.143	5.575	10.0	100.0	100.5	28.265	-39.022	2.6
NOx	3Da2a		3.147	2.943	45.0	200.0	205.0	32.770	-6.477	2.8
NOx	3Da2b		0.063	0.110	30.0	200.0	202.2	0.045	74.091	0.1
NOx	3Da2c		0.000	0.000	45.0	160.0	166.2	0.000	198.759	0.0
NOx	3Da3		0.727	0.595	45.0	200.0	205.0	1.337	-18.234	0.6
NOx	3F		0.113	0.062	30.0	100.0	104.4	0.004	-44.845	0.0
Total			306.550	105.392			13.3		-65.620	6.5

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NMVOC	1A1a	Biomass	0.109	0.837	6.2	80.0	80.2	0.630	667.875	0.4
NMVOC	1A1a	Gaseous	0.042	0.072	22.1	80.0	83.0	0.005	71.797	0.0
NMVOC	1A1a	Liquid	0.027	0.008	3.8	80.0	80.1	0.000	-69.554	0.0
NMVOC	1A1a	Other	0.001	0.266	10.5	80.0	80.7	0.065	25724.948	0.1
NMVOC	1A1a	Peat	0.199	0.154	5.5	80.0	80.2	0.021	-22.848	0.1
NMVOC	1A1a	Solid	0.117	0.075	26.2	80.0	84.2	0.006	-36.425	0.0
NMVOC	1A1b	Gaseous	0.009	0.056	10.9	80.0	80.7	0.003	500.006	0.0
NMVOC	1A1b	Liquid	0.002	0.013	30.0	80.0	85.4	0.000	571.889	0.0
NMVOC	1A1b	Solid		0.015	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
NMVOC	1A2a	Gaseous	0.124	0.014	1.9	80.0	80.0	0.000	-88.829	0.0
NMVOC	1A2a	Liquid	0.002	0.000	2.0	80.0	80.0	0.000	-88.621	0.0

NMVOC	1A2b	Gaseous	0.000	0.000	15.6	80.0	81.5	0.000	161.596	0.0
NMVOC	1A2b	Liquid	0.001	0.001	3.0	80.0	80.1	0.000	-44.542	0.0
NMVOC	1A2b	Solid	0.000	0.000	5.0	80.0	80.2	0.000	-58.681	0.0
NMVOC	1A2c	Biomass	0.002	0.000	5.0	80.0	80.2	0.000	-88.100	0.0
NMVOC	1A2c	Gaseous	0.003	0.006	6.4	80.0	80.3	0.000	89.281	0.0
NMVOC	1A2c	Liquid	0.003	0.001	4.3	80.0	80.1	0.000	-59.712	0.0
NMVOC	1A2c	Solid	0.004	0.000	5.0	80.0	80.2	0.000	-99.997	0.0
NMVOC	1A2d	Biomass	0.424	0.290	2.1	80.0	80.0	0.075	-31.693	0.1
NMVOC	1A2d	Gaseous	0.077	0.018	3.0	80.0	80.1	0.000	-76.491	0.0
NMVOC	1A2d	Liquid	0.180	0.015	2.6	80.0	80.0	0.000	-91.753	0.0
NMVOC	1A2d	Other	0.000	0.006	10.0	80.0	80.6	0.000	2030.345	0.0
NMVOC	1A2d	Peat	0.018	0.016	2.2	80.0	80.0	0.000	-13.150	0.0
NMVOC	1A2d	Solid	0.038	0.002	3.7	80.0	80.1	0.000	-96.045	0.0
NMVOC	1A2e	Biomass	0.007	0.004	9.5	80.0	80.6	0.000	-42.256	0.0
NMVOC	1A2e	Gaseous	0.001	0.000	4.5	80.0	80.1	0.000	-59.085	0.0
NMVOC	1A2e	Liquid	0.005	0.001	3.5	80.0	80.1	0.000	-75.656	0.0
NMVOC	1A2e	Other	0.000	0.002	10.0	80.0	80.6	0.000	706.576	0.0
NMVOC	1A2e	Peat	0.012	0.014	5.0	80.0	80.2	0.000	21.631	0.0
NMVOC	1A2e	Solid	0.007	0.002	4.8	80.0	80.1	0.000	-77.861	0.0
NMVOC	1A2f	Biomass	0.000	0.002	10.0	80.0	80.6	0.000	58895.300	0.0
NMVOC	1A2f	Gaseous	0.004	0.003	4.6	80.0	80.1	0.000	-28.879	0.0
NMVOC	1A2f	Liquid	0.004	0.002	4.4	80.0	80.1	0.000	-36.140	0.0
NMVOC	1A2f	Other		0.006	10.0	80.0	80.6	0.000	NA	0.0
NMVOC	1A2f	Solid	0.009	0.003	2.7	80.0	80.0	0.000	-71.922	0.0
NMVOC	1A2gvii	Gaseous	0.251	0.129	5.0	80.0	80.2	0.015	-48.504	0.1
NMVOC	1A2gvii	Liquid	2.115	0.989	5.0	80.0	80.2	0.878	-53.250	0.5
NMVOC	1A2gviii	Biomass	0.199	0.156	9.6	80.0	80.6	0.022	-21.477	0.1
NMVOC	1A2gviii	Gaseous	0.002	0.027	27.5	80.0	84.6	0.001	1062.275	0.0
NMVOC	1A2gviii	Liquid	0.017	0.009	16.6	80.0	81.7	0.000	-50.763	0.0
NMVOC	1A2gviii	Other	0.011	0.035	10.0	80.0	80.6	0.001	205.779	0.0
NMVOC	1A2gviii	Peat	0.002	0.003	10.0	80.0	80.6	0.000	33.501	0.0
NMVOC	1A3ai(i)	Liquid	0.056	0.042	5.0	80.0	80.2	0.002	-24.205	0.0
NMVOC	1A3aii(i)	Liquid	0.057	0.013	4.9	80.0	80.2	0.000	-76.879	0.0
NMVOC	1A3bi	Diesel oil	1.332	0.096	1.0	80.0	80.0	0.008	-92.777	0.0
NMVOC	1A3bi	Gaseous		0.003	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A3bi	Gasoline	49.364	1.204	2.0	80.0	80.0	1.298	-97.560	0.6
NMVOC	1A3bii	Diesel oil	0.796	0.238	1.0	80.0	80.0	0.050	-70.157	0.1
NMVOC	1A3bii	Gaseous		0.000	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A3bii	Gasoline	1.669	0.029	2.0	80.0	80.0	0.001	-98.235	0.0
NMVOC	1A3biii	Diesel oil	7.843	0.261	1.0	80.0	80.0	0.061	-96.675	0.1
NMVOC	1A3biii	Gaseous		0.001	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A3biv	Diesel oil		0.007	1.0	80.0	80.0	0.000	NA	0.0
NMVOC	1A3biv	Gasoline	2.767	0.971	2.0	80.0	80.0	0.843	-64.921	0.5
NMVOC	1A3bv		13.655	1.272	1.0	200.0	200.0	9.049	-90.683	1.5
NMVOC	1A3c	Liquid	0.234	0.076	2.0	80.0	80.0	0.005	-67.608	0.0
NMVOC	1A3dii	Liquid	9.646	3.228	8.5	80.0	80.4	9.427	-66.532	1.6

NMVOC	1A3ei	Gaseous	0.000	0.000	20.0	80.0	82.5	0.000	-57.478	0.0
NMVOC	1A4ai	Biomass	0.007	0.009	20.0	80.0	82.5	0.000	23.524	0.0
NMVOC	1A4ai	Gaseous	0.003	0.005	10.0	80.0	80.6	0.000	53.832	0.0
NMVOC	1A4ai	Liquid	0.125	0.046	13.0	80.0	81.1	0.002	-63.024	0.0
NMVOC	1A4ai	Peat	0.016	0.014	15.0	80.0	81.4	0.000	-8.960	0.0
NMVOC	1A4aai	Liquid	6.267	0.458	12.8	80.0	81.0	0.192	-92.693	0.2
NMVOC	1A4bi	Biomass	17.720	17.458	20.0	80.0	82.5	289.658	-1.477	8.6
NMVOC	1A4bi	Gaseous	0.004	0.005	9.5	80.0	80.6	0.000	39.603	0.0
NMVOC	1A4bi	Liquid	0.194	0.046	15.0	80.0	81.4	0.002	-76.060	0.0
NMVOC	1A4bi	Other	0.000	0.000	10.0	80.0	80.6	0.000	-97.674	0.0
NMVOC	1A4bi	Peat	0.130	0.028	15.0	80.0	81.4	0.001	-78.462	0.0
NMVOC	1A4bi	Solid	0.074	0.000	20.0	80.0	82.5	0.000	-99.459	0.0
NMVOC	1A4bii	Liquid	6.597	2.290	11.7	80.0	80.9	4.792	-65.286	1.1
NMVOC	1A4ci	Biomass	0.020	0.022	20.0	80.0	82.5	0.000	14.826	0.0
NMVOC	1A4ci	Gaseous	0.002	0.001	30.0	80.0	85.4	0.000	-77.077	0.0
NMVOC	1A4ci	Liquid	0.043	0.022	14.3	80.0	81.3	0.000	-49.220	0.0
NMVOC	1A4ci	Peat	0.080	0.256	10.0	80.0	80.6	0.060	220.110	0.1
NMVOC	1A4ci	Solid	0.001	0.000	20.0	80.0	82.5	0.000	-46.137	0.0
NMVOC	1A4cii	Liquid	6.642	1.326	14.5	80.0	81.3	1.624	-80.037	0.6
NMVOC	1A4ciii	Liquid	0.144	0.078	15.0	80.0	81.4	0.006	-45.500	0.0
NMVOC	1A5a	Biomass	0.014	0.165	10.0	80.0	80.6	0.025	1093.321	0.1
NMVOC	1A5a	Gaseous	0.025	0.036	18.0	80.0	82.0	0.001	44.393	0.0
NMVOC	1A5a	Liquid	0.126	0.110	15.1	80.0	81.4	0.011	-13.072	0.1
NMVOC	1B1b		0.037	0.059	10.0	900.0	900.1	0.390	56.423	0.3
NMVOC	1B2aiv		6.600	2.532	100.0		100.0	8.958	-61.641	1.5
NMVOC	1B2av		7.411	2.603	19.7	100.0	101.9	9.834	-64.885	1.6
NMVOC	1B2b		0.255	0.252	10.0	100.0	100.5	0.090	-0.864	0.2
NMVOC	2A1		0.054	0.026	28.7		28.7	0.000	-52.389	0.0
NMVOC	2A3		0.001	0.002	99.3	80.0	127.5	0.000	32.490	0.0
NMVOC	2B10a		7.836	2.042	100.0		100.0	5.829	-73.939	1.2
NMVOC	2B10b		0.134	0.123	100.0		100.0	0.021	-8.318	0.1
NMVOC	2C1		1.027	0.178	100.0		100.0	0.044	-82.691	0.1
NMVOC	2C2			0.002	100.0		100.0	0.000	NA	0.0
NMVOC	2C3		0.022	0.001	100.0		100.0	0.000	-97.179	0.0
NMVOC	2C6		0.001	0.001	10.0	80.0	80.6	0.000	69.861	0.0
NMVOC	2C7a			0.001	200.0		200.0	0.000	NA	0.0
NMVOC	2C7b		0.010	0.026	100.0		100.0	0.001	160.000	0.0
NMVOC	2C7c		0.025	0.006	100.0		100.0	0.000	-76.302	0.0
NMVOC	2D3a		3.825	11.588	40.0	108.0	115.2	248.927	202.963	8.0
NMVOC	2D3b		0.900	0.386	30.0	80.0	85.4	0.152	-57.093	0.2
NMVOC	2D3c		6.260	0.343	30.0	80.0	85.4	0.120	-94.520	0.2
NMVOC	2D3d		27.500	7.088	61.7	200.0	209.3	307.548	-74.227	8.9
NMVOC	2D3e		2.638	0.464	19.7	200.0	201.0	1.213	-82.428	0.6
NMVOC	2D3g		3.956	1.754	84.6	200.0	217.2	20.271	-55.665	2.3
NMVOC	2D3h		8.800	0.318	89.6	200.0	219.1	0.681	-96.381	0.4
NMVOC	2D3i		2.085	1.705	38.2	200.0	203.6	16.840	-18.248	2.1

NM VOC	2G		0.027	0.014	35.0	100.0	105.9	0.000	-47.887	0.0
NM VOC	2H1		2.966	1.424	10.8	80.0	80.7	1.848	-51.972	0.7
NM VOC	2H2		2.523	1.672	28.8	900.0	900.5	316.882	-33.725	9.0
NM VOC	2I		1.070	1.140	36.0	80.0	87.7	1.399	6.554	0.6
NM VOC	2L		0.013	0.000	100.0		100.0	0.000	-96.252	0.0
NM VOC	3B1a		7.763	6.088	3.0	200.0	200.0	207.281	-21.576	7.3
NM VOC	3B1b		3.732	3.896	3.0	200.0	200.0	84.882	4.396	4.7
NM VOC	3B2		0.105	0.161	5.0	200.0	200.1	0.145	53.491	0.2
NM VOC	3B3		0.423	0.252	5.0	200.0	200.1	0.356	-40.363	0.3
NM VOC	3B4d		0.004	0.005	5.0	200.0	200.1	0.000	8.747	0.0
NM VOC	3B4e		0.153	0.247	5.0	200.0	200.1	0.343	61.529	0.3
NM VOC	3B4gi		0.256	0.254	5.0	200.0	200.1	0.361	-0.931	0.3
NM VOC	3B4gii		0.235	0.739	5.0	200.0	200.1	3.057	214.792	0.9
NM VOC	3B4giii		0.006	0.028	5.0	200.0	200.1	0.005	367.281	0.0
NM VOC	3B4giv		0.041	0.018	5.0	200.0	200.1	0.002	-56.629	0.0
NM VOC	3B4h		1.237	0.676	5.0	200.0	200.1	2.553	-45.398	0.8
NM VOC	3Da2a		4.173	2.185	45.0	200.0	205.0	28.052	-47.635	2.7
NM VOC	3Da3		0.104	0.073	45.0	200.0	205.0	0.031	-29.458	0.1
NM VOC	3De		1.062	0.930	30.0	100.0	104.4	1.316	-12.428	0.6
NM VOC	3F		0.253	0.114	30.0	100.0	104.4	0.020	-55.061	0.1
NM VOC	5A		0.234	0.075	15.0	200.0	200.6	0.031	-68.017	0.1
NM VOC	5D1		0.003	0.009	10.0	200.0	200.2	0.000	190.031	0.0
NM VOC	5D2		0.022	0.018	10.0	200.0	200.2	0.002	-17.395	0.0
Total			235.515	84.587			39.9		-64.084	20.2

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
SO2	1A1a	Biomass	0.587	1.122	7.3	40.0	40.7	3.525	91.257	0.3
SO2	1A1a	Gaseous	0.002	0.106	9.7	20.0	22.2	0.009	5310.935	0.0
SO2	1A1a	Liquid	16.678	0.277	6.2	20.0	20.9	0.057	-98.340	0.0
SO2	1A1a	Other	0.027	0.146	9.8	40.0	41.2	0.061	442.268	0.0
SO2	1A1a	Peat	8.877	2.450	7.9	40.0	40.8	16.906	-72.401	0.6
SO2	1A1a	Solid	50.545	2.289	10.0	40.0	41.2	15.073	-95.472	0.5
SO2	1A1b	Gaseous	1.599	2.979	10.0	20.0	22.4	7.516	86.324	0.4
SO2	1A1b	Liquid	4.507	0.314	10.0	20.0	22.4	0.084	-93.031	0.0
SO2	1A1b	Solid	15.681	0.290	10.0		10.0	0.014	-98.152	0.0

SO2	1A2a	Biomass		0.000	10.0		10.0	0.000	NA	0.0
SO2	1A2a	Gaseous	0.271	0.065	9.4	20.0	22.1	0.004	-75.907	0.0
SO2	1A2a	Liquid	1.958	0.040	9.7	20.0	22.2	0.001	-97.937	0.0
SO2	1A2a	Solid	6.995	0.155	10.0		10.0	0.004	-97.789	0.0
SO2	1A2b	Gaseous	0.000	0.000	10.0	20.0	22.3	0.000	84499.837	0.0
SO2	1A2b	Liquid	4.045	1.407	9.9	20.0	22.3	1.669	-65.223	0.2
SO2	1A2b	Solid	4.034	1.121	10.0		10.0	0.213	-72.209	0.1
SO2	1A2c	Biomass	0.038	0.000	5.0	40.0	40.3	0.000	-99.839	0.0
SO2	1A2c	Gaseous	1.839	0.009	6.7	20.0	21.1	0.000	-99.518	0.0
SO2	1A2c	Liquid	3.311	0.319	9.8	20.0	22.3	0.085	-90.365	0.0
SO2	1A2c	Solid	0.962	0.000	5.0	40.0	40.3	0.000	-99.997	0.0
SO2	1A2d	Biomass	6.176	0.659	9.8	40.0	41.2	1.247	-89.328	0.2
SO2	1A2d	Gaseous	0.239	0.165	2.8	20.0	20.2	0.019	-30.967	0.0
SO2	1A2d	Liquid	19.652	0.532	10.0	20.0	22.4	0.240	-97.291	0.1
SO2	1A2d	Other	0.390	0.059	7.9	40.0	40.8	0.010	-84.831	0.0
SO2	1A2d	Peat	5.876	0.422	10.0	40.0	41.2	0.512	-92.825	0.1
SO2	1A2d	Solid	6.141	0.015	10.0		10.0	0.000	-99.753	0.0
SO2	1A2e	Biomass	0.025	0.017	8.2	40.0	40.8	0.001	-31.990	0.0
SO2	1A2e	Gaseous	0.005	0.000	9.7	20.0	22.2	0.000	-93.757	0.0
SO2	1A2e	Liquid	3.245	0.240	3.3	20.0	20.3	0.040	-92.596	0.0
SO2	1A2e	Other	0.001	0.003	9.9	40.0	41.2	0.000	325.337	0.0
SO2	1A2e	Peat	0.230	0.093	10.0		10.0	0.001	-59.441	0.0
SO2	1A2e	Solid	0.783	0.168	9.7	40.0	41.2	0.081	-78.554	0.0
SO2	1A2f	Biomass	0.000	0.001	10.0		10.0	0.000	1538.836	0.0
SO2	1A2f	Gaseous	0.064	0.045	9.5	20.0	22.1	0.002	-30.018	0.0
SO2	1A2f	Liquid	1.827	0.147	4.8	20.0	20.6	0.015	-91.972	0.0
SO2	1A2f	Other	0.033	0.003	10.0		10.0	0.000	-90.908	0.0
SO2	1A2f	Solid	1.111	0.282	10.0		10.0	0.014	-74.576	0.0
SO2	1A2gvii	Gaseous	0.000	0.000	5.0	50.0	50.2	0.000	-96.136	0.0
SO2	1A2gvii	Liquid	1.003	0.004	5.0	50.0	50.2	0.000	-99.562	0.0
SO2	1A2gviii	Biomass	0.276	0.214	7.8	40.0	40.8	0.129	-22.475	0.0
SO2	1A2gviii	Gaseous	0.028	0.022	7.6	20.0	21.4	0.000	-21.328	0.0
SO2	1A2gviii	Liquid	4.979	0.152	5.0	20.0	20.6	0.017	-96.946	0.0
SO2	1A2gviii	Other	0.307	0.020	10.0		10.0	0.000	-93.575	0.0
SO2	1A2gviii	Peat	0.019	0.039	9.8	40.0	41.2	0.004	111.203	0.0
SO2	1A3ai(i)	Liquid	0.021	0.017	5.0	50.0	50.2	0.001	-17.713	0.0
SO2	1A3aii(i)	Liquid	0.021	0.005	4.9	50.0	50.2	0.000	-75.892	0.0
SO2	1A3bi	Diesel oil	0.909	0.008	1.0	50.0	50.0	0.000	-99.169	0.0
SO2	1A3bi	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
SO2	1A3bi	Gasoline	0.860	0.017	2.0	50.0	50.0	0.001	-98.049	0.0
SO2	1A3bii	Diesel oil	0.705	0.003	1.0	50.0	50.0	0.000	-99.550	0.0
SO2	1A3bii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
SO2	1A3bii	Gasoline	0.032	0.000	2.0	50.0	50.0	0.000	-99.812	0.0
SO2	1A3biii	Diesel oil	2.738	0.014	1.0	50.0	50.0	0.001	-99.475	0.0
SO2	1A3biii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
SO2	1A3biv	Diesel oil		0.000	1.0	50.0	50.0	0.000	NA	0.0

SO2	1A3biv	Gasoline	0.007	0.001	2.0	50.0	50.0	0.000	-92.340	0.0
SO2	1A3c	Liquid	0.438	0.000	2.0	50.0	50.0	0.000	-99.945	0.0
SO2	1A3dii	Liquid	1.650	0.040	8.5	50.0	50.7	0.007	-97.556	0.0
SO2	1A3ei	Gaseous	0.000	0.000	20.0	50.0	53.9	0.000	-57.478	0.0
SO2	1A4ai	Biomass	0.010	0.014	20.0	40.0	44.7	0.001	42.985	0.0
SO2	1A4ai	Gaseous	0.000	0.000	10.0	20.0	22.4	0.000	45.678	0.0
SO2	1A4ai	Liquid	10.103	0.932	13.0	20.0	23.9	0.837	-90.776	0.1
SO2	1A4ai	Peat	0.016	0.016	15.0	40.0	42.7	0.001	-0.938	0.0
SO2	1A4aii	Liquid	0.409	0.001	12.8	50.0	51.6	0.000	-99.694	0.0
SO2	1A4bi	Biomass	0.206	0.237	20.0	40.0	44.7	0.190	14.689	0.1
SO2	1A4bi	Gaseous	0.000	0.000	9.5	20.0	22.1	0.000	83.713	0.0
SO2	1A4bi	Liquid	4.226	0.408	15.0	20.0	25.0	0.176	-90.341	0.1
SO2	1A4bi	Other	0.000	0.000	10.0	40.0	41.2	0.000	-97.674	0.0
SO2	1A4bi	Peat	0.117	0.025	15.0	40.0	42.7	0.002	-78.462	0.0
SO2	1A4bi	Solid	0.290	0.001	20.0	40.0	44.7	0.000	-99.568	0.0
SO2	1A4bii	Liquid	0.032	0.001	11.7	50.0	51.4	0.000	-97.553	0.0
SO2	1A4ci	Biomass	0.033	0.039	19.6	40.0	44.5	0.005	21.048	0.0
SO2	1A4ci	Gaseous	0.000	0.000	30.0	20.0	36.1	0.000	-95.917	0.0
SO2	1A4ci	Liquid	3.231	0.276	14.3	20.0	24.6	0.078	-91.467	0.0
SO2	1A4ci	Peat	0.072	0.232	10.0	40.0	41.2	0.155	222.000	0.1
SO2	1A4ci	Solid	0.093	0.048	20.0	40.0	44.7	0.008	-48.613	0.0
SO2	1A4cii	Liquid	0.986	0.003	14.5	50.0	52.1	0.000	-99.707	0.0
SO2	1A4ciii	Liquid	0.195	0.000	15.0	50.0	52.2	0.000	-99.808	0.0
SO2	1A5a	Biomass	0.008	0.329	10.0	40.0	41.2	0.312	3895.216	0.1
SO2	1A5a	Gaseous	0.000	0.060	18.0	20.0	26.9	0.004	51468.803	0.0
SO2	1A5a	Liquid	5.957	2.164	15.1	50.0	52.2	21.624	-63.679	0.6
SO2	1B1b		0.795	0.045	15.0		15.0	0.001	-94.340	0.0
SO2	2B10a		13.894	1.035	15.0		15.0	0.408	-92.550	0.1
SO2	2C1		2.867	0.843	15.0		15.0	0.271	-70.606	0.1
SO2	2C2			0.002	15.0		15.0	0.000	NA	0.0
SO2	2C7a		0.000	0.112	29.2		29.2	0.018	55694.227	0.0
SO2	2C7b		0.004	0.009	15.0		15.0	0.000	150.000	0.0
SO2	2C7c		0.001	0.000	15.0		15.0	0.000	-92.117	0.0
SO2	2D3g		0.002	0.000	15.0		15.0	0.000	-99.630	0.0
SO2	2D3i		0.089	0.000	15.0		15.0	0.000	-99.527	0.0
SO2	2G		0.001	0.001	35.0	49.0	60.2	0.000	17.769	0.0
SO2	2H1		22.811	0.958	15.0		15.0	0.350	-95.801	0.1
SO2	2L			0.000	15.0		15.0	0.000	NA	0.0
SO2	3F		0.015	0.009	30.0	100.0	104.4	0.002	-37.048	0.0
Total			248.820	24.300			8.5		-90.234	1.2

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NH3	1A1a		0.001	0.004	30.0		30.0	0.000	252.225	0.0
NH3	1A2gvii	Gaseous	0.000	0.000	5.0	80.0	80.2	0.000	-48.380	0.0
NH3	1A2gvii	Liquid	0.002	0.003	5.0	80.0	80.2	0.000	26.647	0.0
NH3	1A2gviii			0.002	30.0		30.0	0.000	NA	0.0
NH3	1A3bi	Diesel oil	0.005	0.026	1.0	80.0	80.0	0.005	399.089	0.1
NH3	1A3bi	Gaseous		0.008	3.0	80.0	80.1	0.000	NA	0.0
NH3	1A3bi	Gasoline	0.235	0.607	2.0	80.0	80.0	2.513	158.690	1.9
NH3	1A3bii	Diesel oil	0.003	0.009	1.0	80.0	80.0	0.001	156.663	0.0
NH3	1A3bii	Gaseous		0.001	3.0	80.0	80.1	0.000	NA	0.0
NH3	1A3bii	Gasoline	0.002	0.002	2.0	80.0	80.0	0.000	-25.940	0.0
NH3	1A3biii	Diesel oil	0.010	0.029	1.0	80.0	80.0	0.006	191.656	0.1
NH3	1A3biii	Gaseous		0.000	3.0	80.0	80.1	0.000	NA	0.0
NH3	1A3biv	Diesel oil		0.000	1.0	80.0	80.0	0.000	NA	0.0
NH3	1A3biv	Gasoline	0.001	0.002	2.0	80.0	80.0	0.000	166.859	0.0
NH3	1A3c	Liquid	0.000	0.000	2.0	80.0	80.0	0.000	-66.654	0.0
NH3	1A3dii	Liquid	0.001	0.001	8.5	80.0	80.4	0.000	-19.751	0.0
NH3	1A4ai	Biomass	0.003	0.005	20.0	80.0	82.5	0.000	47.938	0.0
NH3	1A4aii	Liquid	0.001	0.001	12.8	80.0	81.0	0.000	-24.704	0.0
NH3	1A4bi	Biomass	0.907	0.990	20.0	80.0	82.5	7.082	9.101	3.2
NH3	1A4bi	Solid	0.000	0.000	20.0	80.0	82.5	0.000	-96.283	0.0
NH3	1A4bii	Liquid	0.000	0.000	11.7	80.0	80.9	0.000	51.718	0.0
NH3	1A4ci	Biomass	0.011	0.013	20.0	80.0	82.5	0.001	13.662	0.0
NH3	1A4cii	Liquid	0.002	0.002	14.5	80.0	81.3	0.000	-18.327	0.0
NH3	1A4ciii	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-43.858	0.0
NH3	1A5a	Liquid	0.000	0.000	30.0	80.0	85.4	0.000	16.410	0.0
NH3	1B1b		0.002	0.003	10.0	170.0	170.3	0.000	56.423	0.0
NH3	2B10a		0.582	0.340	100.0		100.0	1.231	-41.555	1.4
NH3	2C1		0.003	0.036	100.0		100.0	0.014	1100.000	0.1
NH3	2C7b		0.100	0.038	100.0		100.0	0.015	-62.000	0.2
NH3	2C7c		0.000	0.001	100.0		100.0	0.000	263.409	0.0
NH3	2D3e		0.061	0.004	200.0		200.0	0.001	-93.262	0.0
NH3	2D3g		0.024	0.002	37.8	100.0	106.9	0.000	-91.370	0.0
NH3	2D3i		0.097	0.113	100.0		100.0	0.135	16.316	0.4
NH3	2G		0.042	0.008	35.0	6.0	35.5	0.000	-79.966	0.0
NH3	2H1		0.542	0.157	100.0		100.0	0.262	-71.033	0.6

NH3	2L		0.020	0.007	100.0		100.0	0.000	-66.466	0.0
NH3	3B1a		5.687	5.751	3.0	186.0	186.0	1217.345	1.122	42.5
NH3	3B1b		4.566	5.280	3.0	186.0	186.0	1026.188	15.634	39.0
NH3	3B2		0.067	0.134	5.0	186.0	186.1	0.664	98.940	1.0
NH3	3B3		3.767	2.718	5.0	186.0	186.1	271.965	-27.864	20.1
NH3	3B4d		0.006	0.008	5.0	186.0	186.1	0.002	34.953	0.1
NH3	3B4e		0.386	0.692	5.0	186.0	186.1	17.621	79.244	5.1
NH3	3B4gi		0.535	0.280	5.0	186.0	186.1	2.878	-47.748	2.1
NH3	3B4gii		0.204	0.581	5.0	186.0	186.1	12.410	184.822	4.3
NH3	3B4giii		0.013	0.080	5.0	186.0	186.1	0.234	525.135	0.6
NH3	3B4giv		0.104	0.026	5.0	186.0	186.1	0.025	-75.014	0.2
NH3	3B4h		1.837	1.543	5.0	186.0	186.1	87.702	-15.986	11.4
NH3	3Da1		3.733	1.978	10.0	40.0	41.2	7.075	-47.019	3.2
NH3	3Da2a		9.930	6.889	45.0	186.0	191.4	1848.596	-30.626	52.3
NH3	3Da2b		0.043	0.075	30.0	100.0	104.4	0.066	74.091	0.3
NH3	3Da2c		0.000	0.001	45.0	100.0	109.7	0.000	198.759	0.0
NH3	3Da3		1.640	1.457	45.0	186.0	191.4	82.696	-11.175	11.1
NH3	3F		0.109	0.061	30.0	100.0	104.4	0.043	-43.956	0.3
NH3	5B1		0.035	0.117	25.0	192.0	193.6	0.549	235.308	0.9
NH3	5B2		0.003	0.196	10.0	75.0	75.7	0.234	5693.731	0.6
NH3	5D1		0.275	0.384	98.8	100.0	140.6	3.099	39.486	2.1
Total			35.624	30.661			67.8		-13.930	82.5

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PM 2.5	1A1a	Biomass	0.265	0.130	5.0	160.0	160.1	1.888	-51.006	0.6
PM 2.5	1A1a	Liquid	0.704	0.016	1.8	100.0	100.0	0.011	-97.724	0.0
PM 2.5	1A1a	Other	0.001	0.003	10.0	160.0	160.3	0.001	553.067	0.0
PM 2.5	1A1a	Peat	0.467	0.053	2.0	120.0	120.0	0.180	-88.536	0.2
PM 2.5	1A1a	Solid	1.103	0.014	1.0	160.0	160.0	0.022	-98.737	0.1
PM 2.5	1A1b	Liquid	0.076	0.001	4.9	100.0	100.1	0.000	-98.184	0.0
PM 2.5	1A1b	Solid	0.020	0.004	3.0	160.0	160.0	0.002	-81.194	0.0
PM 2.5	1A2a	Biomass		0.000	10.0	160.0	160.3	0.000	NA	0.0
PM 2.5	1A2a	Liquid	0.069	0.001	2.0	100.0	100.0	0.000	-97.880	0.0
PM 2.5	1A2a	Solid	0.087	0.001	3.0	160.0	160.0	0.000	-98.581	0.0
PM 2.5	1A2b	Liquid	0.038	0.003	3.0	100.0	100.0	0.000	-93.072	0.0

PM 2.5	1A2b	Solid	0.014	0.000	4.7	160.0	160.1	0.000	-98.632	0.0
PM 2.5	1A2c	Biomass	0.001	0.000	5.0	160.0	160.1	0.000	-99.395	0.0
PM 2.5	1A2c	Liquid	0.184	0.019	4.3	100.0	100.1	0.016	-89.708	0.1
PM 2.5	1A2c	Solid	0.073	0.000	5.0	160.0	160.1	0.000	-100.000	0.0
PM 2.5	1A2d	Biomass	8.973	1.899	1.8	160.0	160.0	403.526	-78.835	9.1
PM 2.5	1A2d	Gaseous	0.052	0.007	2.0	100.0	100.0	0.002	-86.140	0.0
PM 2.5	1A2d	Liquid	0.686	0.023	2.7	100.0	100.0	0.023	-96.655	0.1
PM 2.5	1A2d	Other	0.005	0.001	10.0	160.0	160.3	0.000	-74.652	0.0
PM 2.5	1A2d	Peat	0.154	0.009	2.0	120.0	120.0	0.005	-94.216	0.0
PM 2.5	1A2d	Solid	0.110	0.001	3.7	160.0	160.0	0.000	-99.482	0.0
PM 2.5	1A2e	Biomass	0.011	0.000	9.5	160.0	160.3	0.000	-95.742	0.0
PM 2.5	1A2e	Liquid	0.143	0.008	3.5	100.0	100.1	0.003	-94.707	0.0
PM 2.5	1A2e	Other	0.000	0.000	10.0	160.0	160.3	0.000	7.013	0.0
PM 2.5	1A2e	Peat	0.023	0.000	5.0	120.0	120.1	0.000	-98.231	0.0
PM 2.5	1A2e	Solid	0.013	0.001	4.8	160.0	160.1	0.000	-95.193	0.0
PM 2.5	1A2f	Biomass	0.000	0.001	10.0	160.0	160.3	0.000	959.753	0.0
PM 2.5	1A2f	Liquid	0.219	0.005	4.4	100.0	100.1	0.001	-97.661	0.0
PM 2.5	1A2f	Other		0.001	10.0	160.0	160.3	0.000	NA	0.0
PM 2.5	1A2f	Solid	0.526	0.008	2.5	160.0	160.0	0.006	-98.568	0.0
PM 2.5	1A2gvii	Gaseous	0.001	0.001	5.0	100.0	100.1	0.000	-48.125	0.0
PM 2.5	1A2gvii	Liquid	1.421	0.287	5.0	100.0	100.1	3.605	-79.814	0.9
PM 2.5	1A2gviii	Biomass	0.203	0.120	9.6	160.0	160.3	1.614	-40.991	0.6
PM 2.5	1A2gviii	Liquid	0.471	0.007	3.6	100.0	100.1	0.002	-98.491	0.0
PM 2.5	1A2gviii	Other	0.009	0.001	10.0	160.0	160.3	0.000	-93.799	0.0
PM 2.5	1A2gviii	Peat	0.001	0.000	10.0	120.0	120.4	0.000	-80.724	0.0
PM 2.5	1A3ai(i)	Liquid	0.003	0.002	5.0	100.0	100.1	0.000	-38.569	0.0
PM 2.5	1A3aii(i)	Liquid	0.002	0.001	4.9	100.0	100.1	0.000	-72.732	0.0
PM 2.5	1A3bi	Diesel oil	2.366	0.199	1.0	100.0	100.0	1.731	-91.590	0.6
PM 2.5	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 2.5	1A3bi	Gasoline	0.174	0.032	2.0	100.0	100.0	0.044	-81.721	0.1
PM 2.5	1A3bii	Diesel oil	1.074	0.208	1.0	100.0	100.0	1.887	-80.649	0.6
PM 2.5	1A3bii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 2.5	1A3bii	Gasoline	0.006	0.000	2.0	100.0	100.0	0.000	-97.742	0.0
PM 2.5	1A3biii	Diesel oil	4.287	0.140	1.0	100.0	100.0	0.852	-96.742	0.4
PM 2.5	1A3biii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 2.5	1A3biv	Diesel oil		0.006	1.0	100.0	100.0	0.002	NA	0.0
PM 2.5	1A3biv	Gasoline	0.057	0.014	2.0	100.0	100.0	0.008	-75.443	0.0
PM 2.5	1A3bvi		0.542	0.614	1.0	100.0	100.0	16.459	13.316	1.8
PM 2.5	1A3bvii		0.404	0.454	1.0	100.0	100.0	8.997	12.247	1.4
PM 2.5	1A3c	Liquid	0.084	0.026	2.0	100.0	100.0	0.030	-68.988	0.1
PM 2.5	1A3dii	Liquid	0.548	0.316	8.5	100.0	100.4	4.402	-42.328	1.0
PM 2.5	1A4ai	Biomass	0.030	0.045	20.0	80.0	82.5	0.060	50.683	0.1
PM 2.5	1A4ai	Liquid	0.506	0.075	13.0	100.0	100.8	0.247	-85.263	0.2
PM 2.5	1A4ai	Peat	0.002	0.002	15.0	160.0	160.7	0.000	-7.169	0.0
PM 2.5	1A4aii	Liquid	0.746	0.088	12.8	100.0	100.8	0.342	-88.241	0.3
PM 2.5	1A4bi	Biomass	7.392	7.053	20.0	80.0	82.5	1478.158	-4.584	17.4

PM 2.5	1A4bi	Liquid	0.219	0.046	15.0	100.0	101.1	0.094	-79.091	0.1
PM 2.5	1A4bi	Other	0.000	0.000	10.0	160.0	160.3	0.000	-97.674	0.0
PM 2.5	1A4bi	Peat	0.208	0.045	15.0	160.0	160.7	0.227	-78.462	0.2
PM 2.5	1A4bi	Solid	0.118	0.001	20.0	160.0	161.2	0.000	-99.459	0.0
PM 2.5	1A4bii	Liquid	0.242	0.129	11.7	100.0	100.7	0.734	-46.760	0.4
PM 2.5	1A4ci	Biomass	0.101	0.230	20.0	160.0	161.2	6.006	128.196	1.1
PM 2.5	1A4ci	Liquid	0.167	0.015	14.3	100.0	101.0	0.009	-91.332	0.0
PM 2.5	1A4ci	Peat	0.008	0.026	10.0	160.0	160.3	0.074	220.740	0.1
PM 2.5	1A4ci	Solid	0.001	0.000	20.0	160.0	161.2	0.000	-67.367	0.0
PM 2.5	1A4cii	Liquid	1.620	0.152	14.5	100.0	101.0	1.033	-90.610	0.5
PM 2.5	1A4ciii	Liquid	0.072	0.041	15.0	100.0	101.1	0.074	-43.209	0.1
PM 2.5	1A5a	Biomass	0.002	0.165	10.0	160.0	160.3	3.044	7070.666	0.8
PM 2.5	1A5a	Liquid	0.308	0.119	15.1	100.0	101.1	0.635	-61.263	0.4
PM 2.5	1B1b		0.003	0.005	40.0	200.0	204.0	0.005	60.000	0.0
PM 2.5	1B1c		1.085	0.369	10.0	200.0	200.2	23.916	-65.939	2.2
PM 2.5	1B2aiv		0.189	0.001	80.0	200.0	215.4	0.000	-99.392	0.0
PM 2.5	1B2av		0.005	0.000	40.0	200.0	204.0	0.000	-96.256	0.0
PM 2.5	2A2		0.026	0.000	40.0	200.0	204.0	0.000	-99.484	0.0
PM 2.5	2A3		0.124	0.003	40.0	200.0	204.0	0.002	-97.347	0.0
PM 2.5	2A5a		0.068	0.000	40.0	200.0	204.0	0.000	-99.645	0.0
PM 2.5	2A5b		0.504	0.003	40.0	200.0	204.0	0.001	-99.483	0.0
PM 2.5	2A5c		0.049	0.016	30.0	200.0	202.2	0.044	-67.884	0.1
PM 2.5	2B10a		0.738	0.224	80.0	200.0	215.4	10.192	-69.631	1.4
PM 2.5	2B10b		0.001	0.002	40.0	200.0	204.0	0.000	63.429	0.0
PM 2.5	2B6		0.248	0.000	40.0	200.0	204.0	0.000	-99.835	0.0
PM 2.5	2C1		3.152	0.210	40.0	200.0	204.0	8.034	-93.330	1.3
PM 2.5	2C2		0.014	0.070	40.0	200.0	204.0	0.881	397.854	0.4
PM 2.5	2C3		0.001	0.000	60.0	200.0	208.8	0.000	-95.731	0.0
PM 2.5	2C7a		0.026	0.000	60.0	200.0	208.8	0.000	-98.631	0.0
PM 2.5	2C7c		0.201	0.007	40.0	200.0	204.0	0.009	-96.423	0.0
PM 2.5	2C7d		0.001	0.001	30.0	100.0	104.4	0.000	-16.721	0.0
PM 2.5	2D3b		0.087	0.061	30.0	200.0	202.2	0.654	-30.380	0.4
PM 2.5	2D3d		0.000	0.001	40.0	200.0	204.0	0.000	137.390	0.0
PM 2.5	2D3g		0.016	0.002	40.0	200.0	204.0	0.000	-90.443	0.0
PM 2.5	2D3i		0.064	0.048	40.0	200.0	204.0	0.415	-25.708	0.3
PM 2.5	2G		0.153	0.055	35.0	73.0	81.0	0.087	-63.928	0.1
PM 2.5	2H1		1.420	0.165	80.0	200.0	215.4	5.553	-88.348	1.1
PM 2.5	2H2		0.303	0.398	40.0	200.0	204.0	28.796	31.558	2.4
PM 2.5	2I		0.131	0.000	40.0	200.0	204.0	0.000	-99.821	0.0
PM 2.5	2L		0.054	0.007	40.0	200.0	204.0	0.008	-88.020	0.0
PM 2.5	3B1a		0.132	0.055	3.0	200.0	200.0	0.529	-58.419	0.3
PM 2.5	3B1b		0.079	0.046	3.0	200.0	200.0	0.371	-41.828	0.3
PM 2.5	3B2		0.001	0.001	5.0	200.0	200.1	0.000	102.667	0.0
PM 2.5	3B3		0.004	0.002	5.0	200.0	200.1	0.001	-47.970	0.0
PM 2.5	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	43.533	0.0
PM 2.5	3B4e		0.004	0.006	5.0	200.0	200.1	0.007	53.501	0.0

PM 2.5	3B4gi	0.014	0.011	5.0	200.0	200.1	0.021	-23.344	0.1
PM 2.5	3B4gii	0.003	0.009	5.0	200.0	200.1	0.014	191.454	0.1
PM 2.5	3B4giii	0.001	0.003	5.0	200.0	200.1	0.001	347.389	0.0
PM 2.5	3B4giv	0.032	0.009	5.0	200.0	200.1	0.015	-71.354	0.1
PM 2.5	3B4h	0.013	0.007	5.0	200.0	200.1	0.009	-45.272	0.0
PM 2.5	3Dc	0.268	0.213	3.0	200.0	200.0	7.911	-20.622	1.3
PM 2.5	3F	0.287	0.156	30.0	200.0	202.2	4.339	-45.706	0.9
PM 2.5	5A	0.000	0.000	15.0	385.0	385.3	0.000	-60.865	0.0
PM 2.5	5C1bv	0.000	0.001	10.0	900.0	900.1	0.005	336.941	0.0
PM 2.5	5E	0.299	0.095	35.0	100.0	105.9	0.439	-68.397	0.3
Total		47.248	15.127			45.0		-67.984	20.4

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PM 10	1A1a	Biomass	0.626	0.468	5.0	160.0	160.1	7.142	-25.233	1.4
PM 10	1A1a	Liquid	1.057	0.043	1.8	100.0	100.0	0.023	-95.965	0.1
PM 10	1A1a	Other	0.002	0.011	10.0	160.0	160.3	0.004	491.874	0.0
PM 10	1A1a	Peat	1.337	0.228	2.0	120.0	120.0	0.950	-82.963	0.5
PM 10	1A1a	Solid	4.794	0.075	1.0	160.0	160.0	0.182	-98.438	0.2
PM 10	1A1b	Liquid	0.123	0.004	4.9	100.0	100.1	0.000	-96.977	0.0
PM 10	1A1b	Solid	0.103	0.019	3.0	160.0	160.0	0.012	-81.194	0.1
PM 10	1A2a	Biomass		0.000	10.0	160.0	160.3	0.000	NA	0.0
PM 10	1A2a	Liquid	0.117	0.002	2.0	100.0	100.0	0.000	-97.986	0.0
PM 10	1A2a	Solid	0.394	0.005	3.0	160.0	160.0	0.001	-98.620	0.0
PM 10	1A2b	Liquid	0.059	0.004	3.0	100.0	100.0	0.000	-93.006	0.0
PM 10	1A2b	Solid	0.072	0.001	4.7	160.0	160.1	0.000	-98.632	0.0
PM 10	1A2c	Biomass	0.003	0.000	5.0	160.0	160.1	0.000	-96.266	0.0
PM 10	1A2c	Liquid	0.289	0.030	4.3	100.0	100.1	0.011	-89.776	0.1
PM 10	1A2c	Solid	0.243	0.000	5.0	160.0	160.1	0.000	-100.000	0.0
PM 10	1A2d	Biomass	11.931	2.726	1.8	160.0	160.0	241.850	-77.152	8.3
PM 10	1A2d	Gaseous	0.074	0.009	2.0	100.0	100.0	0.001	-87.956	0.0
PM 10	1A2d	Liquid	0.956	0.034	2.7	100.0	100.0	0.015	-96.446	0.1
PM 10	1A2d	Other	0.011	0.004	10.0	160.0	160.3	0.000	-68.628	0.0
PM 10	1A2d	Peat	0.326	0.020	2.0	120.0	120.0	0.008	-93.777	0.0
PM 10	1A2d	Solid	0.493	0.008	3.7	160.0	160.0	0.002	-98.318	0.0
PM 10	1A2e	Biomass	0.040	0.003	9.5	160.0	160.3	0.000	-91.707	0.0

PM 10	1A2e	Liquid	0.221	0.012	3.5	100.0	100.1	0.002	-94.556	0.0
PM 10	1A2e	Other	0.000	0.000	10.0	160.0	160.3	0.000	7.013	0.0
PM 10	1A2e	Peat	0.111	0.002	5.0	120.0	120.1	0.000	-98.081	0.0
PM 10	1A2e	Solid	0.065	0.003	4.8	160.0	160.1	0.000	-95.193	0.0
PM 10	1A2f	Biomass	0.000	0.003	10.0	160.0	160.3	0.000	881.713	0.0
PM 10	1A2f	Liquid	0.358	0.013	4.4	100.0	100.1	0.002	-96.449	0.0
PM 10	1A2f	Other		0.002	10.0	160.0	160.3	0.000	NA	0.0
PM 10	1A2f	Solid	0.971	0.015	2.5	160.0	160.0	0.008	-98.422	0.0
PM 10	1A2gvii	Gaseous	0.001	0.001	5.0	100.0	100.1	0.000	-48.125	0.0
PM 10	1A2gvii	Liquid	1.421	0.287	5.0	100.0	100.1	1.049	-79.814	0.5
PM 10	1A2gviii	Biomass	0.666	0.257	9.6	160.0	160.3	2.150	-61.477	0.8
PM 10	1A2gviii	Liquid	0.749	0.016	3.6	100.0	100.1	0.003	-97.855	0.0
PM 10	1A2gviii	Other	0.048	0.001	10.0	160.0	160.3	0.000	-96.984	0.0
PM 10	1A2gviii	Peat	0.005	0.001	10.0	120.0	120.4	0.000	-79.643	0.0
PM 10	1A3ai(i)	Liquid	0.003	0.002	5.0	100.0	100.1	0.000	-38.569	0.0
PM 10	1A3aii(i)	Liquid	0.002	0.001	4.9	100.0	100.1	0.000	-72.732	0.0
PM 10	1A3bi	Diesel oil	2.366	0.199	1.0	100.0	100.0	0.503	-91.590	0.4
PM 10	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 10	1A3bi	Gasoline	0.174	0.032	2.0	100.0	100.0	0.013	-81.721	0.1
PM 10	1A3bii	Diesel oil	1.074	0.208	1.0	100.0	100.0	0.549	-80.649	0.4
PM 10	1A3bii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 10	1A3bii	Gasoline	0.006	0.000	2.0	100.0	100.0	0.000	-97.742	0.0
PM 10	1A3biii	Diesel oil	4.287	0.140	1.0	100.0	100.0	0.248	-96.742	0.3
PM 10	1A3biii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 10	1A3biv	Diesel oil		0.006	1.0	100.0	100.0	0.001	NA	0.0
PM 10	1A3biv	Gasoline	0.057	0.014	2.0	100.0	100.0	0.002	-75.443	0.0
PM 10	1A3bvi		0.982	1.114	1.0	100.0	100.0	15.767	13.351	2.1
PM 10	1A3bvii		4.766	5.360	1.0	100.0	100.0	365.249	12.478	10.2
PM 10	1A3c	Liquid	0.089	0.027	2.0	100.0	100.0	0.010	-68.988	0.1
PM 10	1A3dii	Liquid	0.565	0.322	8.5	100.0	100.4	1.329	-42.998	0.6
PM 10	1A4ai	Biomass	0.032	0.046	20.0	80.0	82.5	0.019	45.756	0.1
PM 10	1A4ai	Liquid	0.814	0.132	13.0	100.0	100.8	0.226	-83.758	0.3
PM 10	1A4ai	Peat	0.009	0.008	15.0	160.0	160.7	0.002	-7.169	0.0
PM 10	1A4aii	Liquid	0.746	0.088	12.8	100.0	100.8	0.100	-88.241	0.2
PM 10	1A4bi	Biomass	7.630	7.280	20.0	80.0	82.5	458.133	-4.584	11.5
PM 10	1A4bi	Liquid	0.336	0.060	15.0	100.0	101.1	0.046	-82.259	0.1
PM 10	1A4bi	Other	0.000	0.000	10.0	160.0	160.3	0.000	-97.674	0.0
PM 10	1A4bi	Peat	0.234	0.050	15.0	160.0	160.7	0.083	-78.462	0.2
PM 10	1A4bi	Solid	0.133	0.001	20.0	160.0	161.2	0.000	-99.459	0.0
PM 10	1A4bii	Liquid	0.242	0.129	11.7	100.0	100.7	0.213	-46.760	0.2
PM 10	1A4ci	Biomass	0.104	0.241	20.0	160.0	161.2	1.927	132.167	0.7
PM 10	1A4ci	Liquid	0.269	0.032	14.3	100.0	101.0	0.013	-88.283	0.1
PM 10	1A4ci	Peat	0.042	0.133	10.0	160.0	160.3	0.582	220.740	0.4
PM 10	1A4ci	Solid	0.003	0.001	20.0	160.0	161.2	0.000	-60.958	0.0
PM 10	1A4cii	Liquid	1.620	0.152	14.5	100.0	101.0	0.300	-90.610	0.3
PM 10	1A4ciii	Liquid	0.077	0.044	15.0	100.0	101.1	0.025	-43.209	0.1

PM 10	1A5a	Biomass	0.012	0.856	10.0	160.0	160.3	23.943	7070.666	2.6
PM 10	1A5a	Liquid	0.485	0.179	15.1	100.0	101.1	0.415	-63.117	0.3
PM 10	1B1b		0.008	0.013	40.0	200.0	204.0	0.009	60.000	0.0
PM 10	1B1c		1.544	0.526	10.0	200.0	200.2	14.106	-65.939	2.0
PM 10	1B2aiv		0.312	0.002	80.0	200.0	215.4	0.000	-99.413	0.0
PM 10	1B2av		0.005	0.000	40.0	200.0	204.0	0.000	-96.256	0.0
PM 10	2A2		0.072	0.001	40.0	200.0	204.0	0.000	-99.058	0.0
PM 10	2A3		0.142	0.004	40.0	200.0	204.0	0.001	-97.398	0.0
PM 10	2A5a		0.230	0.002	40.0	200.0	204.0	0.000	-98.985	0.0
PM 10	2A5b		0.796	0.011	40.0	200.0	204.0	0.007	-98.596	0.0
PM 10	2A5c		0.477	0.154	30.0	200.0	202.2	1.240	-67.635	0.6
PM 10	2B10a		1.156	0.330	80.0	200.0	215.4	6.424	-71.450	1.4
PM 10	2B10b		0.007	0.012	40.0	200.0	204.0	0.008	62.149	0.0
PM 10	2B6		0.248	0.000	40.0	200.0	204.0	0.000	-99.835	0.0
PM 10	2C1		4.059	0.224	40.0	200.0	204.0	2.664	-94.471	0.9
PM 10	2C2		0.020	0.099	40.0	200.0	204.0	0.514	397.854	0.4
PM 10	2C3		0.002	0.000	60.0	200.0	208.8	0.000	-95.731	0.0
PM 10	2C7a		0.034	0.000	60.0	200.0	208.8	0.000	-98.748	0.0
PM 10	2C7c		0.408	0.009	40.0	200.0	204.0	0.004	-97.908	0.0
PM 10	2C7d		0.006	0.005	30.0	100.0	104.4	0.000	-16.721	0.0
PM 10	2D3b		0.095	0.066	30.0	200.0	202.2	0.226	-30.380	0.3
PM 10	2D3d		0.000	0.001	40.0	200.0	204.0	0.000	137.390	0.0
PM 10	2D3g		0.017	0.002	40.0	200.0	204.0	0.000	-85.567	0.0
PM 10	2D3i		0.187	0.052	40.0	200.0	204.0	0.142	-72.391	0.2
PM 10	2G		0.153	0.055	35.0	60.0	69.5	0.019	-63.918	0.1
PM 10	2H1		1.965	0.221	80.0	200.0	215.4	2.872	-88.768	0.9
PM 10	2H2		0.320	0.410	40.0	200.0	204.0	8.879	27.913	1.6
PM 10	2I		0.271	0.018	40.0	200.0	204.0	0.016	-93.522	0.1
PM 10	2L		0.081	0.010	40.0	200.0	204.0	0.005	-87.448	0.0
PM 10	3B1a		0.203	0.085	3.0	200.0	200.0	0.364	-58.419	0.3
PM 10	3B1b		0.122	0.071	3.0	200.0	200.0	0.256	-42.056	0.3
PM 10	3B2		0.002	0.004	5.0	200.0	200.1	0.001	102.667	0.0
PM 10	3B3		0.086	0.047	5.0	200.0	200.1	0.112	-45.335	0.2
PM 10	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	43.533	0.0
PM 10	3B4e		0.006	0.010	5.0	200.0	200.1	0.005	53.501	0.0
PM 10	3B4gi		0.189	0.145	5.0	200.0	200.1	1.067	-23.344	0.6
PM 10	3B4gii		0.031	0.089	5.0	200.0	200.1	0.403	191.454	0.3
PM 10	3B4giii		0.003	0.015	5.0	200.0	200.1	0.011	347.389	0.1
PM 10	3B4giv		0.227	0.065	5.0	200.0	200.1	0.215	-71.358	0.2
PM 10	3B4h		0.026	0.014	5.0	200.0	200.1	0.011	-45.272	0.1
PM 10	3Dc		4.897	3.850	3.0	200.0	200.0	754.014	-21.373	14.7
PM 10	3F		0.301	0.163	30.0	200.0	202.2	1.389	-45.626	0.6
PM 10	5A		0.001	0.000	15.0	379.0	379.3	0.000	-60.865	0.0
PM 10	5C1bv		0.000	0.001	10.0	900.0	900.1	0.001	336.941	0.0
PM 10	5E		0.299	0.095	35.0	100.0	105.9	0.128	-68.397	0.2
Total			74.017	28.048			43.8		-62.106	23.5

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
TSP	1A1a	Biomass	1.331	1.147	10.0		10.0	0.084	-13.822	0.2
TSP	1A1a	Liquid	1.214	0.074	10.0		10.0	0.000	-93.938	0.0
TSP	1A1a	Other	0.013	0.019	10.0		10.0	0.000	48.818	0.0
TSP	1A1a	Peat	2.295	0.704	2.4	60.0	60.0	1.146	-69.318	0.6
TSP	1A1a	Solid	7.164	0.094	10.0		10.0	0.001	-98.685	0.0
TSP	1A1b	Liquid	0.150	0.006	10.0		10.0	0.000	-95.723	0.0
TSP	1A1b	Solid	0.395	0.074	10.0		10.0	0.000	-81.194	0.0
TSP	1A2a	Biomass		0.001	10.0		10.0	0.000	NA	0.0
TSP	1A2a	Liquid	0.157	0.003	10.0		10.0	0.000	-98.146	0.0
TSP	1A2a	Solid	0.932	0.013	10.0		10.0	0.000	-98.585	0.0
TSP	1A2b	Liquid	0.069	0.005	10.0		10.0	0.000	-92.931	0.0
TSP	1A2b	Solid	0.277	0.004	10.0		10.0	0.000	-98.632	0.0
TSP	1A2c	Biomass	0.003	0.000	10.0		10.0	0.000	-87.956	0.0
TSP	1A2c	Liquid	0.325	0.035	10.0		10.0	0.000	-89.210	0.0
TSP	1A2c	Solid	0.291	0.000	10.0		10.0	0.000	-100.000	0.0
TSP	1A2d	Biomass	13.907	1.558	10.0		10.0	0.156	-88.799	0.2
TSP	1A2d	Gaseous	0.088	0.012	10.0		10.0	0.000	-85.945	0.0
TSP	1A2d	Liquid	1.536	0.056	10.0		10.0	0.000	-96.344	0.0
TSP	1A2d	Other	0.017	0.008	10.0		10.0	0.000	-55.888	0.0
TSP	1A2d	Peat	0.435	0.027	10.0		10.0	0.000	-93.860	0.0
TSP	1A2d	Solid	0.715	0.002	10.0		10.0	0.000	-99.682	0.0
TSP	1A2e	Biomass	0.073	0.009	10.0		10.0	0.000	-87.678	0.0
TSP	1A2e	Liquid	0.260	0.015	10.0		10.0	0.000	-94.397	0.0
TSP	1A2e	Other	0.001	0.001	10.0		10.0	0.000	6.887	0.0
TSP	1A2e	Peat	0.169	0.008	10.0		10.0	0.000	-95.470	0.0
TSP	1A2e	Solid	0.251	0.006	10.0		10.0	0.000	-97.516	0.0
TSP	1A2f	Biomass	0.001	0.012	10.0		10.0	0.000	860.918	0.0
TSP	1A2f	Liquid	0.449	0.021	10.0		10.0	0.000	-95.279	0.0
TSP	1A2f	Other	0.029	0.006	10.0		10.0	0.000	-80.557	0.0
TSP	1A2f	Solid	1.954	0.034	10.0		10.0	0.000	-98.281	0.0
TSP	1A2gvii	Gaseous	0.001	0.001	5.0	50.0	50.2	0.000	-48.125	0.0
TSP	1A2gvii	Liquid	1.421	0.287	5.0	50.0	50.2	0.133	-79.814	0.2
TSP	1A2gviii	Biomass	1.572	0.530	10.0		10.0	0.018	-66.270	0.1

TSP	1A2gviii	Liquid	0.835	0.026	10.0		10.0	0.000	-96.946	0.0
TSP	1A2gviii	Other	0.189	0.002	10.0		10.0	0.000	-98.764	0.0
TSP	1A2gviii	Peat	0.007	0.002	10.0		10.0	0.000	-76.208	0.0
TSP	1A3ai(i)	Liquid	0.003	0.002	5.0	50.0	50.2	0.000	-38.569	0.0
TSP	1A3aii(i)	Liquid	0.002	0.001	4.9	50.0	50.2	0.000	-72.732	0.0
TSP	1A3bi	Diesel oil	2.366	0.199	1.0	50.0	50.0	0.064	-91.590	0.1
TSP	1A3bi	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
TSP	1A3bi	Gasoline	0.174	0.032	2.0	50.0	50.0	0.002	-81.721	0.0
TSP	1A3bii	Diesel oil	1.074	0.208	1.0	50.0	50.0	0.069	-80.649	0.1
TSP	1A3bii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
TSP	1A3bii	Gasoline	0.006	0.000	2.0	50.0	50.0	0.000	-97.742	0.0
TSP	1A3biii	Diesel oil	4.287	0.140	1.0	50.0	50.0	0.031	-96.742	0.1
TSP	1A3biii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
TSP	1A3biv	Diesel oil		0.006	1.0	50.0	50.0	0.000	NA	0.0
TSP	1A3biv	Gasoline	0.057	0.014	2.0	50.0	50.0	0.000	-75.443	0.0
TSP	1A3bvi		1.325	1.501	1.0	50.0	50.0	3.615	13.321	1.1
TSP	1A3bvii		9.531	10.720	1.0	50.0	50.0	184.347	12.478	7.7
TSP	1A3c	Liquid	0.094	0.029	2.0	50.0	50.0	0.001	-68.988	0.0
TSP	1A3dii	Liquid	0.565	0.322	8.5	50.0	50.7	0.171	-42.998	0.2
TSP	1A4ai	Biomass	0.037	0.048	20.0	80.0	82.5	0.010	31.328	0.1
TSP	1A4ai	Liquid	0.994	0.177	13.0	50.0	51.7	0.054	-82.198	0.1
TSP	1A4ai	Peat	0.034	0.031	12.8	80.0	81.0	0.004	-7.169	0.0
TSP	1A4aii	Liquid	0.746	0.088	12.8	50.0	51.6	0.013	-88.241	0.1
TSP	1A4bi	Biomass	7.948	7.584	20.0	80.0	82.5	250.822	-4.584	9.0
TSP	1A4bi	Liquid	0.425	0.067	15.0	50.0	52.2	0.008	-84.276	0.0
TSP	1A4bi	Other	0.000	0.000	10.0	80.0	80.6	0.000	-97.674	0.0
TSP	1A4bi	Peat	0.260	0.056	15.0	80.0	81.4	0.013	-78.462	0.1
TSP	1A4bi	Solid	0.148	0.001	20.0	80.0	82.5	0.000	-99.459	0.0
TSP	1A4bii	Liquid	0.242	0.129	11.7	50.0	51.4	0.028	-46.760	0.1
TSP	1A4ci	Biomass	0.108	0.127	19.4	80.0	82.3	0.070	17.108	0.1
TSP	1A4ci	Liquid	0.329	0.049	14.3	50.0	52.0	0.004	-85.133	0.0
TSP	1A4ci	Peat	0.160	0.513	10.0	80.0	80.6	1.098	220.740	0.6
TSP	1A4ci	Solid	0.008	0.003	20.0	80.0	82.5	0.000	-65.138	0.0
TSP	1A4cii	Liquid	1.620	0.152	14.5	50.0	52.1	0.040	-90.610	0.1
TSP	1A4ciii	Liquid	0.077	0.044	15.0	50.0	52.2	0.003	-43.209	0.0
TSP	1A5a	Biomass	0.046	3.293	10.0	80.0	80.6	45.199	7070.666	3.8
TSP	1A5a	Liquid	0.591	0.219	15.1	50.0	52.2	0.084	-63.019	0.2
TSP	1B1b		0.019	0.030	20.0		20.0	0.000	60.000	0.0
TSP	1B1c		2.363	0.805	10.0	200.0	200.2	16.661	-65.939	2.3
TSP	1B2aiv		0.442	0.002	40.0		40.0	0.000	-99.466	0.0
TSP	1B2av		0.005	0.000	20.0		20.0	0.000	-96.256	0.0
TSP	2A2		0.174	0.002	20.0		20.0	0.000	-99.005	0.0
TSP	2A3		0.158	0.004	20.0		20.0	0.000	-97.407	0.0
TSP	2A5a		0.400	0.005	18.6	200.0	200.9	0.001	-98.813	0.0
TSP	2A5b		1.014	0.033	28.2	200.0	202.0	0.029	-96.742	0.1
TSP	2A5c		1.217	0.391	30.0	200.0	202.2	4.011	-67.859	1.1

TSP	2B10a	1.409	0.381	40.0		40.0	0.149	-72.931	0.2
TSP	2B10b	0.023	0.038	30.0	200.0	202.2	0.038	61.957	0.1
TSP	2B6	0.248	0.000	20.0		20.0	0.000	-99.835	0.0
TSP	2C1	5.545	0.277	20.0		20.0	0.020	-94.999	0.1
TSP	2C2	0.023	0.116	20.0		20.0	0.003	397.854	0.0
TSP	2C3	0.003	0.000	18.0		18.0	0.000	-95.731	0.0
TSP	2C7a	0.043	0.001	38.9		38.9	0.000	-98.383	0.0
TSP	2C7c	0.855	0.014	20.0		20.0	0.000	-98.414	0.0
TSP	2C7d	0.012	0.010	30.0	100.0	104.4	0.001	-16.721	0.0
TSP	2D3b	0.126	0.088	30.0	200.0	202.2	0.203	-30.380	0.3
TSP	2D3d	0.001	0.001	20.0		20.0	0.000	137.390	0.0
TSP	2D3g	0.019	0.003	20.0		20.0	0.000	-83.166	0.0
TSP	2D3i	0.598	0.056	20.0		20.0	0.001	-90.715	0.0
TSP	2G	0.153	0.055	35.0	55.0	65.2	0.008	-63.916	0.1
TSP	2H1	2.389	0.318	40.0		40.0	0.104	-86.695	0.2
TSP	2H2	0.329	0.424	25.8	200.0	201.7	4.686	28.968	1.2
TSP	2I	0.590	0.094	20.0		20.0	0.002	-84.042	0.0
TSP	2L	0.093	0.014	20.0		20.0	0.000	-85.342	0.0
TSP	3B1a	0.445	0.185	3.0	200.0	200.0	0.880	-58.419	0.5
TSP	3B1b	0.264	0.153	3.0	200.0	200.0	0.602	-41.957	0.4
TSP	3B2	0.005	0.010	5.0	200.0	200.1	0.003	102.667	0.0
TSP	3B3	0.518	0.305	5.0	200.0	200.1	2.389	-41.061	0.9
TSP	3B4d	0.000	0.000	5.0	200.0	200.1	0.000	43.533	0.0
TSP	3B4e	0.014	0.021	5.0	200.0	200.1	0.012	53.501	0.1
TSP	3B4gi	0.897	0.688	5.0	200.0	200.1	12.151	-23.344	2.0
TSP	3B4gii	0.061	0.178	5.0	200.0	200.1	0.814	191.454	0.5
TSP	3B4giii	0.003	0.015	5.0	200.0	200.1	0.006	347.389	0.0
TSP	3B4giv	0.234	0.067	5.0	200.0	200.1	0.115	-71.384	0.2
TSP	3B4h	0.059	0.032	5.0	200.0	200.1	0.027	-45.272	0.1
TSP	3Dc	4.897	3.850	3.0	200.0	200.0	380.449	-21.373	11.0
TSP	3F	0.305	0.166	30.0	200.0	202.2	0.723	-45.601	0.5
TSP	5A	0.003	0.001	15.0	377.0	377.3	0.000	-60.865	0.0
TSP	5C1bv	0.000	0.001	10.0	900.0	900.1	0.001	336.941	0.0
TSP	5E	0.299	0.095	35.0	100.0	105.9	0.064	-68.397	0.1
Total		98.735	39.486			30.2		-60.008	17.1

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
BC	1A1a	Biomass	0.005	0.004	5.0	320.0	320.0	0.185	-18.321	0.2
BC	1A1a	Liquid	0.177	0.005	1.8	200.0	200.0	0.088	-97.331	0.1
BC	1A1a	Other	0.000	0.000	10.0	320.0	320.2	0.000	504.325	0.0
BC	1A1a	Peat	0.015	0.002	2.0	280.0	280.0	0.024	-88.536	0.1
BC	1A1a	Solid	0.024	0.000	1.0	320.0	320.0	0.001	-98.737	0.0
BC	1A1b	Liquid	0.010	0.000	4.9	200.0	200.1	0.001	-96.212	0.0
BC	1A1b	Solid	0.000	0.000	3.0	320.0	320.0	0.000	-81.237	0.0
BC	1A2a	Biomass		0.000	10.0	320.0	320.2	0.000	NA	0.0
BC	1A2a	Liquid	0.015	0.000	2.0	200.0	200.0	0.000	-98.732	0.0
BC	1A2a	Solid	0.002	0.000	3.0	320.0	320.0	0.000	-98.634	0.0
BC	1A2b	Liquid	0.011	0.001	3.0	200.0	200.0	0.002	-94.433	0.0
BC	1A2b	Solid	0.000	0.000	4.7	320.0	320.0	0.000	-98.676	0.0
BC	1A2c	Biomass	0.000	0.000	5.0	320.0	320.0	0.000	-99.395	0.0
BC	1A2c	Liquid	0.051	0.005	4.3	200.0	200.0	0.113	-89.463	0.1
BC	1A2c	Solid	0.002	0.000	5.0	320.0	320.0	0.000	-100.000	0.0
BC	1A2d	Biomass	0.021	0.002	4.8	320.0	320.0	0.050	-89.396	0.1
BC	1A2d	Gaseous	0.004	0.000	2.0	200.0	200.0	0.001	-86.390	0.0
BC	1A2d	Liquid	0.113	0.002	2.7	200.0	200.0	0.019	-98.041	0.1
BC	1A2d	Other	0.002	0.000	10.0	320.0	320.2	0.000	-91.868	0.0
BC	1A2d	Peat	0.005	0.000	2.0	280.0	280.0	0.001	-94.216	0.0
BC	1A2d	Solid	0.002	0.000	3.7	320.0	320.0	0.000	-99.482	0.0
BC	1A2e	Biomass	0.000	0.000	9.5	320.0	320.1	0.000	-95.742	0.0
BC	1A2e	Liquid	0.043	0.002	3.5	200.0	200.0	0.020	-94.719	0.1
BC	1A2e	Other	0.000	0.000	10.0	320.0	320.2	0.000	7.013	0.0
BC	1A2e	Peat	0.001	0.000	5.0	280.0	280.0	0.000	-98.231	0.0
BC	1A2e	Solid	0.000	0.000	4.8	320.0	320.0	0.000	-95.278	0.0
BC	1A2f	Biomass	0.000	0.000	10.0	320.0	320.2	0.000	959.753	0.0
BC	1A2f	Liquid	0.066	0.002	4.4	200.0	200.0	0.009	-97.706	0.0
BC	1A2f	Other		0.000	10.0	320.0	320.2	0.000	NA	0.0
BC	1A2f	Solid	0.012	0.000	2.5	320.0	320.0	0.000	-98.665	0.0
BC	1A2gvii	Gaseous	0.000	0.000	5.0	200.0	200.1	0.000	-48.125	0.0
BC	1A2gvii	Liquid	0.877	0.175	5.0	200.0	200.1	120.296	-80.079	4.9
BC	1A2gviii	Biomass	0.007	0.004	9.6	320.0	320.1	0.158	-40.926	0.2
BC	1A2gviii	Liquid	0.140	0.002	3.6	200.0	200.0	0.016	-98.561	0.1
BC	1A2gviii	Other	0.002	0.000	10.0	320.0	320.2	0.000	-99.615	0.0

BC	1A2gviii	Peat	0.000	0.000	10.0	280.0	280.2	0.000	-80.898	0.0
BC	1A3ai(i)	Liquid	0.002	0.001	5.0	200.0	200.1	0.004	-38.569	0.0
BC	1A3aii(i)	Liquid	0.001	0.000	4.9	200.0	200.1	0.000	-72.732	0.0
BC	1A3bi	Diesel oil	1.349	0.113	1.0	200.0	200.0	50.692	-91.590	3.2
BC	1A3bi	Gasoline	0.021	0.004	2.0	200.0	200.0	0.057	-81.721	0.1
BC	1A3bii	Diesel oil	0.591	0.114	1.0	200.0	200.0	51.458	-80.649	3.2
BC	1A3bii	Gasoline	0.000	0.000	2.0	200.0	200.0	0.000	-97.742	0.0
BC	1A3biii	Diesel oil	2.272	0.074	1.0	200.0	200.0	21.588	-96.742	2.1
BC	1A3biv	Diesel oil		0.004	1.0	200.0	200.0	0.053	NA	0.1
BC	1A3biv	Gasoline	0.006	0.002	2.0	200.0	200.0	0.009	-75.443	0.0
BC	1A3bvi		0.140	0.159	1.0	200.0	200.0	99.058	13.249	4.4
BC	1A3bvii		0.079	0.089	1.0	200.0	200.0	31.196	12.478	2.5
BC	1A3c	Liquid	0.055	0.017	2.0	200.0	200.0	1.138	-68.988	0.5
BC	1A3dii	Liquid	0.069	0.055	8.5	200.0	200.2	11.858	-20.901	1.5
BC	1A4ai	Biomass	0.001	0.001	20.0	80.0	82.5	0.001	50.286	0.0
BC	1A4ai	Liquid	0.152	0.023	13.0	200.0	200.4	2.024	-85.156	0.6
BC	1A4ai	Peat	0.000	0.000	15.0	320.0	320.4	0.000	-7.169	0.0
BC	1A4aii	Liquid	0.230	0.024	12.8	200.0	200.4	2.242	-89.656	0.7
BC	1A4bi	Biomass	2.260	2.035	20.0	80.0	82.5	2774.426	-9.955	23.4
BC	1A4bi	Liquid	0.072	0.015	15.0	200.0	200.6	0.934	-78.725	0.4
BC	1A4bi	Other	0.000	0.000	10.0	320.0	320.2	0.000	-97.674	0.0
BC	1A4bi	Peat	0.007	0.001	15.0	320.0	320.4	0.022	-78.462	0.1
BC	1A4bi	Solid	0.003	0.000	20.0	320.0	320.6	0.000	-99.459	0.0
BC	1A4bii	Liquid	0.027	0.022	11.7	200.0	200.3	1.968	-16.555	0.6
BC	1A4ci	Biomass	0.003	0.007	20.0	320.0	320.6	0.557	128.216	0.3
BC	1A4ci	Liquid	0.050	0.004	14.3	200.0	200.5	0.079	-91.116	0.1
BC	1A4ci	Peat	0.000	0.001	10.0	320.0	320.2	0.007	220.740	0.0
BC	1A4ci	Solid	0.000	0.000	20.0	320.0	320.6	0.000	-67.367	0.0
BC	1A4cii	Liquid	0.877	0.064	14.5	200.0	200.5	16.375	-92.666	1.8
BC	1A4ciii	Liquid	0.024	0.014	15.0	200.0	200.6	0.723	-43.209	0.4
BC	1A5a	Biomass	0.000	0.046	10.0	320.0	320.2	21.455	60742.019	2.1
BC	1A5a	Liquid	0.094	0.040	15.1	200.0	200.6	6.351	-57.201	1.1
BC	1B1b		0.000	0.000	80.0	400.0	407.9	0.000	-34.589	0.0
BC	2A2		0.000	0.000	80.0	400.0	407.9	0.000	-99.540	0.0
BC	2A3		0.000	0.000	80.0	400.0	407.9	0.000	-97.347	0.0
BC	2B10a		0.013	0.004	160.0	400.0	430.8	0.298	-69.543	0.2
BC	2B6		0.004	0.000	80.0	400.0	407.9	0.000	-99.835	0.0
BC	2C1		0.012	0.001	80.0	400.0	407.9	0.009	-93.546	0.0
BC	2C2		0.001	0.007	80.0	400.0	407.9	0.794	397.854	0.4
BC	2C3		0.000	0.000	120.0	400.0	417.6	0.000	-93.879	0.0
BC	2C7a		0.000	0.000	120.0	400.0	417.6	0.000	-99.948	0.0
BC	2D3b		0.005	0.003	30.0	200.0	202.2	0.048	-30.380	0.1
BC	2D3i		0.000	0.000	80.0	400.0	407.9	0.000	-87.783	0.0
BC	2G		0.001	0.000	35.0	49.0	60.2	0.000	-63.939	0.0
BC	2H1		0.046	0.004	160.0	400.0	430.8	0.338	-90.720	0.3
BC	3F		0.034	0.019	30.0	200.0	202.2	1.465	-44.204	0.5

BC	5C1bv	0.000	0.001	10.0	900.0	900.1	0.027	336.941	0.1
BC	5E	0.027	0.008	35.0	100.0	105.9	0.075	-69.101	0.1
Total		10.137	3.186				56.7	-68.570	25.2

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2020 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
CO	1A1a	Biomass	1.545	12.080	4.5	70.0	70.1	7.136	681.695	1.6
CO	1A1a	Gaseous	0.780	0.443	5.3	70.0	70.2	0.010	-43.136	0.1
CO	1A1a	Liquid	0.371	0.095	1.9	70.0	70.0	0.000	-74.418	0.0
CO	1A1a	Other	0.008	0.390	8.6	70.0	70.5	0.008	4534.652	0.1
CO	1A1a	Peat	1.544	1.674	2.2	70.0	70.0	0.137	8.413	0.2
CO	1A1a	Solid	0.793	0.413	7.9	70.0	70.4	0.008	-47.850	0.1
CO	1A1b	Gaseous	0.480	1.037	2.9	70.0	70.1	0.052	116.118	0.1
CO	1A1b	Liquid	0.042	0.047	4.9	70.0	70.2	0.000	13.154	0.0
CO	1A1b	Solid	0.053	0.127	2.9	70.0	70.1	0.001	141.630	0.0
CO	1A2a	Biomass		0.000	10.0		10.0	0.000	NA	0.0
CO	1A2a	Gaseous	0.408	0.419	1.9	70.0	70.0	0.009	2.685	0.1
CO	1A2a	Liquid	0.214	0.150	9.7	70.0	70.7	0.001	-29.769	0.0
CO	1A2a	Solid	6.570	0.466	3.0	70.0	70.1	0.011	-92.913	0.1
CO	1A2b	Gaseous	0.001	0.134	9.7	70.0	70.7	0.001	17282.568	0.0
CO	1A2b	Liquid	0.019	0.013	3.0	70.0	70.1	0.000	-33.974	0.0
CO	1A2b	Solid	0.079	0.004	4.7	70.0	70.2	0.000	-94.844	0.0
CO	1A2c	Biomass	0.017	0.001	4.8	70.0	70.2	0.000	-94.805	0.0
CO	1A2c	Gaseous	0.081	0.269	3.8	70.0	70.1	0.004	230.411	0.0
CO	1A2c	Liquid	0.162	0.048	5.5	70.0	70.2	0.000	-70.020	0.0
CO	1A2c	Solid	0.095	0.000	2.9	70.0	70.1	0.000	-99.927	0.0
CO	1A2d	Biomass	25.190	18.171	2.0	70.0	70.0	16.093	-27.863	2.4
CO	1A2d	Gaseous	1.849	0.653	3.8	70.0	70.1	0.021	-64.709	0.1
CO	1A2d	Liquid	1.110	0.354	2.6	70.0	70.0	0.006	-68.149	0.0
CO	1A2d	Other	0.008	0.089	8.7	70.0	70.5	0.000	1026.484	0.0
CO	1A2d	Peat	0.700	0.330	2.9	70.0	70.1	0.005	-52.877	0.0
CO	1A2d	Solid	0.645	0.008	4.5	70.0	70.1	0.000	-98.748	0.0
CO	1A2e	Biomass	0.077	0.066	9.5	70.0	70.6	0.000	-14.019	0.0
CO	1A2e	Gaseous	0.019	0.007	4.3	70.0	70.1	0.000	-60.037	0.0
CO	1A2e	Liquid	0.089	0.015	3.4	70.0	70.1	0.000	-83.338	0.0
CO	1A2e	Other	0.002	0.008	10.0	70.0	70.7	0.000	287.385	0.0

CO	1A2e	Peat	0.143	0.066	5.0	70.0	70.2	0.000	-53.476	0.0
CO	1A2e	Solid	0.053	0.012	4.8	70.0	70.2	0.000	-77.266	0.0
CO	1A2f	Biomass	0.000	0.058	7.7	70.0	70.4	0.000	80650.999	0.0
CO	1A2f	Gaseous	2.421	0.082	4.3	70.0	70.1	0.000	-96.632	0.0
CO	1A2f	Liquid	0.748	0.136	5.8	70.0	70.2	0.001	-81.854	0.0
CO	1A2f	Other		0.687	10.0	70.0	70.7	0.023	NA	0.1
CO	1A2f	Solid	12.941	3.057	2.5	70.0	70.0	0.456	-76.375	0.4
CO	1A2gvii	Gaseous	0.300	0.154	5.0	70.0	70.2	0.001	-48.634	0.0
CO	1A2gvii	Liquid	8.124	7.132	5.0	70.0	70.2	2.489	-12.212	0.9
CO	1A2gviii	Biomass	3.840	3.339	9.3	70.0	70.6	0.552	-13.052	0.4
CO	1A2gviii	Gaseous	0.059	0.175	8.9	70.0	70.6	0.002	196.500	0.0
CO	1A2gviii	Liquid	0.204	0.040	3.8	70.0	70.1	0.000	-80.451	0.0
CO	1A2gviii	Other	0.279	0.019	10.0		10.0	0.000	-93.085	0.0
CO	1A2gviii	Peat	0.024	0.041	8.6	70.0	70.5	0.000	70.751	0.0
CO	1A3ai(i)	Liquid	0.231	0.296	5.0	70.0	70.2	0.004	28.141	0.0
CO	1A3aii(i)	Liquid	0.631	0.202	4.9	70.0	70.2	0.002	-68.076	0.0
CO	1A3bi	Diesel oil	9.979	0.835	1.0	70.0	70.0	0.034	-91.637	0.1
CO	1A3bi	Gaseous		0.084	3.0	70.0	70.1	0.000	NA	0.0
CO	1A3bi	Gasoline	412.338	19.950	2.0	70.0	70.0	19.397	-95.162	2.6
CO	1A3bii	Diesel oil	4.107	1.255	1.0	70.0	70.0	0.077	-69.452	0.2
CO	1A3bii	Gaseous		0.008	3.0	70.0	70.1	0.000	NA	0.0
CO	1A3bii	Gasoline	18.286	0.496	2.0	70.0	70.0	0.012	-97.289	0.1
CO	1A3biii	Diesel oil	15.069	2.374	1.0	70.0	70.0	0.275	-84.245	0.3
CO	1A3biii	Gaseous		0.005	3.0	70.0	70.1	0.000	NA	0.0
CO	1A3biv	Diesel oil		0.047	1.0	70.0	70.0	0.000	NA	0.0
CO	1A3biv	Gasoline	7.906	4.019	2.0	70.0	70.0	0.787	-49.161	0.5
CO	1A3c	Liquid	0.548	0.186	2.0	70.0	70.0	0.002	-66.131	0.0
CO	1A3dii	Liquid	22.554	22.634	8.5	70.0	70.5	25.314	0.358	3.0
CO	1A3ei	Gaseous	0.001	0.000	20.0	70.0	72.8	0.000	-57.478	0.0
CO	1A4ai	Biomass	0.455	0.658	20.0	70.0	72.8	0.023	44.687	0.1
CO	1A4ai	Gaseous	0.031	0.047	10.0	70.0	70.7	0.000	50.977	0.0
CO	1A4ai	Liquid	0.527	0.190	12.7	70.0	71.1	0.002	-64.018	0.0
CO	1A4ai	Peat	0.018	0.016	15.0	70.0	71.6	0.000	-15.490	0.0
CO	1A4aii	Liquid	11.336	15.413	12.8	70.0	71.2	11.956	35.961	2.0
CO	1A4bi	Biomass	124.241	135.549	20.0	70.0	72.8	967.764	9.101	18.3
CO	1A4bi	Gaseous	0.039	0.055	9.5	70.0	70.6	0.000	39.603	0.0
CO	1A4bi	Liquid	0.776	0.186	15.0	70.0	71.6	0.002	-76.060	0.0
CO	1A4bi	Other	0.001	0.000	10.0	70.0	70.7	0.000	-97.674	0.0
CO	1A4bi	Peat	0.130	0.028	15.0	70.0	71.6	0.000	-78.462	0.0
CO	1A4bi	Solid	0.074	0.000	20.0	70.0	72.8	0.000	-99.459	0.0
CO	1A4bii	Liquid	34.909	37.098	11.7	70.0	71.0	68.905	6.273	4.9
CO	1A4ci	Biomass	1.515	1.729	20.0	70.0	72.8	0.157	14.164	0.2
CO	1A4ci	Gaseous	0.027	0.006	30.0	70.0	76.2	0.000	-79.284	0.0
CO	1A4ci	Liquid	0.178	0.088	14.3	70.0	71.4	0.000	-50.391	0.0
CO	1A4ci	Peat	0.080	0.261	10.0	70.0	70.7	0.003	225.780	0.0
CO	1A4ci	Solid	0.007	0.004	20.0	70.0	72.8	0.000	-46.137	0.0

CO	1A4cii	Liquid	18.799	8.865	14.5	70.0	71.5	3.990	-52.843	1.2
CO	1A4ciii	Liquid	0.442	0.261	15.0	70.0	71.6	0.003	-40.932	0.0
CO	1A5a	Biomass	0.130	8.232	10.0	70.0	70.7	3.367	6233.532	1.1
CO	1A5a	Gaseous	0.246	0.355	18.0	70.0	72.3	0.007	44.333	0.0
CO	1A5a	Liquid	1.900	0.969	15.1	70.0	71.6	0.048	-49.007	0.1
CO	2C1		0.464	0.188	20.0		20.0	0.000	-59.533	0.0
CO	2C7a		0.223	0.008	20.0		20.0	0.000	-96.365	0.0
CO	2G		0.315	0.116	35.0	5.0	35.4	0.000	-63.206	0.0
CO	3F		3.695	1.990	30.0	100.0	104.4	0.429	-46.130	0.4
Total			764.457	317.211			33.6		-58.505	19.7

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Pb	1A1a	Biomass	0.179	0.690	8.7	80.0	80.5	22.757	284.813	0.2
Pb	1A1a	Liquid	0.319	0.014	11.7	80.0	80.9	0.010	-95.560	0.0
Pb	1A1a	Other	0.001	0.132	9.5	80.0	80.6	0.832	12848.992	0.0
Pb	1A1a	Peat	1.291	0.814	2.1	80.0	80.0	31.343	-36.955	0.3
Pb	1A1a	Solid	5.751	0.035	27.4	80.0	84.6	0.064	-99.396	0.0
Pb	1A1b	Liquid	0.015	0.000	2.0	80.0	80.0	0.000	-96.965	0.0
Pb	1A1b	Solid	2.081	2.945	3.0	80.0	80.1	410.526	41.533	1.0
Pb	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Pb	1A2a	Liquid	0.036	0.004	30.0		30.0	0.000	-89.501	0.0
Pb	1A2b	Liquid	0.010	0.001	5.0	80.0	80.2	0.000	-92.647	0.0
Pb	1A2c	Biomass	0.003	0.000	5.0	80.0	80.2	0.000	-90.066	0.0
Pb	1A2c	Liquid	0.082	0.024	4.4	80.0	80.1	0.027	-70.523	0.0
Pb	1A2c	Solid	0.201	0.003	2.9	80.0	80.1	0.000	-98.697	0.0
Pb	1A2d	Biomass	4.479	2.529	2.4	80.0	80.0	302.596	-43.545	0.9
Pb	1A2d	Liquid	0.195	0.018	3.8	80.0	80.1	0.015	-90.991	0.0
Pb	1A2d	Other	0.001	0.011	14.3	80.0	81.3	0.006	1054.867	0.0
Pb	1A2d	Peat	0.499	0.004	29.8	80.0	85.4	0.001	-99.122	0.0
Pb	1A2d	Solid	1.025	0.001	4.9	80.0	80.2	0.000	-99.872	0.0
Pb	1A2e	Biomass	0.008	0.004	9.5	80.0	80.6	0.001	-51.911	0.0
Pb	1A2e	Liquid	0.083	0.008	9.6	80.0	80.6	0.003	-90.854	0.0
Pb	1A2e	Other	0.003	0.002	10.0	80.0	80.6	0.000	-45.382	0.0
Pb	1A2e	Peat	0.167	0.100	5.0	80.0	80.2	0.474	-40.169	0.0
Pb	1A2e	Solid	1.384	0.014	5.5	80.0	80.2	0.009	-98.999	0.0

Pb	1A2f	Biomass	0.000	0.002	9.8	80.0	80.6	0.000	1185.173	0.0
Pb	1A2f	Liquid	0.062	0.004	4.0	80.0	80.1	0.001	-93.707	0.0
Pb	1A2f	Other		0.011	30.0		30.0	0.001	NA	0.0
Pb	1A2f	Solid	2.811	0.651	4.5	80.0	80.1	20.066	-76.856	0.2
Pb	1A2gviii	Biomass	0.319	0.162	9.5	80.0	80.6	1.263	-49.072	0.1
Pb	1A2gviii	Liquid	0.113	0.005	4.0	80.0	80.1	0.001	-95.643	0.0
Pb	1A2gviii	Other	0.049	0.012	9.7	80.0	80.6	0.007	-74.589	0.0
Pb	1A2gviii	Peat	0.003	0.002	9.9	80.0	80.6	0.000	-30.831	0.0
Pb	1A3aii(i)	Liquid	0.297	0.046	20.0	100.0	102.0	0.165	-84.393	0.0
Pb	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	114.908	0.0
Pb	1A3bi	Gasoline	166.003	0.002	2.0	100.0	100.0	0.000	-99.999	0.0
Pb	1A3bii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	16.253	0.0
Pb	1A3bii	Gasoline	6.400	0.000	2.0	100.0	100.0	0.000	-100.000	0.0
Pb	1A3biii	Diesel oil	0.000	0.001	1.0	100.0	100.0	0.000	35.820	0.0
Pb	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Pb	1A3biv	Gasoline	1.300	0.000	2.0	100.0	100.0	0.000	-99.996	0.0
Pb	1A3bvi		7.220	0.466	1.0	100.0	100.0	16.016	-93.551	0.2
Pb	1A3dii	Liquid	0.015	0.009	13.7	100.0	100.9	0.006	-40.926	0.0
Pb	1A4ai	Biomass	0.020	0.029	20.0	80.0	82.5	0.041	42.101	0.0
Pb	1A4ai	Liquid	0.261	0.034	15.0	80.0	81.4	0.056	-87.088	0.0
Pb	1A4ai	Peat	0.020	0.015	15.0	80.0	81.4	0.011	-24.978	0.0
Pb	1A4bi	Biomass	0.413	0.474	20.0	80.0	82.5	11.263	14.689	0.2
Pb	1A4bi	Liquid	0.046	0.001	15.0	80.0	81.4	0.000	-98.811	0.0
Pb	1A4bi	Peat	0.111	0.024	15.0	80.0	81.4	0.028	-78.462	0.0
Pb	1A4bi	Solid	0.292	0.002	20.0	80.0	82.5	0.000	-99.459	0.0
Pb	1A4ci	Biomass	0.065	0.074	20.0	80.0	82.5	0.276	13.972	0.0
Pb	1A4ci	Liquid	0.081	0.005	15.0	80.0	81.4	0.001	-93.256	0.0
Pb	1A4ci	Peat	0.068	0.219	10.0	80.0	80.6	2.302	222.000	0.1
Pb	1A4ci	Solid	0.035	0.000	20.0	80.0	82.5	0.000	-99.152	0.0
Pb	1A4ciii	Liquid	0.007	0.004	15.0	100.0	101.1	0.001	-43.858	0.0
Pb	1A5a	Biomass	0.015	0.741	10.0	80.0	80.6	26.352	4743.242	0.3
Pb	1A5a	Liquid	0.211	0.074	19.3	80.0	82.3	0.277	-64.800	0.0
Pb	1B1b		0.022	0.027	30.0		30.0	0.005	21.182	0.0
Pb	2B10a		0.001	0.001	60.0		60.0	0.000	0.000	0.0
Pb	2C1		34.463	0.518	30.0		30.0	1.782	-98.498	0.1
Pb	2C2		0.001	0.011	30.0		30.0	0.001	1010.000	0.0
Pb	2C3		0.066	0.000	30.0		30.0	0.000	-99.985	0.0
Pb	2C6		0.000	0.013	30.0		30.0	0.001	3075.000	0.0
Pb	2C7a		0.374	0.002	53.0		53.0	0.000	-99.575	0.0
Pb	2C7c		80.081	0.276	30.0		30.0	0.508	-99.655	0.0
Pb	2G		0.310	0.365	35.0	283.0	285.2	80.194	17.769	0.5
Pb	3F		0.003	0.002	30.0	100.0	104.4	0.000	-34.482	0.0
Pb	5C1bv		0.000	0.001	10.0	900.0	900.1	0.006	336.941	0.0
Pb	5E		0.001	0.000	35.0	150.0	154.0	0.000	-69.251	0.0
Total			321.435	11.636			30.5		-96.380	1.6

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Cd	1A1a	Biomass	0.019	0.084	7.3	80.0	80.3	93.659	345.139	1.4
Cd	1A1a	Liquid	0.005	0.000	13.0	80.0	81.0	0.001	-95.195	0.0
Cd	1A1a	Other	0.000	0.015	9.5	80.0	80.6	3.089	13049.319	0.3
Cd	1A1a	Peat	0.023	0.014	2.3	80.0	80.0	2.416	-40.014	0.2
Cd	1A1a	Solid	0.155	0.002	26.6	80.0	84.3	0.078	-98.506	0.0
Cd	1A1b	Liquid	0.000	0.000	2.0	80.0	80.0	0.000	-97.898	0.0
Cd	1A1b	Solid	0.047	0.067	3.0	80.0	80.1	58.886	41.533	1.1
Cd	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Cd	1A2a	Liquid	0.000	0.000	30.0		30.0	0.000	-89.208	0.0
Cd	1A2b	Liquid	0.000	0.000	5.0	80.0	80.2	0.000	-92.647	0.0
Cd	1A2c	Biomass	0.000	0.000	5.0	80.0	80.2	0.000	-76.874	0.0
Cd	1A2c	Liquid	0.001	0.000	4.4	80.0	80.1	0.001	-71.160	0.0
Cd	1A2c	Solid	0.000	0.000	2.9	80.0	80.1	0.000	-85.249	0.0
Cd	1A2d	Biomass	0.317	0.160	2.1	80.0	80.0	334.415	-49.560	2.7
Cd	1A2d	Liquid	0.003	0.000	4.9	80.0	80.2	0.003	-85.742	0.0
Cd	1A2d	Other	0.000	0.001	10.5	80.0	80.7	0.009	517.238	0.0
Cd	1A2d	Peat	0.008	0.000	29.5	80.0	85.3	0.000	-99.624	0.0
Cd	1A2d	Solid	0.024	0.000	4.9	80.0	80.2	0.000	-99.724	0.0
Cd	1A2e	Biomass	0.001	0.000	9.5	80.0	80.6	0.003	-52.762	0.0
Cd	1A2e	Liquid	0.001	0.000	9.5	80.0	80.6	0.000	-91.186	0.0
Cd	1A2e	Other	0.000	0.000	10.0	80.0	80.6	0.001	61.428	0.0
Cd	1A2e	Peat	0.003	0.002	5.0	80.0	80.2	0.036	-40.178	0.0
Cd	1A2e	Solid	0.032	0.000	7.7	80.0	80.4	0.002	-98.854	0.0
Cd	1A2f	Biomass	0.000	0.000	9.9	80.0	80.6	0.001	1173.285	0.0
Cd	1A2f	Liquid	0.001	0.000	4.1	80.0	80.1	0.000	-93.313	0.0
Cd	1A2f	Other		0.000	30.0		30.0	0.000	NA	0.0
Cd	1A2f	Solid	0.068	0.015	4.5	80.0	80.1	2.826	-78.464	0.2
Cd	1A2gvii	Gaseous	0.000	0.000	5.0	100.0	100.1	0.000	-48.380	0.0
Cd	1A2gvii	Liquid	0.003	0.004	5.0	100.0	100.1	0.273	26.412	0.1
Cd	1A2gviii	Biomass	0.036	0.019	9.5	80.0	80.6	4.782	-46.876	0.3
Cd	1A2gviii	Liquid	0.001	0.000	4.0	80.0	80.1	0.000	-95.509	0.0
Cd	1A2gviii	Other	0.028	0.001	9.6	80.0	80.6	0.028	-94.850	0.0
Cd	1A2gviii	Peat	0.000	0.000	9.9	80.0	80.6	0.000	-27.412	0.0
Cd	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	114.908	0.0

Cd	1A3bi	Gasoline	0.000	0.000	2.0	100.0	100.0	0.001	-33.990	0.0
Cd	1A3bii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	16.253	0.0
Cd	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Cd	1A3biii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	35.820	0.0
Cd	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Cd	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	156.615	0.0
Cd	1A3bvi		0.002	0.002	1.0	100.0	100.0	0.061	13.514	0.0
Cd	1A3c	Liquid	0.001	0.000	2.0	100.0	100.0	0.001	-66.654	0.0
Cd	1A3dii	Liquid	0.001	0.001	13.7	100.0	100.9	0.010	-48.528	0.0
Cd	1A4ai	Biomass	0.006	0.009	20.0	80.0	82.5	1.032	47.259	0.2
Cd	1A4ai	Liquid	0.003	0.000	15.0	80.0	81.4	0.002	-87.115	0.0
Cd	1A4ai	Peat	0.000	0.000	15.0	80.0	81.4	0.001	-24.978	0.0
Cd	1A4aii	Liquid	0.001	0.001	12.8	100.0	100.8	0.021	-24.156	0.0
Cd	1A4bi	Biomass	0.124	0.142	20.0	80.0	82.5	280.086	14.689	2.5
Cd	1A4bi	Liquid	0.001	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
Cd	1A4bi	Peat	0.002	0.000	15.0	80.0	81.4	0.002	-78.462	0.0
Cd	1A4bi	Solid	0.007	0.000	20.0	80.0	82.5	0.000	-99.459	0.0
Cd	1A4bii	Liquid	0.000	0.001	11.7	100.0	100.7	0.007	31.372	0.0
Cd	1A4ci	Biomass	0.020	0.022	20.0	80.0	82.5	6.832	13.789	0.4
Cd	1A4ci	Liquid	0.001	0.000	15.0	80.0	81.4	0.000	-93.272	0.0
Cd	1A4ci	Peat	0.001	0.004	10.0	80.0	80.6	0.173	222.000	0.1
Cd	1A4ci	Solid	0.001	0.000	20.0	80.0	82.5	0.000	-98.110	0.0
Cd	1A4cii	Liquid	0.003	0.002	14.5	100.0	101.0	0.119	-18.597	0.1
Cd	1A4ciii	Liquid	0.001	0.000	15.0	100.0	101.1	0.002	-43.858	0.0
Cd	1A5a	Biomass	0.002	0.082	10.0	80.0	80.6	89.889	4743.242	1.4
Cd	1A5a	Liquid	0.003	0.001	19.3	80.0	82.3	0.013	-62.518	0.0
Cd	1B1b		0.000	0.001	30.0		30.0	0.001	1060.000	0.0
Cd	2C1		0.390	0.004	30.0		30.0	0.030	-98.958	0.0
Cd	2C2		0.003	0.000	30.0		30.0	0.000	-93.963	0.0
Cd	2C3		0.023	0.000	60.0		60.0	0.000	-99.957	0.0
Cd	2C6		0.850	0.010	30.0		30.0	0.169	-98.871	0.1
Cd	2C7a		0.000	0.000	30.0		30.0	0.000	-96.000	0.0
Cd	2C7c		4.203	0.001	30.0		30.0	0.003	-99.968	0.0
Cd	2G		0.028	0.012	35.0	846.0	846.7	201.639	-57.678	2.1
Cd	3F		0.027	0.017	30.0	100.0	104.4	6.189	-37.983	0.4
Cd	5C1bv		0.000	0.000	10.0	900.0	900.1	0.046	336.941	0.0
Cd	5E		0.002	0.001	35.0	100.0	105.9	0.007	-69.251	0.0
Total			6.685	0.700			33.0		-89.529	4.9

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Hg	1A1a	Biomass	0.004	0.037	26.0	80.0	84.1	32.731	812.585	4.0
Hg	1A1a	Liquid	0.001	0.000	23.8	80.0	83.5	0.000	-93.680	0.0
Hg	1A1a	Other	0.000	0.004	12.7	80.0	81.0	0.309	15880.054	0.4
Hg	1A1a	Peat	0.062	0.045	18.2	80.0	82.0	46.155	-27.756	4.8
Hg	1A1a	Solid	0.172	0.020	43.5	80.0	91.0	12.004	-88.134	2.4
Hg	1A1b	Liquid	0.000	0.000	2.0	80.0	80.0	0.000	-98.482	0.0
Hg	1A1b	Solid	0.010	0.014	3.0	80.0	80.1	4.219	41.533	1.4
Hg	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Hg	1A2a	Liquid	0.000	0.000	2.0	80.0	80.0	0.000	-90.947	0.0
Hg	1A2a	Solid	0.017	0.000	3.0	80.0	80.1	0.000	-99.611	0.0
Hg	1A2b	Liquid	0.000	0.000	5.0	80.0	80.2	0.000	-77.627	0.0
Hg	1A2c	Biomass	0.000	0.000	5.0	80.0	80.2	0.000	-98.490	0.0
Hg	1A2c	Liquid	0.000	0.000	4.4	80.0	80.1	0.000	-71.869	0.0
Hg	1A2c	Solid	0.005	0.000	2.9	80.0	80.1	0.000	-99.751	0.0
Hg	1A2d	Biomass	0.089	0.101	15.0	80.0	81.4	233.280	13.471	10.7
Hg	1A2d	Liquid	0.000	0.000	9.4	80.0	80.6	0.001	-50.200	0.0
Hg	1A2d	Other	0.000	0.001	44.8	80.0	91.7	0.019	615.180	0.1
Hg	1A2d	Peat	0.016	0.007	50.0	80.0	94.3	1.560	-54.286	0.9
Hg	1A2d	Solid	0.018	0.001	7.7	80.0	80.4	0.006	-97.165	0.1
Hg	1A2e	Biomass	0.000	0.000	9.5	80.0	80.6	0.000	-20.945	0.0
Hg	1A2e	Liquid	0.000	0.000	15.5	80.0	81.5	0.000	-91.407	0.0
Hg	1A2e	Other	0.000	0.000	10.0	80.0	80.6	0.000	707.140	0.0
Hg	1A2e	Peat	0.003	0.002	5.0	80.0	80.2	0.066	-48.639	0.2
Hg	1A2e	Solid	0.006	0.001	45.0	80.0	91.8	0.010	-91.084	0.1
Hg	1A2f	Biomass	0.000	0.000	29.5	80.0	85.3	0.000	2958.371	0.0
Hg	1A2f	Liquid	0.000	0.000	26.6	80.0	84.3	0.000	-86.561	0.0
Hg	1A2f	Other		0.003	50.0		50.0	0.076	NA	0.2
Hg	1A2f	Solid	0.017	0.022	43.4	80.0	91.0	14.252	32.060	2.6
Hg	1A2gviii	Biomass	0.005	0.004	9.4	80.0	80.6	0.391	-9.017	0.4
Hg	1A2gviii	Liquid	0.000	0.000	24.1	80.0	83.6	0.000	-91.226	0.0
Hg	1A2gviii	Other	0.171	0.007	49.0	80.0	93.8	1.352	-96.111	0.8
Hg	1A2gviii	Peat	0.000	0.001	13.2	80.0	81.1	0.015	267.452	0.1
Hg	1A3bi	Diesel oil	0.002	0.004	1.0	100.0	100.0	0.486	114.908	0.5
Hg	1A3bi	Gasoline	0.016	0.010	2.0	100.0	100.0	3.668	-33.990	1.3
Hg	1A3bii	Diesel oil	0.001	0.002	1.0	100.0	100.0	0.085	16.253	0.2

Hg	1A3bii	Gasoline	0.001	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Hg	1A3biii	Diesel oil	0.005	0.007	1.0	100.0	100.0	1.760	35.820	0.9
Hg	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Hg	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.003	156.615	0.0
Hg	1A3dii	Liquid	0.003	0.002	13.7	100.0	100.9	0.121	-26.709	0.2
Hg	1A4ai	Biomass	0.001	0.001	20.0	80.0	82.5	0.049	48.527	0.2
Hg	1A4ai	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-87.150	0.0
Hg	1A4ai	Peat	0.000	0.000	15.0	80.0	81.4	0.001	-24.978	0.0
Hg	1A4bi	Biomass	0.021	0.024	20.0	80.0	82.5	13.192	14.689	2.5
Hg	1A4bi	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
Hg	1A4bi	Peat	0.002	0.000	15.0	80.0	81.4	0.003	-78.462	0.0
Hg	1A4bi	Solid	0.001	0.000	20.0	80.0	82.5	0.000	-99.459	0.0
Hg	1A4ci	Biomass	0.003	0.004	20.0	80.0	82.5	0.323	14.020	0.4
Hg	1A4ci	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-93.292	0.0
Hg	1A4ci	Peat	0.001	0.003	10.0	80.0	80.6	0.252	222.000	0.4
Hg	1A4ci	Solid	0.000	0.000	20.0	80.0	82.5	0.000	-68.950	0.0
Hg	1A4ciii	Liquid	0.002	0.001	15.0	100.0	101.1	0.031	-43.858	0.1
Hg	1A5a	Biomass	0.000	0.008	10.0	80.0	80.6	1.524	4743.242	0.9
Hg	1A5a	Liquid	0.000	0.000	19.3	80.0	82.3	0.003	-26.641	0.0
Hg	1B1b		0.000	0.000	100.0		100.0	0.000	0.000	0.0
Hg	2B10a		0.369	0.035	99.1		99.1	41.864	-90.491	4.5
Hg	2C1		0.005	0.131	50.0		50.0	149.032	2525.000	8.5
Hg	2C2		0.000	0.002	50.0		50.0	0.035	1171.021	0.1
Hg	2C6			0.005	50.0		50.0	0.234	NA	0.3
Hg	2C7a		0.007	0.000	100.0		100.0	0.000	-99.956	0.0
Hg	2C7c		0.028	0.003	50.0		50.0	0.090	-88.500	0.2
Hg	2G		0.000	0.000	35.0	777.0	777.8	0.001	17.769	0.0
Hg	3F		0.005	0.003	30.0	100.0	104.4	0.380	-41.937	0.4
Hg	5C1bv		0.006	0.022	10.0	900.0	900.1	1301.237	264.287	25.3
Hg	5E		0.002	0.001	35.0	100.0	105.9	0.011	-69.251	0.1
Total			1.086	0.538			43.1		-50.504	30.2

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
As	1A1a	Biomass	0.004	0.019	10.4	80.0	80.7	0.567	330.739	0.1
As	1A1a	Liquid	0.029	0.001	12.2	80.0	80.9	0.003	-95.411	0.0

As	1A1a	Other	0.000	0.003	9.6	80.0	80.6	0.016	13474.104	0.0
As	1A1a	Peat	0.628	0.493	2.2	80.0	80.0	391.366	-21.582	1.6
As	1A1a	Solid	1.618	0.033	26.7	80.0	84.3	1.981	-97.945	0.1
As	1A1b	Liquid	0.001	0.000	2.0	80.0	80.0	0.000	-97.398	0.0
As	1A1b	Solid	0.342	0.485	3.0	80.0	80.1	378.956	41.533	1.6
As	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
As	1A2a	Liquid	0.003	0.000	30.0		30.0	0.000	-89.882	0.0
As	1A2b	Liquid	0.001	0.000	5.0	80.0	80.2	0.000	-91.887	0.0
As	1A2c	Biomass	0.000	0.000	5.0	80.0	80.2	0.000	-28.244	0.0
As	1A2c	Liquid	0.007	0.002	4.4	80.0	80.1	0.006	-70.794	0.0
As	1A2c	Solid	0.011	0.000	2.9	80.0	80.1	0.000	-96.150	0.0
As	1A2d	Biomass	0.160	0.145	2.8	80.0	80.0	34.110	-9.166	0.5
As	1A2d	Liquid	0.018	0.003	3.4	80.0	80.1	0.013	-84.620	0.0
As	1A2d	Other	0.000	0.001	25.1	80.0	83.8	0.001	2753.406	0.0
As	1A2d	Peat	0.238	0.002	24.2	80.0	83.6	0.011	-98.956	0.0
As	1A2d	Solid	0.229	0.003	5.5	80.0	80.2	0.013	-98.755	0.0
As	1A2e	Biomass	0.000	0.000	9.5	80.0	80.6	0.000	-50.765	0.0
As	1A2e	Liquid	0.007	0.001	10.3	80.0	80.7	0.001	-91.689	0.0
As	1A2e	Other	0.000	0.000	10.0	80.0	80.6	0.000	707.140	0.0
As	1A2e	Peat	0.080	0.048	5.0	80.0	80.2	3.673	-40.190	0.2
As	1A2e	Solid	0.228	0.005	17.8	80.0	82.0	0.041	-97.830	0.0
As	1A2f	Biomass	0.000	0.000	9.9	80.0	80.6	0.000	1164.942	0.0
As	1A2f	Liquid	0.005	0.000	4.0	80.0	80.1	0.000	-96.357	0.0
As	1A2f	Other		0.000	30.0		30.0	0.000	NA	0.0
As	1A2f	Solid	0.491	0.105	4.5	80.0	80.1	17.728	-78.680	0.3
As	1A2gviii	Biomass	0.007	0.004	9.4	80.0	80.5	0.023	-46.787	0.0
As	1A2gviii	Liquid	0.009	0.000	5.4	80.0	80.2	0.000	-95.030	0.0
As	1A2gviii	Other	0.001	0.002	20.8	80.0	82.7	0.004	112.243	0.0
As	1A2gviii	Peat	0.001	0.023	10.0	80.0	80.6	0.882	1776.640	0.1
As	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	114.908	0.0
As	1A3bi	Gasoline	0.001	0.000	2.0	100.0	100.0	0.000	-33.990	0.0
As	1A3bii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	16.253	0.0
As	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
As	1A3biii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	35.820	0.0
As	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
As	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	156.615	0.0
As	1A3bvi		0.036	0.041	1.0	100.0	100.0	4.317	13.459	0.2
As	1A3dii	Liquid	0.028	0.003	13.7	100.0	100.9	0.017	-90.782	0.0
As	1A4ai	Biomass	0.002	0.003	20.0	80.0	82.5	0.014	48.527	0.0
As	1A4ai	Liquid	0.021	0.003	15.0	80.0	81.4	0.012	-87.098	0.0
As	1A4ai	Peat	0.010	0.007	15.0	80.0	81.4	0.089	-24.978	0.0
As	1A4bi	Biomass	0.041	0.047	20.0	80.0	82.5	3.840	14.689	0.2
As	1A4bi	Liquid	0.004	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
As	1A4bi	Peat	0.053	0.011	15.0	80.0	81.4	0.215	-78.462	0.0
As	1A4bi	Solid	0.048	0.000	20.0	80.0	82.5	0.000	-99.459	0.0
As	1A4ci	Biomass	0.007	0.007	20.0	80.0	82.5	0.094	13.738	0.0

As	1A4ci	Liquid	0.006	0.000	15.0	80.0	81.4	0.000	-93.262	0.0
As	1A4ci	Peat	0.032	0.104	10.0	80.0	80.6	17.814	222.000	0.3
As	1A4ci	Solid	0.006	0.001	20.0	80.0	82.5	0.001	-90.598	0.0
As	1A4ciii	Liquid	0.002	0.001	15.0	100.0	101.1	0.004	-43.858	0.0
As	1A5a	Biomass	0.000	0.016	10.0	80.0	80.6	0.444	4743.242	0.1
As	1A5a	Liquid	0.017	0.006	19.3	80.0	82.3	0.066	-63.745	0.0
As	1B1b		0.004	0.006	30.0		30.0	0.009	58.750	0.0
As	2C1		0.411	0.069	30.0		30.0	1.090	-83.124	0.1
As	2C2		0.002	0.001	30.0		30.0	0.000	-65.000	0.0
As	2C3		0.008	0.000	60.0		60.0	0.000	-99.250	0.0
As	2C6		1.700	0.020	30.0		30.0	0.092	-98.812	0.0
As	2C7a		0.113	0.056	26.8		26.8	0.573	-50.239	0.1
As	2C7c		28.000	0.207	30.0		30.0	9.702	-99.261	0.3
As	2G		0.001	0.001	35.0	877.0	877.7	0.075	17.769	0.0
As	3F		0.000	0.000	30.0	100.0	104.4	0.000	-33.897	0.0
As	5C1bv		0.000	0.000	10.0	900.0	900.1	0.042	336.941	0.0
As	5E		0.003	0.001	35.0	107.0	112.6	0.002	-69.251	0.0
Total			34.816	1.993			29.5		-94.276	2.4

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Cr	1A1a	Biomass	0.117	0.496	7.6	80.0	80.4	8.224	325.325	1.2
Cr	1A1a	Liquid	0.015	0.001	12.5	80.0	81.0	0.000	-95.357	0.0
Cr	1A1a	Other	0.001	0.097	9.6	80.0	80.6	0.316	12408.576	0.2
Cr	1A1a	Peat	1.076	0.666	2.1	80.0	80.0	14.706	-38.110	1.6
Cr	1A1a	Solid	6.765	0.048	27.6	80.0	84.6	0.084	-99.297	0.1
Cr	1A1b	Liquid	0.001	0.000	2.0	80.0	80.0	0.000	-97.398	0.0
Cr	1A1b	Solid	2.634	3.728	3.0	80.0	80.1	461.418	41.533	8.9
Cr	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Cr	1A2a	Liquid	0.001	0.000	30.0		30.0	0.000	-89.882	0.0
Cr	1A2b	Liquid	0.001	0.000	3.8	80.0	80.1	0.000	-53.986	0.0
Cr	1A2b	Solid	1.845	0.197	4.7	80.0	80.1	1.297	-89.301	0.5
Cr	1A2c	Biomass	0.000	0.000	5.0	80.0	80.2	0.000	-40.841	0.0
Cr	1A2c	Liquid	0.003	0.001	4.4	80.0	80.1	0.000	-70.799	0.0
Cr	1A2c	Solid	0.013	0.003	2.9	80.0	80.1	0.000	-74.827	0.0
Cr	1A2d	Biomass	0.558	0.172	20.1	80.0	82.5	1.038	-69.223	0.4

Cr	1A2d	Liquid	0.009	0.002	7.7	80.0	80.4	0.000	-77.724	0.0
Cr	1A2d	Other	0.001	0.005	9.6	80.0	80.6	0.001	714.011	0.0
Cr	1A2d	Peat	0.411	0.002	29.6	80.0	85.3	0.000	-99.591	0.0
Cr	1A2d	Solid	1.263	0.002	4.9	80.0	80.2	0.000	-99.868	0.0
Cr	1A2e	Biomass	0.006	0.003	9.5	80.0	80.6	0.000	-53.140	0.0
Cr	1A2e	Liquid	0.003	0.000	7.6	80.0	80.4	0.000	-90.421	0.0
Cr	1A2e	Other	0.006	0.001	10.0	80.0	80.6	0.000	-78.185	0.0
Cr	1A2e	Peat	0.138	0.082	5.0	80.0	80.2	0.226	-40.165	0.2
Cr	1A2e	Solid	1.752	0.017	5.5	80.0	80.2	0.010	-99.001	0.0
Cr	1A2f	Biomass	0.000	0.003	16.7	80.0	81.7	0.000	2601.263	0.0
Cr	1A2f	Liquid	0.002	0.001	25.2	80.0	83.9	0.000	-58.451	0.0
Cr	1A2f	Other		0.000	30.0		30.0	0.000	NA	0.0
Cr	1A2f	Solid	3.365	0.821	4.5	80.0	80.1	22.402	-75.614	2.0
Cr	1A2gvii	Gaseous	0.000	0.000	5.0	100.0	100.1	0.000	-48.380	0.0
Cr	1A2gvii	Liquid	0.014	0.018	5.0	100.0	100.1	0.017	26.412	0.1
Cr	1A2gviii	Biomass	0.817	0.124	9.5	80.0	80.6	0.514	-84.879	0.3
Cr	1A2gviii	Liquid	0.016	0.000	4.0	80.0	80.1	0.000	-98.725	0.0
Cr	1A2gviii	Other	0.024	0.011	9.8	80.0	80.6	0.004	-53.908	0.0
Cr	1A2gviii	Peat	0.002	0.001	9.9	80.0	80.6	0.000	-31.450	0.0
Cr	1A3bi	Diesel oil	0.003	0.006	1.0	100.0	100.0	0.002	114.908	0.0
Cr	1A3bi	Gasoline	0.011	0.007	2.0	100.0	100.0	0.003	-33.990	0.0
Cr	1A3bii	Diesel oil	0.002	0.003	1.0	100.0	100.0	0.000	16.253	0.0
Cr	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Cr	1A3biii	Diesel oil	0.008	0.011	1.0	100.0	100.0	0.007	35.820	0.0
Cr	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Cr	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	156.615	0.0
Cr	1A3bvi		1.143	1.297	1.0	100.0	100.0	87.121	13.481	3.8
Cr	1A3c	Liquid	0.003	0.001	2.0	100.0	100.0	0.000	-66.654	0.0
Cr	1A3dii	Liquid	0.030	0.007	13.7	100.0	100.9	0.003	-76.662	0.0
Cr	1A4ai	Biomass	0.068	0.101	20.0	80.0	82.5	0.356	48.527	0.2
Cr	1A4ai	Liquid	0.010	0.001	15.0	80.0	81.4	0.000	-87.098	0.0
Cr	1A4ai	Peat	0.017	0.013	15.0	80.0	81.4	0.005	-24.978	0.0
Cr	1A4aii	Liquid	0.007	0.005	12.8	100.0	100.8	0.001	-24.156	0.0
Cr	1A4bi	Biomass	1.445	1.657	20.0	80.0	82.5	96.787	14.689	4.1
Cr	1A4bi	Liquid	0.002	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
Cr	1A4bi	Peat	0.091	0.020	15.0	80.0	81.4	0.013	-78.462	0.0
Cr	1A4bi	Solid	0.370	0.002	20.0	80.0	82.5	0.000	-99.459	0.0
Cr	1A4bii	Liquid	0.002	0.003	11.7	100.0	100.7	0.000	31.372	0.0
Cr	1A4ci	Biomass	0.228	0.259	20.0	80.0	82.5	2.358	13.725	0.6
Cr	1A4ci	Liquid	0.003	0.000	15.0	80.0	81.4	0.000	-93.262	0.0
Cr	1A4ci	Peat	0.056	0.180	10.0	80.0	80.6	1.095	222.000	0.4
Cr	1A4ci	Solid	0.044	0.000	20.0	80.0	82.5	0.000	-99.140	0.0
Cr	1A4cii	Liquid	0.015	0.012	14.5	100.0	101.0	0.008	-18.597	0.0
Cr	1A4ciii	Liquid	0.003	0.002	15.0	100.0	101.1	0.000	-43.858	0.0
Cr	1A5a	Biomass	0.012	0.576	10.0	80.0	80.6	11.182	4743.242	1.4
Cr	1A5a	Liquid	0.009	0.003	19.3	80.0	82.3	0.000	-61.252	0.0

Cr	1B1b	0.003	0.019	30.0		30.0	0.002	526.667	0.0
Cr	2C1	19.554	2.254	30.0		30.0	23.681	-88.475	2.0
Cr	2C2	2.000	0.929	30.0		30.0	4.025	-53.550	0.8
Cr	2C7a	0.145	0.000	30.0		30.0	0.000	-99.897	0.0
Cr	2C7c	0.520	0.009	30.0		30.0	0.000	-98.260	0.0
Cr	2G	0.006	0.007	35.0	862.0	862.7	0.204	17.769	0.2
Cr	3F	0.005	0.003	30.0	100.0	104.4	0.000	-47.045	0.0
Cr	5C1bv	0.000	0.000	10.0	900.0	900.1	0.001	336.941	0.0
Cr	5E	0.003	0.001	35.0	108.0	113.5	0.000	-69.251	0.0
Total		47.670	13.893				27.1	-70.857	11.2

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Cu	1A1a	Biomass	0.174	0.825	6.1	80.0	80.2	3.109	375.209	0.6
Cu	1A1a	Liquid	0.034	0.002	5.1	80.0	80.2	0.000	-95.324	0.0
Cu	1A1a	Other	0.001	0.153	9.5	80.0	80.6	0.108	12867.914	0.1
Cu	1A1a	Peat	1.662	1.072	2.0	80.0	80.0	5.218	-35.483	0.8
Cu	1A1a	Solid	5.471	0.051	27.5	80.0	84.6	0.013	-99.071	0.0
Cu	1A1b	Liquid	0.002	0.000	2.0	80.0	80.0	0.000	-96.965	0.0
Cu	1A1b	Solid	0.922	1.305	3.0	80.0	80.1	7.733	41.533	0.9
Cu	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Cu	1A2a	Liquid	0.004	0.000	30.0		30.0	0.000	-89.484	0.0
Cu	1A2b	Liquid	0.001	0.000	5.0	80.0	80.2	0.000	-75.313	0.0
Cu	1A2c	Biomass	0.001	0.000	5.0	80.0	80.2	0.000	-76.412	0.0
Cu	1A2c	Liquid	0.008	0.002	4.4	80.0	80.1	0.000	-70.584	0.0
Cu	1A2c	Solid	0.010	0.001	2.9	80.0	80.1	0.000	-88.040	0.0
Cu	1A2d	Biomass	0.813	0.384	24.6	80.0	83.7	0.734	-52.703	0.3
Cu	1A2d	Liquid	0.022	0.065	28.9	80.0	85.1	0.022	198.400	0.0
Cu	1A2d	Other	0.001	0.024	22.2	80.0	83.0	0.003	1628.318	0.0
Cu	1A2d	Peat	0.646	0.005	29.8	80.0	85.4	0.000	-99.189	0.0
Cu	1A2d	Solid	0.648	0.001	4.9	80.0	80.2	0.000	-99.795	0.0
Cu	1A2e	Biomass	0.009	0.005	9.5	80.0	80.6	0.000	-49.849	0.0
Cu	1A2e	Liquid	0.008	0.001	9.6	80.0	80.6	0.000	-90.874	0.0
Cu	1A2e	Other	0.000	0.002	10.0	80.0	80.6	0.000	707.140	0.0
Cu	1A2e	Peat	0.216	0.129	5.0	80.0	80.2	0.076	-40.179	0.1
Cu	1A2e	Solid	0.613	0.007	7.6	80.0	80.4	0.000	-98.863	0.0

Cu	1A2f	Biomass	0.000	0.003	9.5	80.0	80.6	0.000	1277.374	0.0
Cu	1A2f	Liquid	0.006	0.000	6.2	80.0	80.2	0.000	-92.126	0.0
Cu	1A2f	Other		0.005	30.0		30.0	0.000	NA	0.0
Cu	1A2f	Solid	1.280	0.306	4.9	80.0	80.1	0.426	-76.104	0.2
Cu	1A2gvii	Gaseous	0.012	0.006	5.0	100.0	100.1	0.000	-48.380	0.0
Cu	1A2gvii	Liquid	0.491	0.621	5.0	100.0	100.1	2.743	26.412	0.6
Cu	1A2gviii	Biomass	0.699	0.189	9.5	80.0	80.6	0.165	-72.901	0.1
Cu	1A2gviii	Liquid	0.022	0.001	4.0	80.0	80.1	0.000	-97.737	0.0
Cu	1A2gviii	Other	0.037	0.015	9.5	80.0	80.6	0.001	-58.238	0.0
Cu	1A2gviii	Peat	0.003	0.002	9.9	80.0	80.6	0.000	-31.155	0.0
Cu	1A3bi	Diesel oil	0.002	0.004	1.0	100.0	100.0	0.000	114.908	0.0
Cu	1A3bi	Gasoline	0.008	0.005	2.0	100.0	100.0	0.000	-33.990	0.0
Cu	1A3bii	Diesel oil	0.001	0.002	1.0	100.0	100.0	0.000	16.253	0.0
Cu	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Cu	1A3biii	Diesel oil	0.006	0.008	1.0	100.0	100.0	0.000	35.820	0.0
Cu	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Cu	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	156.615	0.0
Cu	1A3bvi		49.238	29.200	1.0	100.0	100.0	6044.910	-40.695	26.3
Cu	1A3c	Liquid	0.103	0.034	2.0	100.0	100.0	0.008	-66.654	0.0
Cu	1A3dii	Liquid	0.100	0.013	13.7	100.0	100.9	0.001	-87.188	0.0
Cu	1A4ai	Biomass	0.013	0.017	20.0	80.0	82.5	0.001	35.406	0.0
Cu	1A4ai	Liquid	0.026	0.003	15.0	80.0	81.4	0.000	-87.088	0.0
Cu	1A4ai	Peat	0.026	0.020	15.0	80.0	81.4	0.002	-24.978	0.0
Cu	1A4aai	Liquid	0.227	0.172	12.8	100.0	100.8	0.214	-24.156	0.2
Cu	1A4bi	Biomass	0.248	0.284	20.0	80.0	82.5	0.389	14.689	0.2
Cu	1A4bi	Liquid	0.005	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
Cu	1A4bi	Peat	0.143	0.031	15.0	80.0	81.4	0.004	-78.462	0.0
Cu	1A4bi	Solid	0.130	0.001	20.0	80.0	82.5	0.000	-99.459	0.0
Cu	1A4bii	Liquid	0.075	0.098	11.7	100.0	100.7	0.069	31.372	0.1
Cu	1A4ci	Biomass	0.039	0.045	20.0	80.0	82.5	0.010	14.307	0.0
Cu	1A4ci	Liquid	0.008	0.001	15.0	80.0	81.4	0.000	-93.256	0.0
Cu	1A4ci	Peat	0.088	0.283	10.0	80.0	80.6	0.370	222.000	0.2
Cu	1A4ci	Solid	0.016	0.000	20.0	80.0	82.5	0.000	-98.057	0.0
Cu	1A4cii	Liquid	0.499	0.406	14.5	100.0	101.0	1.192	-18.597	0.4
Cu	1A4ciii	Liquid	0.049	0.006	15.0	100.0	101.1	0.000	-87.241	0.0
Cu	1A5a	Biomass	0.017	0.840	10.0	80.0	80.6	3.248	4743.242	0.6
Cu	1A5a	Liquid	0.029	0.011	19.3	80.0	82.3	0.001	-62.372	0.0
Cu	1B1b		0.004	0.022	30.0		30.0	0.000	437.750	0.0
Cu	2B10a		0.270	0.005	30.0		30.0	0.000	-98.333	0.0
Cu	2C1		5.540	0.379	30.0		30.0	0.092	-93.157	0.1
Cu	2C2		0.003	0.024	30.0		30.0	0.000	822.957	0.0
Cu	2C6			0.017	30.0		30.0	0.000	NA	0.0
Cu	2C7a		4.803	0.002	30.0		30.0	0.000	-99.958	0.0
Cu	2C7c		80.257	0.220	30.0		30.0	0.031	-99.726	0.1
Cu	2G		0.203	0.218	35.0	350.0	351.7	4.168	7.453	0.7
Cu	3F		0.002	0.001	30.0	100.0	104.4	0.000	-34.767	0.0

Cu	5C1bv	0.000	0.000	10.0	900.0	900.1	0.000	336.941	0.0
Cu	5E	0.006	0.002	35.0	103.0	108.8	0.000	-69.251	0.0
Total		156.893	37.559			77.9		-76.061	26.4

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Ni	1A1a	Biomass	0.101	0.439	7.3	80.0	80.3	13.273	334.476	0.6
Ni	1A1a	Liquid	3.688	0.171	13.4	80.0	81.1	2.045	-95.374	0.2
Ni	1A1a	Other	0.001	0.083	9.7	80.0	80.6	0.476	12241.768	0.1
Ni	1A1a	Peat	1.066	0.664	2.1	80.0	80.0	30.121	-37.740	1.0
Ni	1A1a	Solid	5.396	0.076	29.0	80.0	85.1	0.449	-98.588	0.1
Ni	1A1b	Liquid	1.729	0.006	2.0	80.0	80.0	0.002	-99.675	0.0
Ni	1A1b	Solid	0.150	0.010	9.3	80.0	80.5	0.007	-93.390	0.0
Ni	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Ni	1A2a	Liquid	0.435	0.045	30.0		30.0	0.020	-89.587	0.0
Ni	1A2b	Liquid	0.124	0.028	5.0	80.0	80.2	0.053	-77.627	0.0
Ni	1A2b	Solid	1.115	0.009	5.0	80.0	80.2	0.005	-99.207	0.0
Ni	1A2c	Biomass	0.000	0.000	5.0	80.0	80.2	0.000	-40.067	0.0
Ni	1A2c	Liquid	0.833	0.288	4.4	80.0	80.1	5.684	-65.422	0.4
Ni	1A2c	Solid	0.010	0.003	2.9	80.0	80.1	0.000	-73.800	0.0
Ni	1A2d	Biomass	0.475	0.201	22.5	80.0	83.1	2.969	-57.792	0.3
Ni	1A2d	Liquid	2.234	0.172	4.1	80.0	80.1	2.035	-92.284	0.2
Ni	1A2d	Other	0.001	0.006	9.7	80.0	80.6	0.002	839.978	0.0
Ni	1A2d	Peat	0.412	0.026	30.0	80.0	85.4	0.052	-93.722	0.0
Ni	1A2d	Solid	1.036	0.001	3.7	80.0	80.1	0.000	-99.871	0.0
Ni	1A2e	Biomass	0.005	0.003	9.5	80.0	80.6	0.000	-52.938	0.0
Ni	1A2e	Liquid	1.007	0.091	9.6	80.0	80.6	0.576	-90.951	0.1
Ni	1A2e	Other	0.003	0.001	10.0	80.0	80.6	0.000	-61.565	0.0
Ni	1A2e	Peat	0.138	0.082	5.0	80.0	80.2	0.465	-40.196	0.1
Ni	1A2e	Solid	1.401	0.014	5.5	80.0	80.2	0.013	-99.001	0.0
Ni	1A2f	Biomass	0.000	0.002	13.9	80.0	81.2	0.000	2070.191	0.0
Ni	1A2f	Liquid	0.676	0.049	4.3	80.0	80.1	0.165	-92.730	0.1
Ni	1A2f	Other		0.001	30.0		30.0	0.000	NA	0.0
Ni	1A2f	Solid	2.771	0.651	4.5	80.0	80.1	29.040	-76.512	0.9
Ni	1A2gvii	Gaseous	0.000	0.000	5.0	100.0	100.1	0.000	-48.380	0.0
Ni	1A2gvii	Liquid	0.020	0.026	5.0	100.0	100.1	0.070	26.412	0.0

Ni	1A2gviii	Biomass	0.212	0.107	9.5	80.0	80.6	0.798	-49.355	0.2
Ni	1A2gviii	Liquid	1.361	0.059	4.0	80.0	80.1	0.236	-95.693	0.1
Ni	1A2gviii	Other	0.021	0.009	9.5	80.0	80.6	0.006	-56.814	0.0
Ni	1A2gviii	Peat	0.002	0.002	9.9	80.0	80.6	0.000	-30.143	0.0
Ni	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	114.908	0.0
Ni	1A3bi	Gasoline	0.004	0.003	2.0	100.0	100.0	0.001	-33.990	0.0
Ni	1A3bii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	16.253	0.0
Ni	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Ni	1A3biii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	35.820	0.0
Ni	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Ni	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	156.615	0.0
Ni	1A3bvi		0.164	0.186	1.0	100.0	100.0	3.701	13.479	0.3
Ni	1A3c	Liquid	0.004	0.001	2.0	100.0	100.0	0.000	-66.654	0.0
Ni	1A3dii	Liquid	1.280	0.245	13.7	100.0	100.9	6.518	-80.881	0.4
Ni	1A4ai	Biomass	0.058	0.086	20.0	80.0	82.5	0.540	48.527	0.1
Ni	1A4ai	Liquid	3.134	0.404	15.0	80.0	81.4	11.569	-87.098	0.6
Ni	1A4ai	Peat	0.017	0.013	15.0	80.0	81.4	0.011	-24.978	0.0
Ni	1A4aii	Liquid	0.009	0.007	12.8	100.0	100.8	0.005	-24.156	0.0
Ni	1A4bi	Biomass	1.239	1.421	20.0	80.0	82.5	146.543	14.689	2.1
Ni	1A4bi	Liquid	0.555	0.007	15.0	80.0	81.4	0.003	-98.811	0.0
Ni	1A4bi	Peat	0.091	0.020	15.0	80.0	81.4	0.027	-78.462	0.0
Ni	1A4bi	Solid	0.296	0.002	20.0	80.0	82.5	0.000	-99.459	0.0
Ni	1A4bii	Liquid	0.003	0.004	11.7	100.0	100.7	0.002	31.372	0.0
Ni	1A4ci	Biomass	0.195	0.222	20.0	80.0	82.5	3.570	13.728	0.3
Ni	1A4ci	Liquid	0.971	0.065	15.0	80.0	81.4	0.303	-93.262	0.1
Ni	1A4ci	Peat	0.056	0.180	10.0	80.0	80.6	2.257	222.000	0.3
Ni	1A4ci	Solid	0.035	0.000	20.0	80.0	82.5	0.000	-99.140	0.0
Ni	1A4cii	Liquid	0.021	0.017	14.5	100.0	101.0	0.030	-18.597	0.0
Ni	1A4ciii	Liquid	0.056	0.031	15.0	100.0	101.1	0.106	-43.858	0.1
Ni	1A5a	Biomass	0.010	0.494	10.0	80.0	80.6	16.931	4743.242	0.7
Ni	1A5a	Liquid	2.531	0.888	19.3	80.0	82.3	56.970	-64.932	1.3
Ni	1B1b		0.002	0.018	30.0		30.0	0.003	801.000	0.0
Ni	2B10a		1.052	0.047	30.0		30.0	0.021	-95.551	0.0
Ni	2C1		2.002	0.651	30.0		30.0	4.075	-67.480	0.4
Ni	2C2		0.017	0.035	30.0		30.0	0.011	102.941	0.0
Ni	2C7a		0.508	0.000	60.0		60.0	0.000	-99.951	0.0
Ni	2C7b		5.000	1.266	30.0		30.0	15.402	-74.680	0.7
Ni	2C7c		31.000	0.021	30.0		30.0	0.004	-99.933	0.0
Ni	2G		0.025	0.020	35.0	400.0	401.5	0.655	-23.348	0.1
Ni	3F		0.002	0.001	30.0	100.0	104.4	0.000	-37.203	0.0
Ni	5C1bv		0.000	0.001	10.0	900.0	900.1	0.003	336.941	0.0
Total			78.439	9.677			18.9		-87.662	3.3

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Zn	1A1a	Biomass	2.327	12.349	5.3	80.0	80.2	71.585	430.767	2.1
Zn	1A1a	Liquid	0.170	0.008	5.1	80.0	80.2	0.000	-95.473	0.0
Zn	1A1a	Other	0.016	3.337	9.9	80.0	80.6	5.285	20952.660	0.6
Zn	1A1a	Peat	2.706	1.883	2.2	80.0	80.0	1.658	-30.420	0.3
Zn	1A1a	Solid	28.018	0.321	25.4	80.0	83.9	0.053	-98.853	0.1
Zn	1A1b	Liquid	0.009	0.000	2.0	80.0	80.0	0.000	-97.398	0.0
Zn	1A1b	Solid	3.951	5.591	3.0	80.0	80.1	14.634	41.533	0.9
Zn	1A2a	Biomass		0.007	10.0	80.0	80.6	0.000	NA	0.0
Zn	1A2a	Liquid	0.018	0.002	30.0		30.0	0.000	-89.826	0.0
Zn	1A2b	Liquid	0.005	0.000	5.0	80.0	80.2	0.000	-92.647	0.0
Zn	1A2c	Biomass	0.014	0.004	5.0	80.0	80.2	0.000	-69.417	0.0
Zn	1A2c	Liquid	0.040	0.012	4.4	80.0	80.1	0.000	-70.860	0.0
Zn	1A2c	Solid	1.219	0.005	2.9	80.0	80.1	0.000	-99.592	0.0
Zn	1A2d	Biomass	10.754	1.567	6.6	80.0	80.3	1.155	-85.430	0.3
Zn	1A2d	Liquid	0.110	0.165	28.1	80.0	84.8	0.014	51.048	0.0
Zn	1A2d	Other	0.016	0.163	10.0	80.0	80.6	0.013	939.246	0.0
Zn	1A2d	Peat	0.999	0.010	16.5	80.0	81.7	0.000	-98.970	0.0
Zn	1A2d	Solid	3.342	0.029	3.7	80.0	80.1	0.000	-99.118	0.0
Zn	1A2e	Biomass	0.123	0.060	9.5	80.0	80.6	0.002	-51.438	0.0
Zn	1A2e	Liquid	0.040	0.004	9.6	80.0	80.6	0.000	-90.967	0.0
Zn	1A2e	Other	0.004	0.028	10.0	80.0	80.6	0.000	707.140	0.0
Zn	1A2e	Peat	0.328	0.195	5.0	80.0	80.2	0.018	-40.517	0.0
Zn	1A2e	Solid	2.627	0.055	17.3	80.0	81.8	0.001	-97.916	0.0
Zn	1A2f	Biomass	0.003	0.036	10.0	80.0	80.6	0.001	1315.847	0.0
Zn	1A2f	Liquid	0.327	0.003	3.2	80.0	80.1	0.000	-99.178	0.0
Zn	1A2f	Other		0.825	10.0	80.0	80.6	0.323	NA	0.1
Zn	1A2f	Solid	5.497	2.400	2.5	80.0	80.0	2.695	-56.337	0.4
Zn	1A2gvii	Gaseous	0.007	0.004	5.0	100.0	100.1	0.000	-48.380	0.0
Zn	1A2gvii	Liquid	0.289	0.365	5.0	100.0	100.1	0.098	26.412	0.1
Zn	1A2gviii	Biomass	4.949	2.515	9.6	80.0	80.6	2.998	-49.189	0.4
Zn	1A2gviii	Liquid	0.055	0.004	3.2	80.0	80.1	0.000	-92.925	0.0
Zn	1A2gviii	Other	0.221	0.716	10.0	80.0	80.6	0.243	223.140	0.1
Zn	1A2gviii	Peat	0.005	0.007	10.0	80.0	80.6	0.000	42.442	0.0
Zn	1A3bi	Diesel oil	0.006	0.013	1.0	100.0	100.0	0.000	114.908	0.0
Zn	1A3bi	Gasoline	0.059	0.039	2.0	100.0	100.0	0.001	-33.990	0.0

Zn	1A3bii	Diesel oil	0.005	0.005	1.0	100.0	100.0	0.000	16.253	0.0
Zn	1A3bii	Gasoline	0.002	0.000	2.0	100.0	100.0	0.000	-93.664	0.0
Zn	1A3biii	Diesel oil	0.018	0.024	1.0	100.0	100.0	0.000	35.820	0.0
Zn	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0
Zn	1A3biv	Gasoline	0.000	0.001	2.0	100.0	100.0	0.000	156.615	0.0
Zn	1A3bvi		18.420	18.604	1.0	100.0	100.0	252.808	1.002	3.9
Zn	1A3c	Liquid	0.060	0.020	2.0	100.0	100.0	0.000	-66.654	0.0
Zn	1A3dii	Liquid	0.117	0.077	13.7	100.0	100.9	0.004	-34.308	0.0
Zn	1A4ai	Biomass	1.355	2.012	20.0	80.0	82.5	2.010	48.527	0.3
Zn	1A4ai	Liquid	0.125	0.016	15.0	80.0	81.4	0.000	-87.098	0.0
Zn	1A4ai	Peat	0.040	0.030	15.0	80.0	81.4	0.000	-24.978	0.0
Zn	1A4aai	Liquid	0.134	0.101	12.8	100.0	100.8	0.008	-24.156	0.0
Zn	1A4bi	Biomass	28.903	33.149	20.0	80.0	82.5	545.701	14.689	5.7
Zn	1A4bi	Liquid	0.022	0.000	15.0	80.0	81.4	0.000	-98.811	0.0
Zn	1A4bi	Peat	0.215	0.046	15.0	80.0	81.4	0.001	-78.462	0.0
Zn	1A4bi	Solid	0.555	0.003	20.0	80.0	82.5	0.000	-99.459	0.0
Zn	1A4bii	Liquid	0.044	0.058	11.7	100.0	100.7	0.002	31.372	0.0
Zn	1A4ci	Biomass	4.550	5.175	20.0	80.0	82.5	13.296	13.731	0.9
Zn	1A4ci	Liquid	0.039	0.003	15.0	80.0	81.4	0.000	-93.262	0.0
Zn	1A4ci	Peat	0.132	0.425	10.0	80.0	80.6	0.086	222.000	0.1
Zn	1A4ci	Solid	0.072	0.006	20.0	80.0	82.5	0.000	-91.168	0.0
Zn	1A4cii	Liquid	0.293	0.239	14.5	100.0	101.0	0.042	-18.597	0.0
Zn	1A4ciii	Liquid	0.067	0.037	15.0	100.0	101.1	0.001	-43.858	0.0
Zn	1A5a	Biomass	0.238	11.524	10.0	80.0	80.6	63.048	4743.242	1.9
Zn	1A5a	Liquid	0.111	0.047	19.3	80.0	82.3	0.001	-57.819	0.0
Zn	1B1b		0.160	0.037	30.0		30.0	0.000	-76.938	0.0
Zn	2B10a		0.010	0.250	60.0		60.0	0.016	2400.000	0.0
Zn	2C1		303.559	1.784	30.0		30.0	0.209	-99.412	0.1
Zn	2C2		0.100	0.579	30.0		30.0	0.022	479.000	0.0
Zn	2C3		0.127	0.000	30.0		30.0	0.000	-99.953	0.0
Zn	2C6		90.174	9.205	30.0		30.0	5.570	-89.792	0.6
Zn	2C7a		2.563	0.002	30.0		30.0	0.000	-99.930	0.0
Zn	2C7c		160.391	0.688	30.0		30.0	0.031	-99.571	0.0
Zn	2G		0.116	0.127	35.0	669.0	669.9	0.526	8.785	0.2
Zn	3F		0.024	0.014	30.0	100.0	104.4	0.000	-43.226	0.0
Zn	5C1bv		0.001	0.005	10.0	900.0	900.1	0.002	336.941	0.0
Total			682.839	117.015			31.4		-82.863	7.6

Pollutant	NFR	Fuel	Base year emissions, g I-TEQ	Year 2020 emissions, g I-TEQ	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PCDD/F	1A1a	Biomass	0.151	1.526	61.9	1000.0	1001.9	26986.583	912.363	123.3
PCDD/F	1A1a	Gaseous	0.020	0.016	28.2	1000.0	1000.4	3.094	-18.073	1.3
PCDD/F	1A1a	Liquid	0.007	0.001	23.1	1000.0	1000.3	0.019	-82.425	0.1
PCDD/F	1A1a	Other	0.002	0.902	39.1	1000.0	1000.8	9402.634	47256.210	72.8
PCDD/F	1A1a	Peat	0.747	0.536	103.5	1000.0	1005.3	3352.459	-28.198	43.4
PCDD/F	1A1a	Solid	0.411	0.096	330.3	1000.0	1053.1	118.615	-76.576	8.2
PCDD/F	1A1b	Gaseous	0.012	0.023	2.9	1000.0	1000.0	6.184	92.946	1.9
PCDD/F	1A1b	Liquid	0.001	0.001	4.9	1000.0	1000.0	0.015	21.753	0.1
PCDD/F	1A1b	Solid	0.011	0.015	3.0	1000.0	1000.0	2.565	41.533	1.2
PCDD/F	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCDD/F	1A2a	Gaseous	0.008	0.007	1.9	1000.0	1000.0	0.517	-11.211	0.5
PCDD/F	1A2a	Liquid	0.001	0.000	2.0	1000.0	1000.0	0.000	-88.827	0.0
PCDD/F	1A2b	Gaseous	0.000	0.000	9.4	1000.0	1000.0	0.000	33.742	0.0
PCDD/F	1A2b	Liquid	0.000	0.000	3.0	1000.0	1000.0	0.001	-40.395	0.0
PCDD/F	1A2b	Solid	0.002	0.001	5.0	1000.0	1000.0	0.006	-58.681	0.1
PCDD/F	1A2c	Biomass	0.012	0.000	5.0	1000.0	1000.0	0.000	-98.929	0.0
PCDD/F	1A2c	Gaseous	0.004	0.007	3.8	1000.0	1000.0	0.489	48.855	0.5
PCDD/F	1A2c	Liquid	0.002	0.000	4.3	1000.0	1000.0	0.001	-77.114	0.0
PCDD/F	1A2c	Solid	0.013	0.000	2.9	1000.0	1000.0	0.000	-99.892	0.0
PCDD/F	1A2d	Biomass	0.808	0.442	128.7	1000.0	1008.3	2294.083	-45.242	35.9
PCDD/F	1A2d	Gaseous	0.016	0.027	348.4	1000.0	1059.0	9.523	73.536	2.3
PCDD/F	1A2d	Liquid	0.006	0.043	469.2	1000.0	1104.6	26.191	666.676	3.8
PCDD/F	1A2d	Other	0.009	0.210	407.0	1000.0	1079.6	592.615	2175.964	18.3
PCDD/F	1A2d	Peat	0.149	0.079	27.9	1000.0	1000.4	72.590	-46.929	6.4
PCDD/F	1A2d	Solid	0.045	0.002	3.7	1000.0	1000.0	0.046	-95.536	0.2
PCDD/F	1A2e	Biomass	0.007	0.005	9.5	1000.0	1000.0	0.319	-20.945	0.4
PCDD/F	1A2e	Gaseous	0.000	0.000	4.5	1000.0	1000.0	0.001	-50.896	0.0
PCDD/F	1A2e	Liquid	0.002	0.000	3.5	1000.0	1000.0	0.001	-81.718	0.0
PCDD/F	1A2e	Other	0.000	0.001	10.0	1000.0	1000.0	0.008	707.140	0.1
PCDD/F	1A2e	Peat	0.028	0.013	5.0	1000.0	1000.0	1.924	-53.274	1.0
PCDD/F	1A2e	Solid	0.007	0.002	4.8	1000.0	1000.0	0.028	-77.861	0.1
PCDD/F	1A2f	Biomass	0.000	0.003	10.0	1000.0	1000.0	0.074	3257.940	0.2
PCDD/F	1A2f	Gaseous	0.001	0.002	4.6	1000.0	1000.0	0.030	12.361	0.1
PCDD/F	1A2f	Liquid	0.001	0.001	4.4	1000.0	1000.0	0.015	-7.259	0.1
PCDD/F	1A2f	Other		0.004	500.0		500.0	0.039	NA	0.1

PCDD/F	1A2f	Solid	0.024	0.005	71.9	1000.0	1002.6	0.281	-79.829	0.4
PCDD/F	1A2gviii	Biomass	0.199	0.178	9.6	1000.0	1000.0	365.322	-10.654	14.3
PCDD/F	1A2gviii	Gaseous	0.001	0.011	462.0	1000.0	1101.6	1.640	1957.857	1.0
PCDD/F	1A2gviii	Liquid	0.003	0.001	4.4	1000.0	1000.0	0.004	-76.672	0.0
PCDD/F	1A2gviii	Other	0.192	0.016	156.9	1000.0	1012.2	3.066	-91.627	1.3
PCDD/F	1A2gviii	Peat	0.004	0.009	15.2	1000.0	1000.1	0.896	130.764	0.7
PCDD/F	1A3bi	Diesel oil	0.008	0.311	1.0	1000.0	1000.0	1118.487	3865.123	25.1
PCDD/F	1A3bi	Gasoline	0.962	0.198	2.0	1000.0	1000.0	450.954	-79.457	15.9
PCDD/F	1A3bii	Diesel oil	0.004	0.163	1.0	1000.0	1000.0	308.118	3759.546	13.2
PCDD/F	1A3bii	Gasoline	0.024	0.001	2.0	1000.0	1000.0	0.009	-96.270	0.1
PCDD/F	1A3biii	Diesel oil	0.217	0.075	1.0	1000.0	1000.0	64.190	-65.582	6.0
PCDD/F	1A3biv	Diesel oil		0.003	1.0	1000.0	1000.0	0.104	NA	0.2
PCDD/F	1A3biv	Gasoline	0.014	0.016	2.0	1000.0	1000.0	3.076	15.823	1.3
PCDD/F	1A3dii	Liquid	0.026	0.010	13.7	1000.0	1000.1	1.219	-59.854	0.8
PCDD/F	1A3ei	Gaseous	0.000	0.000	20.0	1000.0	1000.2	0.000	-57.478	0.0
PCDD/F	1A4ai	Biomass	0.041	0.060	20.0	1000.0	1000.2	42.042	48.527	4.9
PCDD/F	1A4ai	Gaseous	0.000	0.000	10.0	1000.0	1000.0	0.003	46.033	0.0
PCDD/F	1A4ai	Liquid	0.012	0.005	13.0	1000.0	1000.1	0.235	-62.787	0.4
PCDD/F	1A4ai	Peat	0.002	0.002	15.0	1000.0	1000.1	0.029	-24.978	0.1
PCDD/F	1A4bi	Biomass	0.867	0.994	20.0	1000.0	1000.2	11414.016	14.689	80.2
PCDD/F	1A4bi	Gaseous	0.000	0.001	9.5	1000.0	1000.0	0.003	39.603	0.0
PCDD/F	1A4bi	Liquid	0.019	0.005	15.0	1000.0	1000.1	0.249	-75.841	0.4
PCDD/F	1A4bi	Other	0.000	0.000	10.0	1000.0	1000.0	0.000	-97.674	0.0
PCDD/F	1A4bi	Peat	0.011	0.002	15.0	1000.0	1000.1	0.069	-78.462	0.2
PCDD/F	1A4bi	Solid	0.001	0.000	20.0	1000.0	1000.2	0.000	-99.459	0.0
PCDD/F	1A4ci	Biomass	0.137	0.156	20.0	1000.0	1000.2	279.574	14.020	12.5
PCDD/F	1A4ci	Gaseous	0.000	0.000	30.0	1000.0	1000.4	0.000	-83.529	0.0
PCDD/F	1A4ci	Liquid	0.004	0.002	14.3	1000.0	1000.1	0.055	-46.984	0.2
PCDD/F	1A4ci	Peat	0.007	0.023	10.0	1000.0	1000.0	5.862	222.000	1.8
PCDD/F	1A4ci	Solid	0.001	0.000	20.0	1000.0	1000.2	0.001	-46.137	0.0
PCDD/F	1A4ciii	Liquid	0.007	0.004	15.0	1000.0	1000.1	0.190	-43.858	0.3
PCDD/F	1A5a	Biomass	0.007	0.346	10.0	1000.0	1000.0	1379.186	4743.242	27.9
PCDD/F	1A5a	Gaseous	0.002	0.004	18.0	1000.0	1000.2	0.146	44.152	0.3
PCDD/F	1A5a	Liquid	0.008	0.004	19.3	1000.0	1000.2	0.224	-45.864	0.4
PCDD/F	1B1b		1.461	0.023	500.0		500.0	1.526	-98.426	0.9
PCDD/F	2A1		0.029	0.020	500.0		500.0	1.154	-32.187	0.8
PCDD/F	2A2		0.038	0.026	30.0	1000.0	1000.4	7.512	-33.016	2.1
PCDD/F	2A3		0.005	0.000	30.0	1000.0	1000.4	0.001	-94.348	0.0
PCDD/F	2B10a		3.000	0.630	500.0		500.0	1144.763	-79.000	25.4
PCDD/F	2C1		4.552	0.721	500.0		500.0	1500.480	-84.154	29.1
PCDD/F	2C3		0.000	0.000	10.0	1000.0	1000.0	0.000	2.006	0.0
PCDD/F	2C6		0.038	0.065	10.0	1000.0	1000.0	48.586	69.861	5.2
PCDD/F	2C7a		0.001	0.237	10.2	1000.0	1000.1	650.247	26218.594	19.1
PCDD/F	2D3b		0.016	0.011	30.0	1000.0	1000.4	1.397	-30.126	0.9
PCDD/F	2G		0.001	0.000	35.0	100.0	105.9	0.000	-63.912	0.0
PCDD/F	2L		0.029	0.022	60.0	1000.0	1001.8	5.705	-24.734	1.8

PCDD/F	5C1bv	0.000	0.001	10.0	900.0	900.1	0.008	336.941	0.1
PCDD/F	5E	3.034	0.982	35.0	1000.0	1000.6	11144.554	-67.630	79.2
Total		17.546	9.310			269.8		-46.940	202.5

Pollutant	NFR	Fuel	Base year emissions, t	Year 2020 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PAH-4	1A1a	Biomass	0.019	0.208	102.4	1000.0	1005.2	131.721	990.618	16.1
PAH-4	1A1a	Liquid	0.050	0.012	183.4	1000.0	1016.7	0.422	-76.740	0.9
PAH-4	1A1a	Other	0.000	0.240	217.7	1000.0	1023.4	182.039	208173.758	18.9
PAH-4	1A1a	Peat	0.043	0.033	141.0	1000.0	1009.9	3.412	-21.820	2.6
PAH-4	1A1a	Solid	0.001	0.000	337.4	1000.0	1055.4	0.000	-81.641	0.0
PAH-4	1A1b	Liquid	0.006	0.007	4.9	1000.0	1000.0	0.130	12.101	0.5
PAH-4	1A1b	Solid	0.000	0.000	3.0	1000.0	1000.0	0.000	41.533	0.0
PAH-4	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PAH-4	1A2a	Liquid	0.005	0.001	2.0	1000.0	1000.0	0.001	-87.979	0.0
PAH-4	1A2a	Solid	0.000	0.000	3.0	1000.0	1000.0	0.000	-96.790	0.0
PAH-4	1A2b	Liquid	0.003	0.002	3.0	1000.0	1000.0	0.010	-34.889	0.1
PAH-4	1A2b	Solid	0.000	0.000	4.7	1000.0	1000.0	0.000	-89.301	0.0
PAH-4	1A2c	Biomass	0.002	0.000	5.0	1000.0	1000.0	0.000	-98.929	0.0
PAH-4	1A2c	Liquid	0.010	0.003	7.3	1000.0	1000.0	0.035	-64.653	0.3
PAH-4	1A2c	Solid	0.000	0.000	2.9	1000.0	1000.0	0.000	-99.892	0.0
PAH-4	1A2d	Biomass	0.103	0.120	277.4	1000.0	1037.8	46.894	16.526	9.6
PAH-4	1A2d	Liquid	0.039	0.040	277.2	1000.0	1037.7	5.120	1.690	3.2
PAH-4	1A2d	Other	0.001	0.012	10.0	1000.0	1000.0	0.443	2072.399	0.9
PAH-4	1A2d	Peat	0.009	0.006	30.9	1000.0	1000.5	0.102	-31.747	0.4
PAH-4	1A2d	Solid	0.000	0.000	3.7	1000.0	1000.0	0.000	-95.536	0.0
PAH-4	1A2e	Biomass	0.001	0.001	9.5	1000.0	1000.0	0.001	-20.945	0.1
PAH-4	1A2e	Liquid	0.010	0.002	3.5	1000.0	1000.0	0.009	-83.610	0.1
PAH-4	1A2e	Other	0.000	0.000	10.0	1000.0	1000.0	0.000	707.140	0.0
PAH-4	1A2e	Peat	0.002	0.001	5.0	1000.0	1000.0	0.002	-53.274	0.1
PAH-4	1A2e	Solid	0.000	0.000	4.8	1000.0	1000.0	0.000	-77.861	0.0
PAH-4	1A2f	Biomass	0.000	0.000	10.0	1000.0	1000.0	0.000	3257.940	0.0
PAH-4	1A2f	Liquid	0.008	0.007	4.4	1000.0	1000.0	0.128	-20.154	0.5
PAH-4	1A2f	Other		0.002	10.0	1000.0	1000.0	0.012	NA	0.2
PAH-4	1A2f	Solid	0.000	0.000	2.5	1000.0	1000.0	0.000	-56.940	0.0
PAH-4	1A2gvii	Gaseous	0.001	0.000	5.0	1000.0	1000.0	0.000	-48.380	0.0

PAH-4	1A2gvii	Liquid	0.023	0.029	5.0	1000.0	1000.0	2.569	26.412	2.2
PAH-4	1A2gviii	Biomass	0.026	0.024	9.6	1000.0	1000.0	1.687	-7.504	1.8
PAH-4	1A2gviii	Liquid	0.016	0.004	3.6	1000.0	1000.0	0.056	-73.095	0.3
PAH-4	1A2gviii	Other	0.017	0.120	10.0	1000.0	1000.0	43.580	610.998	9.2
PAH-4	1A2gviii	Peat	0.000	0.001	10.0	1000.0	1000.0	0.001	203.054	0.1
PAH-4	1A3bi	Diesel oil	0.025	0.054	1.0	1000.0	1000.0	8.859	114.908	4.2
PAH-4	1A3bi	Gasoline	0.047	0.031	2.0	1000.0	1000.0	2.888	-33.990	2.4
PAH-4	1A3bii	Diesel oil	0.015	0.017	1.0	1000.0	1000.0	0.856	16.253	1.3
PAH-4	1A3bii	Gasoline	0.001	0.000	2.0	1000.0	1000.0	0.000	-93.664	0.0
PAH-4	1A3biii	Diesel oil	0.077	0.105	1.0	1000.0	1000.0	33.273	35.820	8.1
PAH-4	1A3biv	Diesel oil		0.000	1.0	1000.0	1000.0	0.000	NA	0.0
PAH-4	1A3biv	Gasoline	0.000	0.001	2.0	1000.0	1000.0	0.005	156.615	0.1
PAH-4	1A3c	Liquid	0.005	0.002	2.0	1000.0	1000.0	0.008	-66.654	0.1
PAH-4	1A4ai	Biomass	0.001	0.001	20.0	200.0	201.0	0.000	40.538	0.0
PAH-4	1A4ai	Liquid	0.074	0.026	13.0	1000.0	1000.1	2.033	-64.728	2.0
PAH-4	1A4ai	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	-24.978	0.0
PAH-4	1A4aii	Liquid	0.011	0.008	12.8	1000.0	1000.1	0.197	-24.156	0.6
PAH-4	1A4bi	Biomass	17.153	16.560	20.0	200.0	201.0	33304.731	-3.457	255.4
PAH-4	1A4bi	Liquid	0.109	0.026	15.0	1000.0	1000.1	2.035	-76.060	2.0
PAH-4	1A4bi	Other	0.000	0.000	10.0	1000.0	1000.0	0.000	-97.674	0.0
PAH-4	1A4bi	Peat	0.001	0.000	15.0	1000.0	1000.1	0.000	-78.462	0.0
PAH-4	1A4bi	Solid	0.000	0.000	20.0	1000.0	1000.2	0.000	-99.459	0.0
PAH-4	1A4bii	Liquid	0.004	0.005	11.7	1000.0	1000.1	0.064	31.372	0.4
PAH-4	1A4ci	Biomass	0.003	0.004	20.0	200.0	201.0	0.002	15.598	0.1
PAH-4	1A4ci	Liquid	0.025	0.012	14.3	1000.0	1000.1	0.458	-50.372	0.9
PAH-4	1A4ci	Peat	0.000	0.001	10.0	1000.0	1000.0	0.005	222.000	0.1
PAH-4	1A4ci	Solid	0.000	0.000	20.0	1000.0	1000.2	0.000	-46.137	0.0
PAH-4	1A4cii	Liquid	0.023	0.019	14.5	1000.0	1000.1	1.097	-18.597	1.5
PAH-4	1A5a	Biomass	0.001	0.044	10.0	1000.0	1000.0	5.941	4743.242	3.4
PAH-4	1A5a	Liquid	0.045	0.020	19.3	1000.0	1000.2	1.210	-55.364	1.5
PAH-4	1B1b		0.258	0.404	500.0		500.0	122.509	56.423	15.5
PAH-4	2A1		0.000	0.000	500.0		500.0	0.000	110.377	0.0
PAH-4	2C1		0.132	0.009	10.0	1000.0	1000.0	0.236	-93.283	0.7
PAH-4	2C2			0.000	500.0		500.0	0.000	NA	0.0
PAH-4	2D3i		0.020	0.011	40.0	376.0	378.1	0.054	-43.573	0.3
PAH-4	2G		0.001	0.001	35.0	100.0	105.9	0.000	-63.939	0.0
PAH-4	3F		0.000	0.000	30.0	1000.0	1000.4	0.000	-46.994	0.0
PAH-4	5C1bv		0.000	0.001	10.0	900.0	900.1	0.003	336.941	0.1
Total			18.427	18.239			184.1		-1.023	257.7

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2020 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
HCB	1A1a	Biomass	0.037	0.424	5.0	1000.0	1000.0	401.152	1060.853	16.8
HCB	1A1a	Solid	0.001	0.000	1.0	1000.0	1000.0	0.000	-69.095	0.0
HCB	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A2a	Solid	0.003	0.000	3.0	1000.0	1000.0	0.000	-85.006	0.0
HCB	1A2b	Solid	0.002	0.000	4.7	1000.0	1000.0	0.000	-93.905	0.0
HCB	1A2c	Biomass	0.003	0.000	5.0	1000.0	1000.0	0.000	-98.929	0.0
HCB	1A2c	Solid	0.002	0.000	5.0	1000.0	1000.0	0.000	-99.997	0.0
HCB	1A2d	Biomass	0.191	0.125	4.8	1000.0	1000.0	34.674	-34.906	4.9
HCB	1A2d	Solid	0.007	0.000	3.7	1000.0	1000.0	0.000	-95.536	0.0
HCB	1A2e	Biomass	0.002	0.001	9.5	1000.0	1000.0	0.004	-20.945	0.0
HCB	1A2e	Solid	0.001	0.000	4.8	1000.0	1000.0	0.000	-77.861	0.0
HCB	1A2f	Biomass	0.000	0.001	10.0	1000.0	1000.0	0.001	3257.940	0.0
HCB	1A2f	Solid	0.004	0.001	4.4	1000.0	1000.0	0.002	-77.820	0.0
HCB	1A2gviii	Biomass	0.049	0.042	9.6	1000.0	1000.0	4.012	-13.532	1.7
HCB	1A2gviii		0.143	0.099	30.0	900.0	900.5	17.784	-30.760	3.5
HCB	1A3bi	Diesel oil	0.020	0.042	1.0	1000.0	1000.0	4.016	114.908	1.7
HCB	1A3bi	Gaseous		0.001	3.0	1000.0	1000.0	0.002	NA	0.0
HCB	1A3bi	Gasoline	0.108	0.071	2.0	1000.0	1000.0	11.251	-33.990	2.8
HCB	1A3bii	Diesel oil	0.015	0.018	1.0	1000.0	1000.0	0.707	16.253	0.7
HCB	1A3bii	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A3bii	Gasoline	0.004	0.000	2.0	1000.0	1000.0	0.000	-93.664	0.0
HCB	1A3biii	Diesel oil	0.059	0.081	1.0	1000.0	1000.0	14.549	35.820	3.2
HCB	1A3biii	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A3biv	Diesel oil		0.000	1.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A3biv	Gasoline	0.001	0.002	2.0	1000.0	1000.0	0.010	156.615	0.1
HCB	1A3dii	Liquid	0.010	0.005	13.7	1000.0	1000.1	0.066	-45.782	0.2
HCB	1A4ai	Biomass	0.010	0.014	20.0	1000.0	1000.2	0.461	50.471	0.6
HCB	1A4bi	Biomass	0.206	0.237	20.0	1000.0	1000.2	125.229	14.689	9.4
HCB	1A4bi	Solid	0.007	0.000	20.0	1000.0	1000.2	0.000	-99.459	0.0
HCB	1A4ci	Biomass	0.033	0.037	20.0	1000.0	1000.2	3.048	13.662	1.5
HCB	1A4ci	Solid		0.001	20.0	1000.0	1000.2	0.005	NA	0.1
HCB	1A4ciii	Liquid	0.004	0.002	15.0	1000.0	1000.1	0.014	-43.858	0.1
HCB	1A5a	Biomass		0.016	10.0	1000.0	1000.0	0.605	NA	0.7
HCB	1A5a	Liquid	0.001	0.001	30.0	1000.0	1000.4	0.001	16.611	0.0
HCB	2B10a		29.000	13.200	50.0		50.0	972.630	-54.483	26.2

HCB	2C1	0.096	0.016	10.0	900.0	900.1	0.454	-83.456	0.6
HCB	2C3	0.033	0.033	10.0	1000.0	1000.0	2.478	2.006	1.3
HCB	2C7a	5.514	6.673	10.0	1000.0	1000.0	99437.226	21.010	264.5
HCB	2D3i	0.004	0.001	40.0	1000.0	1000.8	0.003	-72.134	0.0
HCB	3Df	0.057	0.010	10.0	1000.0	1000.0	0.224	-82.493	0.4
HCB	5C1bv	0.001	0.005	10.0	900.0	900.1	0.045	336.941	0.2
Total		35.677	21.163				317.9	-40.682	266.6

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2020 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2020, fraction	Inventory trend in national emissions for year 2020 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PCB	1A1a	Biomass	0.026	0.297	5.0	1000.0	1000.0	216.268	1060.853	14.7
PCB	1A1a	Solid	0.000	0.000	1.0	1000.0	1000.0	0.000	-69.095	0.0
PCB	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A2a	Solid	0.784	0.118	3.0	1000.0	1000.0	33.962	-85.006	5.8
PCB	1A2b	Solid	0.551	0.034	4.7	1000.0	1000.0	2.767	-93.905	1.7
PCB	1A2c	Biomass	0.000	0.000	5.0	1000.0	1000.0	0.000	-98.929	0.0
PCB	1A2c	Solid	0.538	0.000	5.0	1000.0	1000.0	0.000	-99.997	0.0
PCB	1A2d	Biomass	0.002	0.001	4.8	1000.0	1000.0	0.005	-34.906	0.1
PCB	1A2d	Solid	1.907	0.085	3.7	1000.0	1000.0	17.798	-95.536	4.2
PCB	1A2e	Biomass	0.000	0.000	9.5	1000.0	1000.0	0.000	-20.945	0.0
PCB	1A2e	Solid	0.298	0.066	4.8	1000.0	1000.0	10.677	-77.861	3.3
PCB	1A2f	Biomass	0.000	0.000	10.0	1000.0	1000.0	0.000	3257.940	0.0
PCB	1A2f	Solid	1.037	0.230	4.4	1000.0	1000.0	129.881	-77.820	11.4
PCB	1A2gviii	Biomass	0.001	0.001	9.6	1000.0	1000.0	0.001	-13.532	0.0
PCB	1A2gviii		0.135	0.026	30.0	900.0	900.5	1.316	-80.945	1.1
PCB	1A3bi	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	693.961	0.0
PCB	1A3bi	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-79.753	0.0
PCB	1A3bii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	674.066	0.0
PCB	1A3bii	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-97.997	0.0
PCB	1A3biii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-60.220	0.0
PCB	1A3biv	Diesel oil		0.000	1.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A3biv	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-70.660	0.0
PCB	1A3dii	Liquid	0.024	0.006	13.7	1000.0	1000.1	0.075	-76.954	0.3
PCB	1A4ai	Biomass	0.115	0.172	20.0	1000.0	1000.2	73.080	50.471	8.5
PCB	1A4ai	Liquid	0.002	0.001	13.0	1000.0	1000.1	0.001	-62.763	0.0
PCB	1A4ai	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	-8.460	0.0

PCB	1A4bi	Biomass	2.477	2.841	20.0	1000.0	1000.2	19840.572	14.689	140.7
PCB	1A4bi	Liquid	0.003	0.001	15.0	1000.0	1000.1	0.002	-76.102	0.0
PCB	1A4bi	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	-78.462	0.0
PCB	1A4bi	Solid	0.000	0.000	20.0	1000.0	1000.2	0.000	-99.459	0.0
PCB	1A4ci	Biomass	0.390	0.443	20.0	1000.0	1000.2	482.921	13.662	22.0
PCB	1A4ci	Liquid	0.001	0.000	14.3	1000.0	1000.1	0.000	-83.086	0.0
PCB	1A4ci	Peat	0.000	0.000	10.0	1000.0	1000.0	0.000	219.480	0.0
PCB	1A4ci	Solid		0.000	20.0	1000.0	1000.2	0.000	NA	0.0
PCB	1A4ciii	Liquid	0.002	0.001	15.0	1000.0	1000.1	0.003	-43.858	0.1
PCB	1B1b		1.753	2.742	10.0	1000.0	1000.0	18477.857	56.423	135.8
PCB	2A1		3.298	2.878	10.0	1000.0	1000.0	20353.124	-12.741	142.5
PCB	2A2		0.000	0.000	30.0	1000.0	1000.4	0.000	-33.016	0.0
PCB	2C1		13.464	10.120	247.1	100.0	266.6	17876.507	-24.840	133.6
PCB	2C3		0.083	0.087	10.0	1000.0	1000.0	18.737	5.078	4.3
PCB	2C7a		0.001	0.000	10.0	67.0	67.7	0.000	-48.091	0.0
PCB	2C7c		0.002	0.012	30.0	1000.0	1000.4	0.330	558.974	0.6
PCB	5C1bv		0.003	0.014	10.0	900.0	900.1	0.370	336.941	0.6
Total			28.558	20.176			278.5		-29.351	278.2

Annex 7

(Updated March 2022, JM)

Energy Balance

Energy balances are available in Finland's PX-Web databases from http://pxnet2.stat.fi/PXWeb/pxweb/en/StatFin/StatFin_ene_ehk/stat-fin_ene_pxt_002.px/?rxid=5c37441a-ed98-40ad-bfb5-5f29f4898d81

One can select the years, fuels and quantity (TJ), Twh, Share (%) and Annual change (%) and make searches to create output files and graphs as presented below.

002 -- Total energy consumption by source (detailed)

The screenshot shows the PX-Web interface for selecting variables and table options. It features three main columns for selection: Year, Source, and Tiedot. Each column has a search box and a 'Beginning of row' checkbox. Below the selection area, there is a 'Number of selected data cells are: 0' message and a 'Continue' button. A dropdown menu is open, showing various table and chart layout options. The footer contains contact information for Tietokeskus.fi.

Year *	Source *	Tiedot *
Total 48 Selected 0	Total 26 Selected 0	Total 4 Selected 0
2012 2013 2014 2015 2016 2017	Diesel fuel Refinery gases etc. Town gas Light fuel oil Recycled fuels Recycled oil	Quantity, TJ TWh Share % Annual change %

Number of selected data cells are: 0 (maximum number allowed is 1,000,000)

Table - Layout 2
Chart - Line
Chart - Bar
Table - Layout 1
Tab delimited with heading
Semicolon delimited with heading
Excel (xlsx) with code and text column
Excel workbook (xml) with code and text
Excel workbook (xml)
Excel (xlsx)
Comma delimited with heading
PX-file
Space delimited with heading

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Energy balance data available from Finland's PX-Web databases