



FINLAND'S INFORMATIVE INVENTORY REPORT 2026

Air Pollutant Emissions 1980-2024

under the UNECE CLRTAP and the EU NECD

Part 7 - Annexes

March 2026

FINNISH ENVIRONMENT INSTITUTE

Climate solutions unit

Air pollution group

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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 2024 (2026 submission)

Updated March 2026 (TF)

NOx Implied emission factors in Finnish air pollutant inventory for 2024

2024	NOx	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.083174017	t/TJ
2024	NOx	1A1a	ANIMAL-BASED FUELS	0.097479304	t/TJ
2024	NOx	1A1a	ANTHRACITE	0.066826873	t/TJ
2024	NOx	1A1a	ASPHALTENE	0.029308812	t/TJ
2024	NOx	1A1a	BARK	0.070498069	t/TJ
2024	NOx	1A1a	BIO PELLETS (NON-WOOD)	0.069777766	t/TJ
2024	NOx	1A1a	BIO PYROLYSIS OIL	0.000546279	t/TJ
2024	NOx	1A1a	BIO-FUEL OIL	0.078345905	t/TJ
2024	NOx	1A1a	BIOLOGICAL SLURRY	8.385021824	t/TJ
2024	NOx	1A1a	BLAST FURNACE GAS	0.006138660	t/TJ
2024	NOx	1A1a	CHIPS FROM ROUNDWOOD	0.078321571	t/TJ
2024	NOx	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.077905339	t/TJ
2024	NOx	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.074969165	t/TJ
2024	NOx	1A1a	COAL (S=1.0%)	0.072542138	t/TJ
2024	NOx	1A1a	COKE OVEN GAS	0.006138673	t/TJ
2024	NOx	1A1a	CUTTER CHIPS ETC.	0.092232333	t/TJ
2024	NOx	1A1a	DEINKING WASTE	0.101619958	t/TJ
2024	NOx	1A1a	DEMOLITION WOOD	0.215435618	t/TJ
2024	NOx	1A1a	DIESEL OIL (S=001%)	0.156849950	t/TJ
2024	NOx	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.061260579	t/TJ
2024	NOx	1A1a	FOREST RESIDUE CHIPS	0.103441730	t/TJ
2024	NOx	1A1a	FOREST RESIDUE CHIPS	0.071604520	t/TJ
2024	NOx	1A1a	GASOIL (FOR NON-ROAD USE)	0.073708808	t/TJ
2024	NOx	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.013459529	t/TJ
2024	NOx	1A1a	HEAVY FUEL OIL (S<0,1%)	0.091704883	t/TJ
2024	NOx	1A1a	HEAVY FUEL OIL (S<0,5%)	0.238663132	t/TJ
2024	NOx	1A1a	HEAVY FUEL OIL (S<1%)	0.053038882	t/TJ
2024	NOx	1A1a	HYDROGEN	0.044751183	t/TJ
2024	NOx	1A1a	IMPREGNATED WOOD	0.064427289	t/TJ
2024	NOx	1A1a	INDUSTRIAL WASTE	0.135248255	t/TJ
2024	NOx	1A1a	LANDFILL GAS	0.023905275	t/TJ
2024	NOx	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.246751024	t/TJ
2024	NOx	1A1a	LIQUEFIED NATURAL GAS (LNG)	0.067347563	t/TJ
2024	NOx	1A1a	LIQUID GAS	0.143005863	t/TJ
2024	NOx	1A1a	MILLED PEAT	0.094722145	t/TJ
2024	NOx	1A1a	MOTOR GASOLINE (S=0.001%)	0.100000000	t/TJ
2024	NOx	1A1a	MUNICIPAL WASTE - unsorted	0.095301800	t/TJ
2024	NOx	1A1a	NAPHTHA	0.071428571	t/TJ
2024	NOx	1A1a	NATURAL GAS	0.041759214	t/TJ
2024	NOx	1A1a	NATURAL GAS	0.070000000	t/TJ
2024	NOx	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.077847370	t/TJ
2024	NOx	1A1a	OTHER FOSSIL GAS	0.090619718	t/TJ
2024	NOx	1A1a	OTHER FOSSIL SOLID	0.141001986	t/TJ
2024	NOx	1A1a	OTHER MEDIUM DISTILLATES	0.010364897	t/TJ
2024	NOx	1A1a	OTHER NON-FOSSIL GAS	0.140272630	t/TJ
2024	NOx	1A1a	OTHER NON-FOSSIL SOLID	0.091701230	t/TJ
2024	NOx	1A1a	OTHER NON-FOSSIL SOLID	0.051646983	t/TJ
2024	NOx	1A1a	OTHER WASTE	0.106991155	t/TJ
2024	NOx	1A1a	OTHER WOOD RESIDUE	0.127977166	t/TJ
2024	NOx	1A1a	PAPER	0.078309942	t/TJ
2024	NOx	1A1a	PLASTIC WASTE	1.005927760	t/TJ
2024	NOx	1A1a	RECOVERED FUEL (REF 2)	0.100000000	t/TJ
2024	NOx	1A1a	RECOVERED WOOD	0.097452990	t/TJ
2024	NOx	1A1a	RECYCLED AND WASTE OILS	0.094776950	t/TJ

2024	NOx	1A1a	REFINERY GASES	0.022486138	t/TJ
2024	NOx	1A1a	RENEWABLE DIESEL	0.217391304	t/TJ
2024	NOx	1A1a	SAWDUST	0.086453605	t/TJ
2024	NOx	1A1a	SOD PEAT	0.194579911	t/TJ
2024	NOx	1A1a	SOLID RECOVERED FUEL (SRF)	0.116803753	t/TJ
2024	NOx	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.069480633	t/TJ
2024	NOx	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.070488486	t/TJ
2024	NOx	1A1a	WOOD RESIDUE CHIPS	0.101735261	t/TJ
2024	NOx	1A1a	WOOD STUMP CHIPS	0.077812654	t/TJ
2024	NOx	1A1b	COKE (S=1.0%)	0.272621409	t/TJ
2024	NOx	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.059270235	t/TJ
2024	NOx	1A1b	LIQUID GAS	0.041489165	t/TJ
2024	NOx	1A1b	NATURAL GAS	0.060681877	t/TJ
2024	NOx	1A1b	OTHER NON-FOSSIL GAS	0.045436936	t/TJ
2024	NOx	1A1b	PETROLEUM COKE	0.037630243	t/TJ
2024	NOx	1A1b	REFINERY GAS	0.045904332	t/TJ
2024	NOx	1A1b	REFINERY GASES	0.053222472	t/TJ
2024	NOx	1A1b	SULPHUR CONCENTRATE	0.110346958	t/TJ
2024	NOx	1A2a	BLAST FURNACE GAS	0.043714047	t/TJ
2024	NOx	1A2a	COKE (S=1.0%)	0.867075982	t/TJ
2024	NOx	1A2a	COKE OVEN GAS	0.193219429	t/TJ
2024	NOx	1A2a	DIESEL OIL (S=001%)	0.041653248	t/TJ
2024	NOx	1A2a	GASOIL (FOR NON-ROAD USE)	0.024724361	t/TJ
2024	NOx	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.084922493	t/TJ
2024	NOx	1A2a	LIQUID GAS	0.222369255	t/TJ
2024	NOx	1A2a	NATURAL GAS	0.153914745	t/TJ
2024	NOx	1A2a	OTHER FOSSIL SOLID	0.011745703	t/TJ
2024	NOx	1A2a	WOOD RESIDUE CHIPS	0.315789474	t/TJ
2024	NOx	1A2b	COAL (S=1.0%)	0.169999907	t/TJ
2024	NOx	1A2b	COKE (S=1.0%)	0.079603258	t/TJ
2024	NOx	1A2b	DIESEL OIL (S=001%)	0.023539154	t/TJ
2024	NOx	1A2b	GASOIL (FOR NON-ROAD USE)	0.100000000	t/TJ
2024	NOx	1A2b	HEAVY FUEL OIL (S<1%)	0.086210882	t/TJ
2024	NOx	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.083925381	t/TJ
2024	NOx	1A2b	LIQUEFIED NATURAL GAS (LNG)	0.057412812	t/TJ
2024	NOx	1A2b	LIQUID GAS	0.072963713	t/TJ
2024	NOx	1A2b	NAPHTHA	0.030706244	t/TJ
2024	NOx	1A2b	OTHER HEAVY DISTILLATES	0.079603238	t/TJ
2024	NOx	1A2c	AROMATIC GAS	0.084524928	t/TJ
2024	NOx	1A2c	DIESEL OIL (S=001%)	0.100000000	t/TJ
2024	NOx	1A2c	GASIFIED WASTE	0.023056399	t/TJ
2024	NOx	1A2c	GASOIL (FOR NON-ROAD USE)	0.194614917	t/TJ
2024	NOx	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.179466114	t/TJ
2024	NOx	1A2c	HEAVY FUEL OIL (S<0,1%)	2.971606403	t/TJ
2024	NOx	1A2c	HEAVY FUEL OIL (S<1%)	0.560356007	t/TJ
2024	NOx	1A2c	HYDROGEN	0.589267836	t/TJ
2024	NOx	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.225990517	t/TJ
2024	NOx	1A2c	LIQUEFIED NATURAL GAS (LNG)	0.193037753	t/TJ
2024	NOx	1A2c	LIQUID GAS	0.085657983	t/TJ
2024	NOx	1A2c	METHANOL	0.060374949	t/TJ
2024	NOx	1A2c	NAPHTHA	0.100000000	t/TJ
2024	NOx	1A2c	NATURAL GAS	0.035477668	t/TJ
2024	NOx	1A2c	OTHER FOSSIL GAS	0.193065125	t/TJ
2024	NOx	1A2c	OTHER FUEL	0.039636851	t/TJ
2024	NOx	1A2c	OTHER MEDIUM DISTILLATES	0.042158496	t/TJ
2024	NOx	1A2c	OTHER NON-FOSSIL SOLID	0.096056156	t/TJ

2024	NOx	1A2c	OTHER WASTE	0.043032676	t/TJ
2024	NOx	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.042158496	t/TJ
2024	NOx	1A2c	REFINERY GASES	0.145057673	t/TJ
2024	NOx	1A2c	RENEWABLE DIESEL	0.099999846	t/TJ
2024	NOx	1A2c	SULPHUR CONCENTRATE	0.154236473	t/TJ
2024	NOx	1A2c	TALL PITCH AND OIL	0.225235882	t/TJ
2024	NOx	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.036221733	t/TJ
2024	NOx	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.198065944	t/TJ
2024	NOx	1A2d	ANIMAL-BASED FUELS	0.063711607	t/TJ
2024	NOx	1A2d	AROMATIC GAS	0.253023479	t/TJ
2024	NOx	1A2d	BARK	0.105239869	t/TJ
2024	NOx	1A2d	BIO-FUEL OIL	0.106362819	t/TJ
2024	NOx	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.037075179	t/TJ
2024	NOx	1A2d	BIOLOGICAL SLURRY	0.093780608	t/TJ
2024	NOx	1A2d	BLACK LIQUOR	0.052411565	t/TJ
2024	NOx	1A2d	CHIPS FROM ROUNDWOOD	0.080673112	t/TJ
2024	NOx	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.111024398	t/TJ
2024	NOx	1A2d	COAL (S=1.0%)	0.114635610	t/TJ
2024	NOx	1A2d	CUTTER CHIPS ETC.	0.111689432	t/TJ
2024	NOx	1A2d	DEMOLITION WOOD	0.063711655	t/TJ
2024	NOx	1A2d	FOREST RESIDUE CHIPS	0.058383727	t/TJ
2024	NOx	1A2d	GASOIL (FOR NON-ROAD USE)	0.205612705	t/TJ
2024	NOx	1A2d	HEAVY FUEL OIL (S<0,1%)	0.046976550	t/TJ
2024	NOx	1A2d	HEAVY FUEL OIL (S<0,5%)	0.140845070	t/TJ
2024	NOx	1A2d	HEAVY FUEL OIL (S<1%)	0.128429319	t/TJ
2024	NOx	1A2d	HYDROGEN	0.074813681	t/TJ
2024	NOx	1A2d	IMPREGNATED WOOD	0.063711607	t/TJ
2024	NOx	1A2d	INDUSTRIAL WASTE	0.102127350	t/TJ
2024	NOx	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.291821995	t/TJ
2024	NOx	1A2d	LIQUEFIED NATURAL GAS (LNG)	0.058851711	t/TJ
2024	NOx	1A2d	LIQUID GAS	0.087443492	t/TJ
2024	NOx	1A2d	METHANOL	0.153976305	t/TJ
2024	NOx	1A2d	MILLED PEAT	0.129354494	t/TJ
2024	NOx	1A2d	NATURAL GAS	0.088009002	t/TJ
2024	NOx	1A2d	NATURAL GAS	0.070000000	t/TJ
2024	NOx	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.135993853	t/TJ
2024	NOx	1A2d	OTHER FUEL	0.100691910	t/TJ
2024	NOx	1A2d	OTHER NON-FOSSIL GAS	0.070000000	t/TJ
2024	NOx	1A2d	OTHER WOOD RESIDUE	0.101885544	t/TJ
2024	NOx	1A2d	PAPER	0.141764998	t/TJ
2024	NOx	1A2d	PLASTIC WASTE	0.116529788	t/TJ
2024	NOx	1A2d	RECOVERED WOOD	0.112534393	t/TJ
2024	NOx	1A2d	RECYCLED AND WASTE OILS	0.063711869	t/TJ
2024	NOx	1A2d	SAWDUST	0.112674884	t/TJ
2024	NOx	1A2d	SOD PEAT	0.068438428	t/TJ
2024	NOx	1A2d	SOLID RECOVERED FUEL (SRF)	0.096556833	t/TJ
2024	NOx	1A2d	TALL PITCH AND OIL	0.108745142	t/TJ
2024	NOx	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.130772917	t/TJ
2024	NOx	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.052964532	t/TJ
2024	NOx	1A2d	WOOD RESIDUE CHIPS	0.087438540	t/TJ
2024	NOx	1A2d	WOOD STUMP CHIPS	0.063711607	t/TJ
2024	NOx	1A2e	ANIMAL FATS AND OILS	0.216562844	t/TJ
2024	NOx	1A2e	ANIMAL-BASED FUELS	0.100000000	t/TJ
2024	NOx	1A2e	BARK	0.166819609	t/TJ
2024	NOx	1A2e	BIO-FUEL OIL	0.077506318	t/TJ
2024	NOx	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.002317214	t/TJ

2024	NOx	1A2e	CHIPS FROM ROUNDWOOD	0.141337938	t/TJ
2024	NOx	1A2e	COKE (S=1.0%)	0.011479203	t/TJ
2024	NOx	1A2e	FOREST RESIDUE CHIPS	0.110223829	t/TJ
2024	NOx	1A2e	GASOIL (FOR NON-ROAD USE)	0.081005978	t/TJ
2024	NOx	1A2e	HEAVY FUEL OIL (S<1%)	0.146749988	t/TJ
2024	NOx	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.121238482	t/TJ
2024	NOx	1A2e	LIQUEFIED NATURAL GAS (LNG)	0.031527886	t/TJ
2024	NOx	1A2e	LIQUID GAS	0.063857402	t/TJ
2024	NOx	1A2e	MILLED PEAT	0.184392229	t/TJ
2024	NOx	1A2e	MOTOR GASOLINE (S=0.001%)	0.017448197	t/TJ
2024	NOx	1A2e	NAPHTHA	0.049396132	t/TJ
2024	NOx	1A2e	NATURAL GAS	0.070000000	t/TJ
2024	NOx	1A2e	NATURAL GAS	0.036167550	t/TJ
2024	NOx	1A2e	OTHER MEDIUM DISTILLATES	0.080000000	t/TJ
2024	NOx	1A2e	OTHER NON-FOSSIL GAS	0.066925872	t/TJ
2024	NOx	1A2e	OTHER NON-FOSSIL SOLID	0.088546392	t/TJ
2024	NOx	1A2e	OTHER NON-FOSSIL SOLID	0.118563006	t/TJ
2024	NOx	1A2e	PEAT PELLETS AND BRIQUETTES	0.218616305	t/TJ
2024	NOx	1A2e	RECOVERED WOOD	0.166819561	t/TJ
2024	NOx	1A2e	SAWDUST	0.121463067	t/TJ
2024	NOx	1A2e	SOD PEAT	0.090045319	t/TJ
2024	NOx	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.095583235	t/TJ
2024	NOx	1A2f	CHIPS FROM ROUNDWOOD	0.121203271	t/TJ
2024	NOx	1A2f	COAL (S=1.0%)	0.337324136	t/TJ
2024	NOx	1A2f	COKE OVEN GAS	0.016418862	t/TJ
2024	NOx	1A2f	DIESEL OIL (S=001%)	0.100000000	t/TJ
2024	NOx	1A2f	FOREST RESIDUE CHIPS	0.121203271	t/TJ
2024	NOx	1A2f	GASOIL (FOR NON-ROAD USE)	0.101751267	t/TJ
2024	NOx	1A2f	HEAVY FUEL OIL (S<0,1%)	0.145678385	t/TJ
2024	NOx	1A2f	HEAVY FUEL OIL (S<1%)	0.149331630	t/TJ
2024	NOx	1A2f	INDUSTRIAL WASTE	0.174820109	t/TJ
2024	NOx	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.106980491	t/TJ
2024	NOx	1A2f	LIQUID GAS	0.186870211	t/TJ
2024	NOx	1A2f	MOTOR GASOLINE (S=0.001%)	0.153558954	t/TJ
2024	NOx	1A2f	NATURAL GAS	0.070000000	t/TJ
2024	NOx	1A2f	NATURAL GAS	0.062995976	t/TJ
2024	NOx	1A2f	OTHER FOSSIL LIQUID	0.156342824	t/TJ
2024	NOx	1A2f	OTHER FUEL	0.045732527	t/TJ
2024	NOx	1A2f	OTHER HEAVY DISTILLATES	0.159700001	t/TJ
2024	NOx	1A2f	OTHER NON-FOSSIL GAS	0.070000002	t/TJ
2024	NOx	1A2f	PETROLEUM COKE	0.574744419	t/TJ
2024	NOx	1A2f	PLASTIC WASTE	0.215456398	t/TJ
2024	NOx	1A2f	RECOVERED WOOD	0.145443925	t/TJ
2024	NOx	1A2f	RECYCLED AND WASTE OILS	0.107303738	t/TJ
2024	NOx	1A2f	RUBBER WASTE	0.611870380	t/TJ
2024	NOx	1A2f	SAWDUST	0.097487002	t/TJ
2024	NOx	1A2f	SOLID RECOVERED FUEL (SRF)	0.291457633	t/TJ
2024	NOx	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.081239168	t/TJ
2024	NOx	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.257173370	t/TJ
2024	NOx	1A2gvii	LIQUID GAS	0.528772018	t/TJ
2024	NOx	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.295925765	t/TJ
2024	NOx	1A2gviii	ANIMAL-BASED FUELS	0.084333124	t/TJ
2024	NOx	1A2gviii	BARK	0.088203532	t/TJ
2024	NOx	1A2gviii	BIO-FUEL OIL	0.107505530	t/TJ
2024	NOx	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.084737140	t/TJ
2024	NOx	1A2gviii	BIOLOGICAL SLURRY	0.105165424	t/TJ

2024	NOx	1A2gviii	CHIPS FROM ROUNDWOOD	0.051191953	t/TJ
2024	NOx	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.082501314	t/TJ
2024	NOx	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.112968150	t/TJ
2024	NOx	1A2gviii	CUTTER CHIPS ETC.	0.055901579	t/TJ
2024	NOx	1A2gviii	DECIDUOUS TREE	0.120000000	t/TJ
2024	NOx	1A2gviii	DEMOLITION WOOD	0.038963252	t/TJ
2024	NOx	1A2gviii	DIESEL OIL (S=001%)	0.146266255	t/TJ
2024	NOx	1A2gviii	FOREST RESIDUE CHIPS	0.064555048	t/TJ
2024	NOx	1A2gviii	FOREST RESIDUE CHIPS	0.100000000	t/TJ
2024	NOx	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.416200228	t/TJ
2024	NOx	1A2gviii	HAZARDOUS WASTE	0.098897786	t/TJ
2024	NOx	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.177734375	t/TJ
2024	NOx	1A2gviii	HEAVY FUEL OIL (S<1%)	0.113397485	t/TJ
2024	NOx	1A2gviii	IMPREGNATED WOOD	0.095063021	t/TJ
2024	NOx	1A2gviii	LANDFILL GAS	0.189898229	t/TJ
2024	NOx	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.105776259	t/TJ
2024	NOx	1A2gviii	LIQUEFIED NATURAL GAS (LNG)	0.508956979	t/TJ
2024	NOx	1A2gviii	LIQUID GAS	0.069111515	t/TJ
2024	NOx	1A2gviii	MANURE	0.084333283	t/TJ
2024	NOx	1A2gviii	MILLED PEAT	0.138332090	t/TJ
2024	NOx	1A2gviii	MUNICIPAL WASTE - unsorted	0.083109910	t/TJ
2024	NOx	1A2gviii	NAPHTHA	0.321738217	t/TJ
2024	NOx	1A2gviii	NATURAL GAS	0.137113631	t/TJ
2024	NOx	1A2gviii	NATURAL GAS	0.070733333	t/TJ
2024	NOx	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.054724824	t/TJ
2024	NOx	1A2gviii	OTHER HEAVY DISTILLATES	0.092817883	t/TJ
2024	NOx	1A2gviii	OTHER NON-FOSSIL GAS	0.130736577	t/TJ
2024	NOx	1A2gviii	OTHER NON-FOSSIL SOLID	0.165564673	t/TJ
2024	NOx	1A2gviii	OTHER NON-FOSSIL SOLID	0.135593384	t/TJ
2024	NOx	1A2gviii	OTHER WOOD RESIDUE	0.108298657	t/TJ
2024	NOx	1A2gviii	PLASTIC WASTE	0.089421377	t/TJ
2024	NOx	1A2gviii	RECOVERED WOOD	0.075093367	t/TJ
2024	NOx	1A2gviii	RECYCLED AND WASTE OILS	0.084499957	t/TJ
2024	NOx	1A2gviii	RENEWABLE DIESEL	0.085303212	t/TJ
2024	NOx	1A2gviii	SAWDUST	0.060208879	t/TJ
2024	NOx	1A2gviii	SAWDUST AND CUTTER CHIPS	0.109744013	t/TJ
2024	NOx	1A2gviii	SOD PEAT	0.074998504	t/TJ
2024	NOx	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.065530862	t/TJ
2024	NOx	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.094043691	t/TJ
2024	NOx	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.126486062	t/TJ
2024	NOx	1A2gviii	WOOD RESIDUE CHIPS	0.096066384	t/TJ
2024	NOx	1A2gviii	WOOD STUMP CHIPS	0.038153334	t/TJ
2024	NOx	1A3ai(i)	KEROSENE (JET FUEL)	0.317323056	t/TJ
2024	NOx	1A3aii(i)	AVIATION GASOLINE	0.076574968	t/TJ
2024	NOx	1A3aii(i)	KEROSENE (JET FUEL)	0.276522605	t/TJ
2024	NOx	1A3bi	DIESEL OIL (S=001%)	0.299038336	t/TJ
2024	NOx	1A3bi	MOTOR GASOLINE (S=0.001%)	0.049654161	t/TJ
2024	NOx	1A3bi	NATURAL GAS	0.013784539	t/TJ
2024	NOx	1A3bii	DIESEL OIL (S=001%)	0.425581009	t/TJ
2024	NOx	1A3bii	MOTOR GASOLINE (S=0.001%)	0.239220600	t/TJ
2024	NOx	1A3biii	DIESEL OIL (S=001%)	0.163015521	t/TJ
2024	NOx	1A3biii	MOTOR GASOLINE (S=0.001%)	0.312989195	t/TJ
2024	NOx	1A3biii	NATURAL GAS	0.158141793	t/TJ
2024	NOx	1A3biv	DIESEL OIL (S=001%)	0.529624828	t/TJ
2024	NOx	1A3biv	MOTOR GASOLINE (S=0.001%)	0.109758020	t/TJ
2024	NOx	1A3c	GASOIL (FOR NON-ROAD USE)	1.445942842	t/TJ

2024	NOx	1A3dii	DIESEL OIL (S=001%)	1.371132259	t/TJ
2024	NOx	1A3dii	GASOIL (FOR NON-ROAD USE)	1.393479662	t/TJ
2024	NOx	1A3dii	HEAVY FUEL OIL (normal, S>1%)	1.126694923	t/TJ
2024	NOx	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.454525744	t/TJ
2024	NOx	1A3dii	MOTOR GASOLINE (S=0.001%)	0.426278261	t/TJ
2024	NOx	1A3ei	NATURAL GAS	0.058147260	t/TJ
2024	NOx	1A4ai	BIO-FUEL OIL	0.100000000	t/TJ
2024	NOx	1A4ai	FOREST WOODFUEL	0.080000000	t/TJ
2024	NOx	1A4ai	GASOIL (FOR NON-ROAD USE)	0.094389372	t/TJ
2024	NOx	1A4ai	HEAVY FUEL OIL (S<1%)	0.080000000	t/TJ
2024	NOx	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.081775139	t/TJ
2024	NOx	1A4ai	NAPHTHA	0.090293454	t/TJ
2024	NOx	1A4ai	NATURAL GAS	0.051624213	t/TJ
2024	NOx	1A4ai	NATURAL GAS	0.043339574	t/TJ
2024	NOx	1A4ai	SOD PEAT	0.124242424	t/TJ
2024	NOx	1A4aii	GASOIL (FOR NON-ROAD USE)	0.252525529	t/TJ
2024	NOx	1A4aii	MOTOR GASOLINE (S=0.001%)	0.135243635	t/TJ
2024	NOx	1A4bi	FOREST WOODFUEL	0.080000000	t/TJ
2024	NOx	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.080000000	t/TJ
2024	NOx	1A4bi	LIQUID GAS	0.050000000	t/TJ
2024	NOx	1A4bi	NATURAL GAS	0.050000000	t/TJ
2024	NOx	1A4bi	PARAFFIN	0.080000000	t/TJ
2024	NOx	1A4bi	SOD PEAT	0.100000000	t/TJ
2024	NOx	1A4bii	GASOIL (FOR NON-ROAD USE)	0.911976649	t/TJ
2024	NOx	1A4bii	MOTOR GASOLINE (S=0.001%)	0.198773624	t/TJ
2024	NOx	1A4ci	ANIMAL-BASED FUELS	2.280000000	t/TJ
2024	NOx	1A4ci	CHIPS FROM ROUNDWOOD	0.456445518	t/TJ
2024	NOx	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.120000000	t/TJ
2024	NOx	1A4ci	FOREST RESIDUE CHIPS	0.120000000	t/TJ
2024	NOx	1A4ci	FOREST WOODFUEL	0.080000000	t/TJ
2024	NOx	1A4ci	GASOIL (FOR NON-ROAD USE)	0.108991826	t/TJ
2024	NOx	1A4ci	HEAVY FUEL OIL (S<1%)	0.082311927	t/TJ
2024	NOx	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.080000000	t/TJ
2024	NOx	1A4ci	LIQUID GAS	0.050000000	t/TJ
2024	NOx	1A4ci	MILLED PEAT	0.541734861	t/TJ
2024	NOx	1A4ci	NATURAL GAS	0.050000000	t/TJ
2024	NOx	1A4ci	OTHER NON-FOSSIL SOLID	0.101040000	t/TJ
2024	NOx	1A4ci	RECOVERED WOOD	0.110206716	t/TJ
2024	NOx	1A4ci	SOD PEAT	0.100530023	t/TJ
2024	NOx	1A4ci	WOOD RESIDUE CHIPS	2.280000000	t/TJ
2024	NOx	1A4cii	GASOIL (FOR NON-ROAD USE)	0.157681812	t/TJ
2024	NOx	1A4cii	MOTOR GASOLINE (S=0.001%)	0.073729553	t/TJ
2024	NOx	1A4ciii	GASOIL (FOR NON-ROAD USE)	1.214954976	t/TJ
2024	NOx	1A5a	AVIATION GASOLINE	0.083333333	t/TJ
2024	NOx	1A5a	FOREST WOODFUEL	0.100000000	t/TJ
2024	NOx	1A5a	KEROSENE (JET FUEL)	0.223028544	t/TJ
2024	NOx	1A5a	LANDFILL GAS	0.050000000	t/TJ
2024	NOx	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.361387818	t/TJ
2024	NOx	1A5a	LIQUID GAS	0.050000000	t/TJ
2024	NOx	1A5a	NATURAL GAS	0.050000000	t/TJ
2024	NOx	1A5a	OTHER PETROLEUM PRODUCTS	0.080000000	t/TJ

NM VOC Implied emission factors in Finnish air pollutant inventory for 2024

2024	NM VOC	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.014640876	t/TJ
2024	NM VOC	1A1a	ANIMAL-BASED FUELS	0.003000000	t/TJ

2024	NMVOC	1A1a	ASPHALTENE	0.001000000	t/TJ
2024	NMVOC	1A1a	BARK	0.006264701	t/TJ
2024	NMVOC	1A1a	BIO PELLETS (NON-WOOD)	0.003000000	t/TJ
2024	NMVOC	1A1a	BIO PYROLYSIS OIL	0.001000000	t/TJ
2024	NMVOC	1A1a	BIO-FUEL OIL	0.001000000	t/TJ
2024	NMVOC	1A1a	BIOLOGICAL SLURRY	0.003000000	t/TJ
2024	NMVOC	1A1a	BLAST FURNACE GAS	0.001000001	t/TJ
2024	NMVOC	1A1a	CHIPS FROM ROUNDWOOD	0.006325539	t/TJ
2024	NMVOC	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.016978918	t/TJ
2024	NMVOC	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.033475562	t/TJ
2024	NMVOC	1A1a	COAL (S=1.0%)	0.001119252	t/TJ
2024	NMVOC	1A1a	COKE OVEN GAS	0.001000000	t/TJ
2024	NMVOC	1A1a	CUTTER CHIPS ETC.	0.003903140	t/TJ
2024	NMVOC	1A1a	DEINKING WASTE	0.003000001	t/TJ
2024	NMVOC	1A1a	DEMOLITION WOOD	0.014049309	t/TJ
2024	NMVOC	1A1a	DIESEL OIL (S=001%)	0.010464507	t/TJ
2024	NMVOC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.050000000	t/TJ
2024	NMVOC	1A1a	FOREST RESIDUE CHIPS	0.024503099	t/TJ
2024	NMVOC	1A1a	FOREST RESIDUE CHIPS	0.047890666	t/TJ
2024	NMVOC	1A1a	GASOIL (FOR NON-ROAD USE)	0.002014737	t/TJ
2024	NMVOC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.001191046	t/TJ
2024	NMVOC	1A1a	HEAVY FUEL OIL (S<0,1%)	0.001257660	t/TJ
2024	NMVOC	1A1a	HEAVY FUEL OIL (S<0,5%)	0.001027738	t/TJ
2024	NMVOC	1A1a	HEAVY FUEL OIL (S<1%)	0.001512783	t/TJ
2024	NMVOC	1A1a	HYDROGEN	0.001000001	t/TJ
2024	NMVOC	1A1a	IMPREGNATED WOOD	0.007755469	t/TJ
2024	NMVOC	1A1a	INDUSTRIAL WASTE	0.032987193	t/TJ
2024	NMVOC	1A1a	LANDFILL GAS	0.001368474	t/TJ
2024	NMVOC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.003420418	t/TJ
2024	NMVOC	1A1a	LIQUEFIED NATURAL GAS (LNG)	0.001000000	t/TJ
2024	NMVOC	1A1a	LIQUID GAS	0.001372246	t/TJ
2024	NMVOC	1A1a	MILLED PEAT	0.004933544	t/TJ
2024	NMVOC	1A1a	MOTOR GASOLINE (S=0.001%)	0.001000000	t/TJ
2024	NMVOC	1A1a	MUNICIPAL WASTE - unsorted	0.017507023	t/TJ
2024	NMVOC	1A1a	NAPHTHA	0.001000000	t/TJ
2024	NMVOC	1A1a	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A1a	NATURAL GAS	0.001843586	t/TJ
2024	NMVOC	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002999874	t/TJ
2024	NMVOC	1A1a	OTHER FOSSIL GAS	0.009329269	t/TJ
2024	NMVOC	1A1a	OTHER FOSSIL SOLID	0.016810868	t/TJ
2024	NMVOC	1A1a	OTHER MEDIUM DISTILLATES	0.001000000	t/TJ
2024	NMVOC	1A1a	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2024	NMVOC	1A1a	OTHER NON-FOSSIL SOLID	0.009914570	t/TJ
2024	NMVOC	1A1a	OTHER NON-FOSSIL SOLID	0.008986230	t/TJ
2024	NMVOC	1A1a	OTHER WASTE	0.005805012	t/TJ
2024	NMVOC	1A1a	OTHER WOOD RESIDUE	0.009804164	t/TJ
2024	NMVOC	1A1a	PAPER	0.010000000	t/TJ
2024	NMVOC	1A1a	PLASTIC WASTE	0.003000000	t/TJ
2024	NMVOC	1A1a	RECOVERED FUEL (REF 2)	0.050000000	t/TJ
2024	NMVOC	1A1a	RECOVERED WOOD	0.016247863	t/TJ
2024	NMVOC	1A1a	RECYCLED AND WASTE OILS	0.002999999	t/TJ
2024	NMVOC	1A1a	REFINERY GASES	0.002000000	t/TJ
2024	NMVOC	1A1a	RENEWABLE DIESEL	0.001000000	t/TJ
2024	NMVOC	1A1a	SAWDUST	0.004752725	t/TJ
2024	NMVOC	1A1a	SOD PEAT	0.014549692	t/TJ
2024	NMVOC	1A1a	SOLID RECOVERED FUEL (SRF)	0.016750444	t/TJ

2024	NMVOC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012651406	t/TJ
2024	NMVOC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.032290371	t/TJ
2024	NMVOC	1A1a	WOOD RESIDUE CHIPS	0.059874175	t/TJ
2024	NMVOC	1A1a	WOOD STUMP CHIPS	0.027495603	t/TJ
2024	NMVOC	1A1b	COKE (S=1.0%)	0.001000000	t/TJ
2024	NMVOC	1A1b	NATURAL GAS	0.000885614	t/TJ
2024	NMVOC	1A1b	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2024	NMVOC	1A1b	PETROLEUM COKE	0.004000000	t/TJ
2024	NMVOC	1A1b	REFINERY GAS	0.001000000	t/TJ
2024	NMVOC	1A1b	REFINERY GASES	0.000699184	t/TJ
2024	NMVOC	1A1b	SULPHUR CONCENTRATE	0.002000000	t/TJ
2024	NMVOC	1A2a	BLAST FURNACE GAS	0.000895888	t/TJ
2024	NMVOC	1A2a	COKE OVEN GAS	0.000533034	t/TJ
2024	NMVOC	1A2a	DIESEL OIL (S=001%)	0.001000000	t/TJ
2024	NMVOC	1A2a	GASOIL (FOR NON-ROAD USE)	0.001013435	t/TJ
2024	NMVOC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.001000000	t/TJ
2024	NMVOC	1A2a	LIQUID GAS	0.000174868	t/TJ
2024	NMVOC	1A2a	NATURAL GAS	0.000602766	t/TJ
2024	NMVOC	1A2a	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A2b	COAL (S=1.0%)	0.004000005	t/TJ
2024	NMVOC	1A2b	COKE (S=1.0%)	0.001000000	t/TJ
2024	NMVOC	1A2b	DIESEL OIL (S=001%)	0.001000000	t/TJ
2024	NMVOC	1A2b	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2024	NMVOC	1A2b	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2024	NMVOC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.001042066	t/TJ
2024	NMVOC	1A2b	LIQUEFIED NATURAL GAS (LNG)	0.001000000	t/TJ
2024	NMVOC	1A2b	LIQUID GAS	0.000853200	t/TJ
2024	NMVOC	1A2b	NAPHTHA	0.001000000	t/TJ
2024	NMVOC	1A2b	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2024	NMVOC	1A2c	AROMATIC GAS	0.000479007	t/TJ
2024	NMVOC	1A2c	GASIFIED WASTE	0.004000001	t/TJ
2024	NMVOC	1A2c	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2024	NMVOC	1A2c	HEAVY FUEL OIL (S<0,1%)	0.001174846	t/TJ
2024	NMVOC	1A2c	HEAVY FUEL OIL (S<1%)	0.000996657	t/TJ
2024	NMVOC	1A2c	HYDROGEN	0.001000000	t/TJ
2024	NMVOC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000516262	t/TJ
2024	NMVOC	1A2c	LIQUEFIED NATURAL GAS (LNG)	0.000907824	t/TJ
2024	NMVOC	1A2c	LIQUID GAS	0.000695839	t/TJ
2024	NMVOC	1A2c	METHANOL	0.000479007	t/TJ
2024	NMVOC	1A2c	NATURAL GAS	0.000962252	t/TJ
2024	NMVOC	1A2c	OTHER FOSSIL GAS	0.000543904	t/TJ
2024	NMVOC	1A2c	OTHER FUEL	0.003000000	t/TJ
2024	NMVOC	1A2c	OTHER NON-FOSSIL SOLID	0.010000000	t/TJ
2024	NMVOC	1A2c	OTHER WASTE	0.003000000	t/TJ
2024	NMVOC	1A2c	REFINERY GASES	0.000141266	t/TJ
2024	NMVOC	1A2c	SULPHUR CONCENTRATE	0.000779319	t/TJ
2024	NMVOC	1A2c	TALL PITCH AND OIL	0.000669746	t/TJ
2024	NMVOC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.034990995	t/TJ
2024	NMVOC	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.012443033	t/TJ
2024	NMVOC	1A2d	ANIMAL-BASED FUELS	0.003000000	t/TJ
2024	NMVOC	1A2d	AROMATIC GAS	0.000804152	t/TJ
2024	NMVOC	1A2d	BARK	0.002924479	t/TJ
2024	NMVOC	1A2d	BIO-FUEL OIL	0.001000000	t/TJ
2024	NMVOC	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.001000003	t/TJ
2024	NMVOC	1A2d	BIOLOGICAL SLURRY	0.003000002	t/TJ
2024	NMVOC	1A2d	BLACK LIQUOR	0.000875987	t/TJ

2024	NMVOC	1A2d	CHIPS FROM ROUNDWOOD	0.006441321	t/TJ
2024	NMVOC	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.050000000	t/TJ
2024	NMVOC	1A2d	COAL (S=1.0%)	0.003000000	t/TJ
2024	NMVOC	1A2d	CUTTER CHIPS ETC.	0.004000000	t/TJ
2024	NMVOC	1A2d	DEMOLITION WOOD	0.003000002	t/TJ
2024	NMVOC	1A2d	FOREST RESIDUE CHIPS	0.029170231	t/TJ
2024	NMVOC	1A2d	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2024	NMVOC	1A2d	HEAVY FUEL OIL (S<0,1%)	0.001157530	t/TJ
2024	NMVOC	1A2d	HEAVY FUEL OIL (S<0,5%)	0.001000000	t/TJ
2024	NMVOC	1A2d	HEAVY FUEL OIL (S<1%)	0.001146811	t/TJ
2024	NMVOC	1A2d	HYDROGEN	0.000999999	t/TJ
2024	NMVOC	1A2d	IMPREGNATED WOOD	0.003000000	t/TJ
2024	NMVOC	1A2d	INDUSTRIAL WASTE	0.009158330	t/TJ
2024	NMVOC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.001324583	t/TJ
2024	NMVOC	1A2d	LIQUEFIED NATURAL GAS (LNG)	0.001000000	t/TJ
2024	NMVOC	1A2d	LIQUID GAS	0.001000215	t/TJ
2024	NMVOC	1A2d	METHANOL	0.000860311	t/TJ
2024	NMVOC	1A2d	MILLED PEAT	0.002699575	t/TJ
2024	NMVOC	1A2d	NATURAL GAS	0.000953286	t/TJ
2024	NMVOC	1A2d	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003000000	t/TJ
2024	NMVOC	1A2d	OTHER FUEL	0.002999998	t/TJ
2024	NMVOC	1A2d	OTHER NON-FOSSIL GAS	0.001000000	t/TJ
2024	NMVOC	1A2d	OTHER WOOD RESIDUE	0.010000000	t/TJ
2024	NMVOC	1A2d	PAPER	0.010000000	t/TJ
2024	NMVOC	1A2d	PLASTIC WASTE	0.002993657	t/TJ
2024	NMVOC	1A2d	RECOVERED WOOD	0.002999998	t/TJ
2024	NMVOC	1A2d	RECYCLED AND WASTE OILS	0.003000002	t/TJ
2024	NMVOC	1A2d	SAWDUST	0.003983621	t/TJ
2024	NMVOC	1A2d	SOD PEAT	0.050000000	t/TJ
2024	NMVOC	1A2d	SOLID RECOVERED FUEL (SRF)	0.010000000	t/TJ
2024	NMVOC	1A2d	TALL PITCH AND OIL	0.000925691	t/TJ
2024	NMVOC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.010000014	t/TJ
2024	NMVOC	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.050000000	t/TJ
2024	NMVOC	1A2d	WOOD RESIDUE CHIPS	0.028521566	t/TJ
2024	NMVOC	1A2d	WOOD STUMP CHIPS	0.050000000	t/TJ
2024	NMVOC	1A2e	ANIMAL FATS AND OILS	0.004000000	t/TJ
2024	NMVOC	1A2e	ANIMAL-BASED FUELS	0.050000000	t/TJ
2024	NMVOC	1A2e	BARK	0.002999992	t/TJ
2024	NMVOC	1A2e	BIO-FUEL OIL	0.001000000	t/TJ
2024	NMVOC	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.001000000	t/TJ
2024	NMVOC	1A2e	CHIPS FROM ROUNDWOOD	0.004000000	t/TJ
2024	NMVOC	1A2e	COKE (S=1.0%)	0.004000002	t/TJ
2024	NMVOC	1A2e	FOREST RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A2e	GASOIL (FOR NON-ROAD USE)	0.001042979	t/TJ
2024	NMVOC	1A2e	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2024	NMVOC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.001456486	t/TJ
2024	NMVOC	1A2e	LIQUEFIED NATURAL GAS (LNG)	0.001000000	t/TJ
2024	NMVOC	1A2e	LIQUID GAS	0.001000000	t/TJ
2024	NMVOC	1A2e	MILLED PEAT	0.004658612	t/TJ
2024	NMVOC	1A2e	MOTOR GASOLINE (S=0.001%)	0.001000000	t/TJ
2024	NMVOC	1A2e	NAPHTHA	0.001000000	t/TJ
2024	NMVOC	1A2e	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A2e	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A2e	OTHER MEDIUM DISTILLATES	0.001000000	t/TJ
2024	NMVOC	1A2e	OTHER NON-FOSSIL GAS	0.001000000	t/TJ

2024	NMVOC	1A2e	OTHER NON-FOSSIL SOLID	0.010000006	t/TJ
2024	NMVOC	1A2e	OTHER NON-FOSSIL SOLID	0.010000000	t/TJ
2024	NMVOC	1A2e	PEAT PELLETS AND BRIQUETTES	0.004000000	t/TJ
2024	NMVOC	1A2e	RECOVERED WOOD	0.003000001	t/TJ
2024	NMVOC	1A2e	SAWDUST	0.004425868	t/TJ
2024	NMVOC	1A2e	SOD PEAT	0.050000000	t/TJ
2024	NMVOC	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.050000000	t/TJ
2024	NMVOC	1A2f	CHIPS FROM ROUNDWOOD	0.050000000	t/TJ
2024	NMVOC	1A2f	COAL (S=1.0%)	0.000853610	t/TJ
2024	NMVOC	1A2f	COKE OVEN GAS	0.001000000	t/TJ
2024	NMVOC	1A2f	DIESEL OIL (S=001%)	0.001000000	t/TJ
2024	NMVOC	1A2f	FOREST RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A2f	GASOIL (FOR NON-ROAD USE)	0.000999982	t/TJ
2024	NMVOC	1A2f	HEAVY FUEL OIL (S<0,1%)	0.001000000	t/TJ
2024	NMVOC	1A2f	HEAVY FUEL OIL (S<1%)	0.001000000	t/TJ
2024	NMVOC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000988161	t/TJ
2024	NMVOC	1A2f	LIQUID GAS	0.000751046	t/TJ
2024	NMVOC	1A2f	MOTOR GASOLINE (S=0.001%)	0.000997775	t/TJ
2024	NMVOC	1A2f	NATURAL GAS	0.000687482	t/TJ
2024	NMVOC	1A2f	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A2f	OTHER FOSSIL LIQUID	0.001000000	t/TJ
2024	NMVOC	1A2f	OTHER FUEL	0.003000000	t/TJ
2024	NMVOC	1A2f	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2024	NMVOC	1A2f	OTHER NON-FOSSIL GAS	0.000868145	t/TJ
2024	NMVOC	1A2f	PETROLEUM COKE	0.000308081	t/TJ
2024	NMVOC	1A2f	PLASTIC WASTE	0.001308089	t/TJ
2024	NMVOC	1A2f	RECOVERED WOOD	0.003000000	t/TJ
2024	NMVOC	1A2f	RECYCLED AND WASTE OILS	0.001000000	t/TJ
2024	NMVOC	1A2f	SAWDUST	0.004000000	t/TJ
2024	NMVOC	1A2f	SOLID RECOVERED FUEL (SRF)	0.008047619	t/TJ
2024	NMVOC	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.050000000	t/TJ
2024	NMVOC	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.042249735	t/TJ
2024	NMVOC	1A2gvii	LIQUID GAS	0.791014070	t/TJ
2024	NMVOC	1A2gvii	MOTOR GASOLINE (S=0.001%)	1.082213055	t/TJ
2024	NMVOC	1A2gviii	ANIMAL-BASED FUELS	0.003000000	t/TJ
2024	NMVOC	1A2gviii	BARK	0.012439784	t/TJ
2024	NMVOC	1A2gviii	BIO-FUEL OIL	0.001000000	t/TJ
2024	NMVOC	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.001000000	t/TJ
2024	NMVOC	1A2gviii	BIOLOGICAL SLURRY	0.003000000	t/TJ
2024	NMVOC	1A2gviii	CHIPS FROM ROUNDWOOD	0.002815384	t/TJ
2024	NMVOC	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.050000000	t/TJ
2024	NMVOC	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.046009591	t/TJ
2024	NMVOC	1A2gviii	CUTTER CHIPS ETC.	0.003671181	t/TJ
2024	NMVOC	1A2gviii	DECIDUOUS TREE	0.050000000	t/TJ
2024	NMVOC	1A2gviii	DEMOLITION WOOD	0.000768434	t/TJ
2024	NMVOC	1A2gviii	DIESEL OIL (S=001%)	0.080761174	t/TJ
2024	NMVOC	1A2gviii	FOREST RESIDUE CHIPS	0.031115989	t/TJ
2024	NMVOC	1A2gviii	FOREST RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.001302590	t/TJ
2024	NMVOC	1A2gviii	HAZARDOUS WASTE	0.010000000	t/TJ
2024	NMVOC	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.001000000	t/TJ
2024	NMVOC	1A2gviii	HEAVY FUEL OIL (S<1%)	0.001623082	t/TJ
2024	NMVOC	1A2gviii	IMPREGNATED WOOD	0.003000000	t/TJ
2024	NMVOC	1A2gviii	LANDFILL GAS	0.033305688	t/TJ
2024	NMVOC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.017154025	t/TJ
2024	NMVOC	1A2gviii	LIQUEFIED NATURAL GAS (LNG)	0.000254925	t/TJ

2024	NMVOC	1A2gviii	LIQUID GAS	0.081258610	t/TJ
2024	NMVOC	1A2gviii	MANURE	0.003000000	t/TJ
2024	NMVOC	1A2gviii	MILLED PEAT	0.003484136	t/TJ
2024	NMVOC	1A2gviii	MUNICIPAL WASTE - unsorted	0.003340718	t/TJ
2024	NMVOC	1A2gviii	NAPHTHA	0.001000000	t/TJ
2024	NMVOC	1A2gviii	NATURAL GAS	0.083545615	t/TJ
2024	NMVOC	1A2gviii	NATURAL GAS	0.002197778	t/TJ
2024	NMVOC	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002949655	t/TJ
2024	NMVOC	1A2gviii	OTHER HEAVY DISTILLATES	0.001000000	t/TJ
2024	NMVOC	1A2gviii	OTHER NON-FOSSIL GAS	0.002249934	t/TJ
2024	NMVOC	1A2gviii	OTHER NON-FOSSIL SOLID	0.010000000	t/TJ
2024	NMVOC	1A2gviii	OTHER NON-FOSSIL SOLID	0.009983854	t/TJ
2024	NMVOC	1A2gviii	OTHER WOOD RESIDUE	0.010000000	t/TJ
2024	NMVOC	1A2gviii	PLASTIC WASTE	0.003000000	t/TJ
2024	NMVOC	1A2gviii	RECOVERED WOOD	0.009080410	t/TJ
2024	NMVOC	1A2gviii	RECYCLED AND WASTE OILS	0.001000000	t/TJ
2024	NMVOC	1A2gviii	RENEWABLE DIESEL	0.000322905	t/TJ
2024	NMVOC	1A2gviii	SAWDUST	0.002130602	t/TJ
2024	NMVOC	1A2gviii	SAWDUST AND CUTTER CHIPS	0.030511974	t/TJ
2024	NMVOC	1A2gviii	SOD PEAT	0.022808163	t/TJ
2024	NMVOC	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.003497986	t/TJ
2024	NMVOC	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012391219	t/TJ
2024	NMVOC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.055073240	t/TJ
2024	NMVOC	1A2gviii	WOOD RESIDUE CHIPS	0.038389060	t/TJ
2024	NMVOC	1A2gviii	WOOD STUMP CHIPS	0.012221674	t/TJ
2024	NMVOC	1A3ai(i)	KEROSENE (JET FUEL)	0.029901214	t/TJ
2024	NMVOC	1A3aii(i)	AVIATION GASOLINE	0.424062532	t/TJ
2024	NMVOC	1A3aii(i)	KEROSENE (JET FUEL)	0.033954619	t/TJ
2024	NMVOC	1A3bi	DIESEL OIL (S=001%)	0.006011967	t/TJ
2024	NMVOC	1A3bi	MOTOR GASOLINE (S=0.001%)	0.031373465	t/TJ
2024	NMVOC	1A3bi	NATURAL GAS	0.008119806	t/TJ
2024	NMVOC	1A3bii	DIESEL OIL (S=001%)	0.022163808	t/TJ
2024	NMVOC	1A3bii	MOTOR GASOLINE (S=0.001%)	0.135476279	t/TJ
2024	NMVOC	1A3biii	DIESEL OIL (S=001%)	0.005738780	t/TJ
2024	NMVOC	1A3biii	MOTOR GASOLINE (S=0.001%)	0.178464866	t/TJ
2024	NMVOC	1A3biii	NATURAL GAS	0.010133485	t/TJ
2024	NMVOC	1A3biv	DIESEL OIL (S=001%)	0.822960404	t/TJ
2024	NMVOC	1A3biv	MOTOR GASOLINE (S=0.001%)	0.420183224	t/TJ
2024	NMVOC	1A3c	GASOIL (FOR NON-ROAD USE)	0.085762195	t/TJ
2024	NMVOC	1A3dii	DIESEL OIL (S=001%)	0.078415743	t/TJ
2024	NMVOC	1A3dii	GASOIL (FOR NON-ROAD USE)	0.055648027	t/TJ
2024	NMVOC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.049558235	t/TJ
2024	NMVOC	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.202393914	t/TJ
2024	NMVOC	1A3dii	MOTOR GASOLINE (S=0.001%)	1.502364556	t/TJ
2024	NMVOC	1A3ei	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A4ai	BIO-FUEL OIL	0.001000000	t/TJ
2024	NMVOC	1A4ai	FOREST WOODFUEL	0.003000000	t/TJ
2024	NMVOC	1A4ai	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2024	NMVOC	1A4ai	HEAVY FUEL OIL (S<1%)	0.005000000	t/TJ
2024	NMVOC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.004987270	t/TJ
2024	NMVOC	1A4ai	NAPHTHA	0.001000000	t/TJ
2024	NMVOC	1A4ai	NATURAL GAS	0.001000000	t/TJ
2024	NMVOC	1A4ai	NATURAL GAS	0.004675157	t/TJ
2024	NMVOC	1A4ai	SOD PEAT	0.163636364	t/TJ
2024	NMVOC	1A4aii	GASOIL (FOR NON-ROAD USE)	0.040315400	t/TJ
2024	NMVOC	1A4aii	MOTOR GASOLINE (S=0.001%)	0.426867368	t/TJ

2024	NMVOC	1A4bi	FOREST WOODFUEL	0.392122004	t/TJ
2024	NMVOC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.005000000	t/TJ
2024	NMVOC	1A4bi	LIQUID GAS	0.005000000	t/TJ
2024	NMVOC	1A4bi	NATURAL GAS	0.005000000	t/TJ
2024	NMVOC	1A4bi	PARAFFIN	0.005000000	t/TJ
2024	NMVOC	1A4bi	SOD PEAT	0.200000000	t/TJ
2024	NMVOC	1A4bii	GASOIL (FOR NON-ROAD USE)	0.163711122	t/TJ
2024	NMVOC	1A4bii	MOTOR GASOLINE (S=0.001%)	1.126970246	t/TJ
2024	NMVOC	1A4ci	ANIMAL-BASED FUELS	0.003000000	t/TJ
2024	NMVOC	1A4ci	CHIPS FROM ROUNDWOOD	0.004000000	t/TJ
2024	NMVOC	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.050000000	t/TJ
2024	NMVOC	1A4ci	FOREST RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A4ci	FOREST WOODFUEL	0.003000000	t/TJ
2024	NMVOC	1A4ci	GASOIL (FOR NON-ROAD USE)	0.001000000	t/TJ
2024	NMVOC	1A4ci	HEAVY FUEL OIL (S<1%)	0.004537615	t/TJ
2024	NMVOC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.005000000	t/TJ
2024	NMVOC	1A4ci	LIQUID GAS	0.005000000	t/TJ
2024	NMVOC	1A4ci	MILLED PEAT	0.003000000	t/TJ
2024	NMVOC	1A4ci	NATURAL GAS	0.005000000	t/TJ
2024	NMVOC	1A4ci	OTHER NON-FOSSIL SOLID	0.010000000	t/TJ
2024	NMVOC	1A4ci	RECOVERED WOOD	0.003000000	t/TJ
2024	NMVOC	1A4ci	SOD PEAT	0.195250944	t/TJ
2024	NMVOC	1A4ci	WOOD RESIDUE CHIPS	0.050000000	t/TJ
2024	NMVOC	1A4cii	GASOIL (FOR NON-ROAD USE)	0.031683451	t/TJ
2024	NMVOC	1A4cii	MOTOR GASOLINE (S=0.001%)	2.624653993	t/TJ
2024	NMVOC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.058499339	t/TJ
2024	NMVOC	1A5a	AVIATION GASOLINE	0.312500000	t/TJ
2024	NMVOC	1A5a	FOREST WOODFUEL	0.010000000	t/TJ
2024	NMVOC	1A5a	KEROSENE (JET FUEL)	0.023222061	t/TJ
2024	NMVOC	1A5a	LANDFILL GAS	0.005000000	t/TJ
2024	NMVOC	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.014589460	t/TJ
2024	NMVOC	1A5a	LIQUID GAS	0.005000000	t/TJ
2024	NMVOC	1A5a	NATURAL GAS	0.005000000	t/TJ
2024	NMVOC	1A5a	OTHER PETROLEUM PRODUCTS	0.005000000	t/TJ

SO2 Implied emission factors in Finnish air pollutant inventory for 2024

2024	SO2	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.012881653	t/TJ
2024	SO2	1A1a	ANIMAL-BASED FUELS	0.112499790	t/TJ
2024	SO2	1A1a	ANTHRACITE	0.075039369	t/TJ
2024	SO2	1A1a	ASPHALTENE	0.014471446	t/TJ
2024	SO2	1A1a	BARK	0.006415619	t/TJ
2024	SO2	1A1a	BIO PELLETS (NON-WOOD)	0.017388913	t/TJ
2024	SO2	1A1a	BIO PYROLYSIS OIL	0.001092896	t/TJ
2024	SO2	1A1a	BIO-FUEL OIL	0.016495813	t/TJ
2024	SO2	1A1a	BIOLOGICAL SLURRY	0.361668389	t/TJ
2024	SO2	1A1a	BLAST FURNACE GAS	0.000069180	t/TJ
2024	SO2	1A1a	CHIPS FROM ROUNDWOOD	0.005015693	t/TJ
2024	SO2	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.016068210	t/TJ
2024	SO2	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.024527027	t/TJ
2024	SO2	1A1a	COAL (S=1.0%)	0.166851020	t/TJ
2024	SO2	1A1a	COKE OVEN GAS	0.296485515	t/TJ
2024	SO2	1A1a	CUTTER CHIPS ETC.	0.007027807	t/TJ
2024	SO2	1A1a	DEINKING WASTE	0.016557737	t/TJ
2024	SO2	1A1a	DEMOLITION WOOD	0.018034789	t/TJ
2024	SO2	1A1a	DIESEL OIL (S=001%)	0.097481167	t/TJ

2024	SO2	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.019718142	t/TJ
2024	SO2	1A1a	FOREST RESIDUE CHIPS	0.005860648	t/TJ
2024	SO2	1A1a	FOREST RESIDUE CHIPS	0.020000000	t/TJ
2024	SO2	1A1a	GASOIL (FOR NON-ROAD USE)	0.023483372	t/TJ
2024	SO2	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.005123345	t/TJ
2024	SO2	1A1a	HEAVY FUEL OIL (S<0,1%)	0.078251052	t/TJ
2024	SO2	1A1a	HEAVY FUEL OIL (S<0,5%)	0.051521185	t/TJ
2024	SO2	1A1a	HEAVY FUEL OIL (S<1%)	0.100845300	t/TJ
2024	SO2	1A1a	HYDROGEN	0.000000207	t/TJ
2024	SO2	1A1a	IMPREGNATED WOOD	0.027200048	t/TJ
2024	SO2	1A1a	INDUSTRIAL WASTE	0.008711306	t/TJ
2024	SO2	1A1a	LANDFILL GAS	0.015774228	t/TJ
2024	SO2	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.037116151	t/TJ
2024	SO2	1A1a	LIQUEFIED NATURAL GAS (LNG)	0.000009000	t/TJ
2024	SO2	1A1a	LIQUID GAS	0.000107196	t/TJ
2024	SO2	1A1a	MILLED PEAT	0.063259331	t/TJ
2024	SO2	1A1a	MOTOR GASOLINE (S=0.001%)	0.043000000	t/TJ
2024	SO2	1A1a	MUNICIPAL WASTE - unsorted	0.002294403	t/TJ
2024	SO2	1A1a	NAPHTHA	0.006122449	t/TJ
2024	SO2	1A1a	NATURAL GAS	0.000041047	t/TJ
2024	SO2	1A1a	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.006160177	t/TJ
2024	SO2	1A1a	OTHER FOSSIL GAS	0.000016161	t/TJ
2024	SO2	1A1a	OTHER FOSSIL SOLID	0.017290828	t/TJ
2024	SO2	1A1a	OTHER MEDIUM DISTILLATES	0.079824809	t/TJ
2024	SO2	1A1a	OTHER NON-FOSSIL GAS	0.010000000	t/TJ
2024	SO2	1A1a	OTHER NON-FOSSIL SOLID	0.021875431	t/TJ
2024	SO2	1A1a	OTHER NON-FOSSIL SOLID	0.026792902	t/TJ
2024	SO2	1A1a	OTHER WASTE	0.025857984	t/TJ
2024	SO2	1A1a	OTHER WOOD RESIDUE	0.006742147	t/TJ
2024	SO2	1A1a	PAPER	0.008735030	t/TJ
2024	SO2	1A1a	PLASTIC WASTE	0.038986533	t/TJ
2024	SO2	1A1a	RECOVERED FUEL (REF 2)	0.130000000	t/TJ
2024	SO2	1A1a	RECOVERED WOOD	0.035946739	t/TJ
2024	SO2	1A1a	RECYCLED AND WASTE OILS	0.140730216	t/TJ
2024	SO2	1A1a	REFINERY GASES	0.001545950	t/TJ
2024	SO2	1A1a	RENEWABLE DIESEL	0.000470000	t/TJ
2024	SO2	1A1a	SAWDUST	0.006809995	t/TJ
2024	SO2	1A1a	SOD PEAT	0.142551533	t/TJ
2024	SO2	1A1a	SOLID RECOVERED FUEL (SRF)	0.019126905	t/TJ
2024	SO2	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005701764	t/TJ
2024	SO2	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.002708662	t/TJ
2024	SO2	1A1a	WOOD RESIDUE CHIPS	0.008941234	t/TJ
2024	SO2	1A1a	WOOD STUMP CHIPS	0.009994529	t/TJ
2024	SO2	1A1b	COKE (S=1.0%)	0.012489248	t/TJ
2024	SO2	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.008780480	t/TJ
2024	SO2	1A1b	LIQUID GAS	0.000001838	t/TJ
2024	SO2	1A1b	NATURAL GAS	0.020721258	t/TJ
2024	SO2	1A1b	OTHER NON-FOSSIL GAS	0.000294934	t/TJ
2024	SO2	1A1b	PETROLEUM COKE	0.055332483	t/TJ
2024	SO2	1A1b	REFINERY GAS	0.000514150	t/TJ
2024	SO2	1A1b	REFINERY GASES	0.111819737	t/TJ
2024	SO2	1A1b	SULPHUR CONCENTRATE	0.294933822	t/TJ
2024	SO2	1A2a	BLAST FURNACE GAS	0.000012758	t/TJ
2024	SO2	1A2a	COKE (S=1.0%)	0.376430760	t/TJ
2024	SO2	1A2a	COKE OVEN GAS	0.021912729	t/TJ

2024	SO2	1A2a	DIESEL OIL (S=001%)	0.000470000	t/TJ
2024	SO2	1A2a	GASOIL (FOR NON-ROAD USE)	0.217460556	t/TJ
2024	SO2	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.052927115	t/TJ
2024	SO2	1A2a	LIQUID GAS	0.000001277	t/TJ
2024	SO2	1A2a	NATURAL GAS	0.000166713	t/TJ
2024	SO2	1A2a	OTHER FOSSIL SOLID	2.000000000	t/TJ
2024	SO2	1A2a	WOOD RESIDUE CHIPS	0.021052632	t/TJ
2024	SO2	1A2b	COAL (S=1.0%)	15.067878363	t/TJ
2024	SO2	1A2b	COKE (S=1.0%)	5.934571097	t/TJ
2024	SO2	1A2b	DIESEL OIL (S=001%)	0.000470000	t/TJ
2024	SO2	1A2b	GASOIL (FOR NON-ROAD USE)	0.043000000	t/TJ
2024	SO2	1A2b	HEAVY FUEL OIL (S<1%)	2.486067612	t/TJ
2024	SO2	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.065430864	t/TJ
2024	SO2	1A2b	LIQUEFIED NATURAL GAS (LNG)	0.000009000	t/TJ
2024	SO2	1A2b	LIQUID GAS	0.001952884	t/TJ
2024	SO2	1A2b	NAPHTHA	0.043000000	t/TJ
2024	SO2	1A2b	OTHER HEAVY DISTILLATES	6.004085862	t/TJ
2024	SO2	1A2c	AROMATIC GAS	0.024199841	t/TJ
2024	SO2	1A2c	DIESEL OIL (S=001%)	0.000470000	t/TJ
2024	SO2	1A2c	GASIFIED WASTE	0.000254695	t/TJ
2024	SO2	1A2c	GASOIL (FOR NON-ROAD USE)	0.052288669	t/TJ
2024	SO2	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.728130813	t/TJ
2024	SO2	1A2c	HEAVY FUEL OIL (S<0,1%)	0.767915084	t/TJ
2024	SO2	1A2c	HEAVY FUEL OIL (S<1%)	0.490472281	t/TJ
2024	SO2	1A2c	HYDROGEN	0.000000200	t/TJ
2024	SO2	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.062769188	t/TJ
2024	SO2	1A2c	LIQUEFIED NATURAL GAS (LNG)	0.000321940	t/TJ
2024	SO2	1A2c	LIQUID GAS	0.000008820	t/TJ
2024	SO2	1A2c	METHANOL	0.001693989	t/TJ
2024	SO2	1A2c	NAPHTHA	0.043000000	t/TJ
2024	SO2	1A2c	NATURAL GAS	0.000027847	t/TJ
2024	SO2	1A2c	OTHER FOSSIL GAS	0.003083742	t/TJ
2024	SO2	1A2c	OTHER FUEL	1.694449360	t/TJ
2024	SO2	1A2c	OTHER MEDIUM DISTILLATES	0.000851438	t/TJ
2024	SO2	1A2c	OTHER NON-FOSSIL SOLID	0.003144814	t/TJ
2024	SO2	1A2c	OTHER WASTE	0.200000000	t/TJ
2024	SO2	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.010186861	t/TJ
2024	SO2	1A2c	REFINERY GASES	0.000072313	t/TJ
2024	SO2	1A2c	RENEWABLE DIESEL	0.000470000	t/TJ
2024	SO2	1A2c	SULPHUR CONCENTRATE	5.623781311	t/TJ
2024	SO2	1A2c	TALL PITCH AND OIL	0.083958440	t/TJ
2024	SO2	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010000000	t/TJ
2024	SO2	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.029718303	t/TJ
2024	SO2	1A2d	ANIMAL-BASED FUELS	0.016169311	t/TJ
2024	SO2	1A2d	AROMATIC GAS	0.307349785	t/TJ
2024	SO2	1A2d	BARK	0.012285619	t/TJ
2024	SO2	1A2d	BIO-FUEL OIL	0.000737949	t/TJ
2024	SO2	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.002226495	t/TJ
2024	SO2	1A2d	BIOLOGICAL SLURRY	0.071769443	t/TJ
2024	SO2	1A2d	BLACK LIQUOR	0.001680628	t/TJ
2024	SO2	1A2d	CHIPS FROM ROUNDWOOD	0.012067391	t/TJ
2024	SO2	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.003175124	t/TJ
2024	SO2	1A2d	COAL (S=1.0%)	0.025220555	t/TJ
2024	SO2	1A2d	CUTTER CHIPS ETC.	0.010564610	t/TJ
2024	SO2	1A2d	DEMOLITION WOOD	0.021559088	t/TJ
2024	SO2	1A2d	FOREST RESIDUE CHIPS	0.008318836	t/TJ

2024	SO2	1A2d	GASOIL (FOR NON-ROAD USE)	2.306319120	t/TJ
2024	SO2	1A2d	HEAVY FUEL OIL (S<0,1%)	0.058224654	t/TJ
2024	SO2	1A2d	HEAVY FUEL OIL (S<0,5%)	0.220657277	t/TJ
2024	SO2	1A2d	HEAVY FUEL OIL (S<1%)	0.021215179	t/TJ
2024	SO2	1A2d	HYDROGEN	0.000000000	t/TJ
2024	SO2	1A2d	IMPREGNATED WOOD	0.021559081	t/TJ
2024	SO2	1A2d	INDUSTRIAL WASTE	0.106357444	t/TJ
2024	SO2	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.685919084	t/TJ
2024	SO2	1A2d	LIQUEFIED NATURAL GAS (LNG)	0.000009000	t/TJ
2024	SO2	1A2d	LIQUID GAS	0.000008846	t/TJ
2024	SO2	1A2d	METHANOL	0.013651610	t/TJ
2024	SO2	1A2d	MILLED PEAT	0.061351778	t/TJ
2024	SO2	1A2d	NATURAL GAS	0.000924111	t/TJ
2024	SO2	1A2d	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.020000000	t/TJ
2024	SO2	1A2d	OTHER FUEL	0.004329261	t/TJ
2024	SO2	1A2d	OTHER NON-FOSSIL GAS	0.010000000	t/TJ
2024	SO2	1A2d	OTHER WOOD RESIDUE	0.004516317	t/TJ
2024	SO2	1A2d	PAPER	0.003054453	t/TJ
2024	SO2	1A2d	PLASTIC WASTE	0.014337229	t/TJ
2024	SO2	1A2d	RECOVERED WOOD	0.010508136	t/TJ
2024	SO2	1A2d	RECYCLED AND WASTE OILS	0.021559097	t/TJ
2024	SO2	1A2d	SAWDUST	0.006015129	t/TJ
2024	SO2	1A2d	SOD PEAT	0.037243203	t/TJ
2024	SO2	1A2d	SOLID RECOVERED FUEL (SRF)	0.007728315	t/TJ
2024	SO2	1A2d	TALL PITCH AND OIL	0.003839320	t/TJ
2024	SO2	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012959027	t/TJ
2024	SO2	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.002226490	t/TJ
2024	SO2	1A2d	WOOD RESIDUE CHIPS	0.007209710	t/TJ
2024	SO2	1A2d	WOOD STUMP CHIPS	0.004311816	t/TJ
2024	SO2	1A2e	ANIMAL FATS AND OILS	0.096049835	t/TJ
2024	SO2	1A2e	ANIMAL-BASED FUELS	0.150000000	t/TJ
2024	SO2	1A2e	BARK	0.040355451	t/TJ
2024	SO2	1A2e	BIO-FUEL OIL	0.023487784	t/TJ
2024	SO2	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.000048035	t/TJ
2024	SO2	1A2e	CHIPS FROM ROUNDWOOD	0.019530618	t/TJ
2024	SO2	1A2e	COKE (S=1.0%)	0.000964253	t/TJ
2024	SO2	1A2e	FOREST RESIDUE CHIPS	0.010606366	t/TJ
2024	SO2	1A2e	GASOIL (FOR NON-ROAD USE)	0.040466861	t/TJ
2024	SO2	1A2e	HEAVY FUEL OIL (S<1%)	0.402337484	t/TJ
2024	SO2	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.054528278	t/TJ
2024	SO2	1A2e	LIQUEFIED NATURAL GAS (LNG)	0.000009901	t/TJ
2024	SO2	1A2e	LIQUID GAS	0.000431477	t/TJ
2024	SO2	1A2e	MILLED PEAT	0.144789965	t/TJ
2024	SO2	1A2e	MOTOR GASOLINE (S=0.001%)	0.012354672	t/TJ
2024	SO2	1A2e	NAPHTHA	0.043000000	t/TJ
2024	SO2	1A2e	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A2e	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A2e	OTHER MEDIUM DISTILLATES	0.056000000	t/TJ
2024	SO2	1A2e	OTHER NON-FOSSIL GAS	0.043140073	t/TJ
2024	SO2	1A2e	OTHER NON-FOSSIL SOLID	0.055470285	t/TJ
2024	SO2	1A2e	OTHER NON-FOSSIL SOLID	0.008765526	t/TJ
2024	SO2	1A2e	PEAT PELLETS AND BRIQUETTES	0.112853308	t/TJ
2024	SO2	1A2e	RECOVERED WOOD	0.151332896	t/TJ
2024	SO2	1A2e	SAWDUST	0.020001645	t/TJ
2024	SO2	1A2e	SOD PEAT	0.054866620	t/TJ

2024	SO2	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010651365	t/TJ
2024	SO2	1A2f	CHIPS FROM ROUNDWOOD	0.014844661	t/TJ
2024	SO2	1A2f	COAL (S=1.0%)	0.166383480	t/TJ
2024	SO2	1A2f	COKE OVEN GAS	0.010781671	t/TJ
2024	SO2	1A2f	DIESEL OIL (S=001%)	0.001303410	t/TJ
2024	SO2	1A2f	FOREST RESIDUE CHIPS	0.014844661	t/TJ
2024	SO2	1A2f	GASOIL (FOR NON-ROAD USE)	0.042812489	t/TJ
2024	SO2	1A2f	HEAVY FUEL OIL (S<0,1%)	0.426631824	t/TJ
2024	SO2	1A2f	HEAVY FUEL OIL (S<1%)	0.338493823	t/TJ
2024	SO2	1A2f	INDUSTRIAL WASTE	0.006376421	t/TJ
2024	SO2	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.043144901	t/TJ
2024	SO2	1A2f	LIQUID GAS	0.080099853	t/TJ
2024	SO2	1A2f	MOTOR GASOLINE (S=0.001%)	0.036832319	t/TJ
2024	SO2	1A2f	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A2f	NATURAL GAS	0.005514903	t/TJ
2024	SO2	1A2f	OTHER FOSSIL LIQUID	0.087407287	t/TJ
2024	SO2	1A2f	OTHER FUEL	0.009360747	t/TJ
2024	SO2	1A2f	OTHER HEAVY DISTILLATES	0.117369508	t/TJ
2024	SO2	1A2f	OTHER NON-FOSSIL GAS	0.010000000	t/TJ
2024	SO2	1A2f	PETROLEUM COKE	0.027925767	t/TJ
2024	SO2	1A2f	PLASTIC WASTE	0.007470140	t/TJ
2024	SO2	1A2f	RECOVERED WOOD	0.111334959	t/TJ
2024	SO2	1A2f	RECYCLED AND WASTE OILS	0.317820314	t/TJ
2024	SO2	1A2f	RUBBER WASTE	0.008660512	t/TJ
2024	SO2	1A2f	SAWDUST	0.021659429	t/TJ
2024	SO2	1A2f	SOLID RECOVERED FUEL (SRF)	0.013890010	t/TJ
2024	SO2	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.010829715	t/TJ
2024	SO2	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A2gvii	LIQUID GAS	0.000008639	t/TJ
2024	SO2	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000369193	t/TJ
2024	SO2	1A2gviii	ANIMAL-BASED FUELS	0.000015440	t/TJ
2024	SO2	1A2gviii	BARK	0.015327959	t/TJ
2024	SO2	1A2gviii	BIO-FUEL OIL	0.024723937	t/TJ
2024	SO2	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.070812754	t/TJ
2024	SO2	1A2gviii	BIOLOGICAL SLURRY	0.103044431	t/TJ
2024	SO2	1A2gviii	CHIPS FROM ROUNDWOOD	0.001729916	t/TJ
2024	SO2	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.004037228	t/TJ
2024	SO2	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.011025537	t/TJ
2024	SO2	1A2gviii	CUTTER CHIPS ETC.	0.014987471	t/TJ
2024	SO2	1A2gviii	DECIDUOUS TREE	0.020000000	t/TJ
2024	SO2	1A2gviii	DEMOLITION WOOD	0.000836339	t/TJ
2024	SO2	1A2gviii	DIESEL OIL (S=001%)	0.064335616	t/TJ
2024	SO2	1A2gviii	FOREST RESIDUE CHIPS	0.020000000	t/TJ
2024	SO2	1A2gviii	FOREST RESIDUE CHIPS	0.002911173	t/TJ
2024	SO2	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.029311722	t/TJ
2024	SO2	1A2gviii	HAZARDOUS WASTE	0.002434050	t/TJ
2024	SO2	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.013750000	t/TJ
2024	SO2	1A2gviii	HEAVY FUEL OIL (S<1%)	0.403660635	t/TJ
2024	SO2	1A2gviii	IMPREGNATED WOOD	0.002390441	t/TJ
2024	SO2	1A2gviii	LANDFILL GAS	0.017000000	t/TJ
2024	SO2	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.029935333	t/TJ
2024	SO2	1A2gviii	LIQUEFIED NATURAL GAS (LNG)	0.000009000	t/TJ
2024	SO2	1A2gviii	LIQUID GAS	0.000056759	t/TJ
2024	SO2	1A2gviii	MANURE	0.000015440	t/TJ
2024	SO2	1A2gviii	MILLED PEAT	0.053477436	t/TJ
2024	SO2	1A2gviii	MUNICIPAL WASTE - unsorted	0.002704564	t/TJ

2024	SO2	1A2gviii	NAPHTHA	0.029953316	t/TJ
2024	SO2	1A2gviii	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A2gviii	NATURAL GAS	0.014444298	t/TJ
2024	SO2	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.004887224	t/TJ
2024	SO2	1A2gviii	OTHER HEAVY DISTILLATES	0.035193037	t/TJ
2024	SO2	1A2gviii	OTHER NON-FOSSIL GAS	0.009974806	t/TJ
2024	SO2	1A2gviii	OTHER NON-FOSSIL SOLID	0.012871931	t/TJ
2024	SO2	1A2gviii	OTHER NON-FOSSIL SOLID	0.051702851	t/TJ
2024	SO2	1A2gviii	OTHER WOOD RESIDUE	0.029088205	t/TJ
2024	SO2	1A2gviii	PLASTIC WASTE	0.001367471	t/TJ
2024	SO2	1A2gviii	RECOVERED WOOD	0.023621499	t/TJ
2024	SO2	1A2gviii	RECYCLED AND WASTE OILS	0.010534262	t/TJ
2024	SO2	1A2gviii	RENEWABLE DIESEL	0.029215253	t/TJ
2024	SO2	1A2gviii	SAWDUST	0.003416632	t/TJ
2024	SO2	1A2gviii	SAWDUST AND CUTTER CHIPS	0.020000000	t/TJ
2024	SO2	1A2gviii	SOD PEAT	0.088930770	t/TJ
2024	SO2	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.001023049	t/TJ
2024	SO2	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.013381667	t/TJ
2024	SO2	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.006335581	t/TJ
2024	SO2	1A2gviii	WOOD RESIDUE CHIPS	0.009478065	t/TJ
2024	SO2	1A2gviii	WOOD STUMP CHIPS	0.000074363	t/TJ
2024	SO2	1A3ai(i)	KEROSENE (JET FUEL)	0.019400000	t/TJ
2024	SO2	1A3aii(i)	AVIATION GASOLINE	0.000920000	t/TJ
2024	SO2	1A3aii(i)	KEROSENE (JET FUEL)	0.019399538	t/TJ
2024	SO2	1A3bi	DIESEL OIL (S=001%)	0.000268264	t/TJ
2024	SO2	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000318975	t/TJ
2024	SO2	1A3bi	NATURAL GAS	0.000113552	t/TJ
2024	SO2	1A3bii	DIESEL OIL (S=001%)	0.000268713	t/TJ
2024	SO2	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000231543	t/TJ
2024	SO2	1A3biii	DIESEL OIL (S=001%)	0.000268713	t/TJ
2024	SO2	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000119434	t/TJ
2024	SO2	1A3biii	NATURAL GAS	0.000064804	t/TJ
2024	SO2	1A3biv	DIESEL OIL (S=001%)	0.000268713	t/TJ
2024	SO2	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000331899	t/TJ
2024	SO2	1A3c	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A3dii	DIESEL OIL (S=001%)	0.000278268	t/TJ
2024	SO2	1A3dii	GASOIL (FOR NON-ROAD USE)	0.021653915	t/TJ
2024	SO2	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.035394038	t/TJ
2024	SO2	1A3dii	MOTOR GASOLINE (S=0.001%)	0.000369193	t/TJ
2024	SO2	1A3ei	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A4ai	BIO-FUEL OIL	0.043000000	t/TJ
2024	SO2	1A4ai	FOREST WOODFUEL	0.005000000	t/TJ
2024	SO2	1A4ai	GASOIL (FOR NON-ROAD USE)	0.021105855	t/TJ
2024	SO2	1A4ai	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2024	SO2	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.043242011	t/TJ
2024	SO2	1A4ai	NAPHTHA	0.000451467	t/TJ
2024	SO2	1A4ai	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A4ai	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A4ai	SOD PEAT	0.180000000	t/TJ
2024	SO2	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000369193	t/TJ
2024	SO2	1A4bi	FOREST WOODFUEL	0.005000000	t/TJ
2024	SO2	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.043000000	t/TJ
2024	SO2	1A4bi	LIQUID GAS	0.000009000	t/TJ
2024	SO2	1A4bi	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A4bi	PARAFFIN	0.009300000	t/TJ

2024	SO2	1A4bi	SOD PEAT	0.180000000	t/TJ
2024	SO2	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000369193	t/TJ
2024	SO2	1A4ci	ANIMAL-BASED FUELS	0.017441860	t/TJ
2024	SO2	1A4ci	CHIPS FROM ROUNDWOOD	0.051728225	t/TJ
2024	SO2	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.020000000	t/TJ
2024	SO2	1A4ci	FOREST RESIDUE CHIPS	0.020000000	t/TJ
2024	SO2	1A4ci	FOREST WOODFUEL	0.005000000	t/TJ
2024	SO2	1A4ci	GASOIL (FOR NON-ROAD USE)	0.043000000	t/TJ
2024	SO2	1A4ci	HEAVY FUEL OIL (S<1%)	0.438000000	t/TJ
2024	SO2	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.043000000	t/TJ
2024	SO2	1A4ci	LIQUID GAS	0.000009000	t/TJ
2024	SO2	1A4ci	MILLED PEAT	0.396094141	t/TJ
2024	SO2	1A4ci	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A4ci	OTHER NON-FOSSIL SOLID	0.001089325	t/TJ
2024	SO2	1A4ci	RECOVERED WOOD	0.184542876	t/TJ
2024	SO2	1A4ci	SOD PEAT	0.179039025	t/TJ
2024	SO2	1A4ci	WOOD RESIDUE CHIPS	0.002325581	t/TJ
2024	SO2	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000369193	t/TJ
2024	SO2	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000292056	t/TJ
2024	SO2	1A5a	FOREST WOODFUEL	0.020000000	t/TJ
2024	SO2	1A5a	KEROSENE (JET FUEL)	0.018384132	t/TJ
2024	SO2	1A5a	LANDFILL GAS	0.017000000	t/TJ
2024	SO2	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.049186883	t/TJ
2024	SO2	1A5a	LIQUID GAS	0.000009000	t/TJ
2024	SO2	1A5a	NATURAL GAS	0.000040000	t/TJ
2024	SO2	1A5a	OTHER PETROLEUM PRODUCTS	0.100000000	t/TJ

NH3 Implied emission factors in Finnish air pollutant inventory for 2024

2024	NH3	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000194704	t/TJ
2024	NH3	1A2gvii	LIQUID GAS	0.000215983	t/TJ
2024	NH3	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000105484	t/TJ
2024	NH3	1A3bi	DIESEL OIL (S=001%)	0.002114629	t/TJ
2024	NH3	1A3bi	MOTOR GASOLINE (S=0.001%)	0.016236694	t/TJ
2024	NH3	1A3bi	NATURAL GAS	0.013384762	t/TJ
2024	NH3	1A3bii	DIESEL OIL (S=001%)	0.001668479	t/TJ
2024	NH3	1A3bii	MOTOR GASOLINE (S=0.001%)	0.006169699	t/TJ
2024	NH3	1A3biii	DIESEL OIL (S=001%)	0.000640821	t/TJ
2024	NH3	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000139451	t/TJ
2024	NH3	1A3biii	NATURAL GAS	0.003662225	t/TJ
2024	NH3	1A3biv	DIESEL OIL (S=001%)	0.000277678	t/TJ
2024	NH3	1A3biv	MOTOR GASOLINE (S=0.001%)	0.001406113	t/TJ
2024	NH3	1A3c	GASOIL (FOR NON-ROAD USE)	0.000170366	t/TJ
2024	NH3	1A3dii	DIESEL OIL (S=001%)	0.000219832	t/TJ
2024	NH3	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000185076	t/TJ
2024	NH3	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000187648	t/TJ
2024	NH3	1A3dii	MOTOR GASOLINE (S=0.001%)	0.000123943	t/TJ
2024	NH3	1A4ai	FOREST WOODFUEL	0.001672269	t/TJ
2024	NH3	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000194704	t/TJ
2024	NH3	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000096337	t/TJ
2024	NH3	1A4bi	FOREST WOODFUEL	0.021474455	t/TJ
2024	NH3	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000194704	t/TJ
2024	NH3	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000097853	t/TJ
2024	NH3	1A4ci	FOREST WOODFUEL	0.001700900	t/TJ

2024	NH3	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000194704	t/TJ
2024	NH3	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000079318	t/TJ
2024	NH3	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000192271	t/TJ
2024	NH3	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000026528	t/TJ

PM2.5 Implied emission factors in Finnish air pollutant inventory for 2024

2024	PM 2.5	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000077491	t/TJ
2024	PM 2.5	1A1a	ANIMAL-BASED FUELS	0.000034680	t/TJ
2024	PM 2.5	1A1a	ASPHALTENE	0.000128065	t/TJ
2024	PM 2.5	1A1a	BARK	0.000582744	t/TJ
2024	PM 2.5	1A1a	BIO PELLETS (NON-WOOD)	0.000020894	t/TJ
2024	PM 2.5	1A1a	BIO PYROLYSIS OIL	0.000019672	t/TJ
2024	PM 2.5	1A1a	BIO-FUEL OIL	0.000121934	t/TJ
2024	PM 2.5	1A1a	BIOLOGICAL SLURRY	0.001312098	t/TJ
2024	PM 2.5	1A1a	CHIPS FROM ROUNDWOOD	0.000652812	t/TJ
2024	PM 2.5	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000289053	t/TJ
2024	PM 2.5	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000551702	t/TJ
2024	PM 2.5	1A1a	COAL (S=1.0%)	0.003488928	t/TJ
2024	PM 2.5	1A1a	CUTTER CHIPS ETC.	0.001432983	t/TJ
2024	PM 2.5	1A1a	DEINKING WASTE	0.000030118	t/TJ
2024	PM 2.5	1A1a	DEMOLITION WOOD	0.000429603	t/TJ
2024	PM 2.5	1A1a	DIESEL OIL (S=0.001%)	0.143877962	t/TJ
2024	PM 2.5	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.012360366	t/TJ
2024	PM 2.5	1A1a	FOREST RESIDUE CHIPS	0.000310996	t/TJ
2024	PM 2.5	1A1a	FOREST RESIDUE CHIPS	0.010188785	t/TJ
2024	PM 2.5	1A1a	GASOIL (FOR NON-ROAD USE)	0.000391988	t/TJ
2024	PM 2.5	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.002233597	t/TJ
2024	PM 2.5	1A1a	HEAVY FUEL OIL (S<0,1%)	0.002707340	t/TJ
2024	PM 2.5	1A1a	HEAVY FUEL OIL (S<0,5%)	0.002409068	t/TJ
2024	PM 2.5	1A1a	HEAVY FUEL OIL (S<1%)	0.021596163	t/TJ
2024	PM 2.5	1A1a	IMPREGNATED WOOD	0.000868132	t/TJ
2024	PM 2.5	1A1a	INDUSTRIAL WASTE	0.000088581	t/TJ
2024	PM 2.5	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.000908045	t/TJ
2024	PM 2.5	1A1a	MILLED PEAT	0.000557457	t/TJ
2024	PM 2.5	1A1a	MOTOR GASOLINE (S=0.001%)	0.000839998	t/TJ
2024	PM 2.5	1A1a	MUNICIPAL WASTE - unsorted	0.000034127	t/TJ
2024	PM 2.5	1A1a	NAPHTHA	0.000073469	t/TJ
2024	PM 2.5	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000877636	t/TJ
2024	PM 2.5	1A1a	OTHER FOSSIL SOLID	0.000096410	t/TJ
2024	PM 2.5	1A1a	OTHER MEDIUM DISTILLATES	0.000629186	t/TJ
2024	PM 2.5	1A1a	OTHER NON-FOSSIL SOLID	0.000634364	t/TJ
2024	PM 2.5	1A1a	OTHER NON-FOSSIL SOLID	0.000873700	t/TJ
2024	PM 2.5	1A1a	OTHER WASTE	0.000032817	t/TJ
2024	PM 2.5	1A1a	OTHER WOOD RESIDUE	0.000210475	t/TJ
2024	PM 2.5	1A1a	PAPER	0.000023152	t/TJ
2024	PM 2.5	1A1a	PLASTIC WASTE	0.003333333	t/TJ
2024	PM 2.5	1A1a	RECOVERED FUEL (REF 2)	0.010000000	t/TJ
2024	PM 2.5	1A1a	RECOVERED WOOD	0.000318673	t/TJ
2024	PM 2.5	1A1a	RECYCLED AND WASTE OILS	0.000210849	t/TJ
2024	PM 2.5	1A1a	RENEWABLE DIESEL	0.001643478	t/TJ
2024	PM 2.5	1A1a	SAWDUST	0.000506163	t/TJ
2024	PM 2.5	1A1a	SOD PEAT	0.009753137	t/TJ
2024	PM 2.5	1A1a	SOLID RECOVERED FUEL (SRF)	0.000145604	t/TJ
2024	PM 2.5	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001258070	t/TJ
2024	PM 2.5	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000688777	t/TJ

2024	PM 2.5	1A1a	WOOD RESIDUE CHIPS	0.000737166	t/TJ
2024	PM 2.5	1A1a	WOOD STUMP CHIPS	0.000631464	t/TJ
2024	PM 2.5	1A1b	COKE (S=1.0%)	0.007500000	t/TJ
2024	PM 2.5	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000840000	t/TJ
2024	PM 2.5	1A1b	PETROLEUM COKE	0.002942222	t/TJ
2024	PM 2.5	1A1b	SULPHUR CONCENTRATE	0.003333333	t/TJ
2024	PM 2.5	1A2a	COKE (S=1.0%)	0.001994275	t/TJ
2024	PM 2.5	1A2a	DIESEL OIL (S=001%)	0.000840000	t/TJ
2024	PM 2.5	1A2a	GASOIL (FOR NON-ROAD USE)	0.001687466	t/TJ
2024	PM 2.5	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000705489	t/TJ
2024	PM 2.5	1A2a	OTHER FOSSIL SOLID	0.003286674	t/TJ
2024	PM 2.5	1A2a	WOOD RESIDUE CHIPS	0.001842105	t/TJ
2024	PM 2.5	1A2b	COAL (S=1.0%)	0.002500000	t/TJ
2024	PM 2.5	1A2b	COKE (S=1.0%)	0.000977697	t/TJ
2024	PM 2.5	1A2b	DIESEL OIL (S=001%)	0.000840000	t/TJ
2024	PM 2.5	1A2b	GASOIL (FOR NON-ROAD USE)	0.000840000	t/TJ
2024	PM 2.5	1A2b	HEAVY FUEL OIL (S<1%)	0.015580178	t/TJ
2024	PM 2.5	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000132420	t/TJ
2024	PM 2.5	1A2b	NAPHTHA	0.001536492	t/TJ
2024	PM 2.5	1A2b	OTHER HEAVY DISTILLATES	0.005475120	t/TJ
2024	PM 2.5	1A2c	DIESEL OIL (S=001%)	0.000840002	t/TJ
2024	PM 2.5	1A2c	GASOIL (FOR NON-ROAD USE)	0.001643704	t/TJ
2024	PM 2.5	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.004647618	t/TJ
2024	PM 2.5	1A2c	HEAVY FUEL OIL (S<0,1%)	0.018952581	t/TJ
2024	PM 2.5	1A2c	HEAVY FUEL OIL (S<1%)	0.012555635	t/TJ
2024	PM 2.5	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000593882	t/TJ
2024	PM 2.5	1A2c	METHANOL	0.000840000	t/TJ
2024	PM 2.5	1A2c	NAPHTHA	0.000840000	t/TJ
2024	PM 2.5	1A2c	OTHER FUEL	0.003500000	t/TJ
2024	PM 2.5	1A2c	OTHER MEDIUM DISTILLATES	0.000163177	t/TJ
2024	PM 2.5	1A2c	OTHER NON-FOSSIL SOLID	0.003646513	t/TJ
2024	PM 2.5	1A2c	OTHER WASTE	0.002606726	t/TJ
2024	PM 2.5	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.008158839	t/TJ
2024	PM 2.5	1A2c	RENEWABLE DIESEL	0.000839998	t/TJ
2024	PM 2.5	1A2c	SULPHUR CONCENTRATE	0.003333330	t/TJ
2024	PM 2.5	1A2c	TALL PITCH AND OIL	0.034242870	t/TJ
2024	PM 2.5	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001050981	t/TJ
2024	PM 2.5	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.001442111	t/TJ
2024	PM 2.5	1A2d	ANIMAL-BASED FUELS	0.001540631	t/TJ
2024	PM 2.5	1A2d	BARK	0.000979565	t/TJ
2024	PM 2.5	1A2d	BIO-FUEL OIL	0.000773654	t/TJ
2024	PM 2.5	1A2d	BIOLOGICAL SLURRY	0.000064687	t/TJ
2024	PM 2.5	1A2d	BLACK LIQUOR	0.003677424	t/TJ
2024	PM 2.5	1A2d	CHIPS FROM ROUNDWOOD	0.000640096	t/TJ
2024	PM 2.5	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000021021	t/TJ
2024	PM 2.5	1A2d	COAL (S=1.0%)	0.000527995	t/TJ
2024	PM 2.5	1A2d	CUTTER CHIPS ETC.	0.001860069	t/TJ
2024	PM 2.5	1A2d	DEMOLITION WOOD	0.000539220	t/TJ
2024	PM 2.5	1A2d	FOREST RESIDUE CHIPS	0.000594134	t/TJ
2024	PM 2.5	1A2d	GASOIL (FOR NON-ROAD USE)	0.000581840	t/TJ
2024	PM 2.5	1A2d	HEAVY FUEL OIL (S<0,1%)	0.002922255	t/TJ
2024	PM 2.5	1A2d	HEAVY FUEL OIL (S<0,5%)	0.007887324	t/TJ
2024	PM 2.5	1A2d	HEAVY FUEL OIL (S<1%)	0.012589555	t/TJ
2024	PM 2.5	1A2d	IMPREGNATED WOOD	0.000539221	t/TJ
2024	PM 2.5	1A2d	INDUSTRIAL WASTE	0.001537015	t/TJ
2024	PM 2.5	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000560709	t/TJ

2024	PM 2.5	1A2d	METHANOL	0.000344330	t/TJ
2024	PM 2.5	1A2d	MILLED PEAT	0.001733343	t/TJ
2024	PM 2.5	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003179765	t/TJ
2024	PM 2.5	1A2d	OTHER FUEL	0.003414162	t/TJ
2024	PM 2.5	1A2d	PAPER	0.002193774	t/TJ
2024	PM 2.5	1A2d	PLASTIC WASTE	0.000726579	t/TJ
2024	PM 2.5	1A2d	RECOVERED WOOD	0.000885342	t/TJ
2024	PM 2.5	1A2d	RECYCLED AND WASTE OILS	0.001034122	t/TJ
2024	PM 2.5	1A2d	SAWDUST	0.001815069	t/TJ
2024	PM 2.5	1A2d	SOD PEAT	0.003589791	t/TJ
2024	PM 2.5	1A2d	SOLID RECOVERED FUEL (SRF)	0.000294694	t/TJ
2024	PM 2.5	1A2d	TALL PITCH AND OIL	0.006452295	t/TJ
2024	PM 2.5	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000581566	t/TJ
2024	PM 2.5	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000132659	t/TJ
2024	PM 2.5	1A2d	WOOD RESIDUE CHIPS	0.000572734	t/TJ
2024	PM 2.5	1A2d	WOOD STUMP CHIPS	0.000539221	t/TJ
2024	PM 2.5	1A2e	ANIMAL FATS AND OILS	0.000657292	t/TJ
2024	PM 2.5	1A2e	ANIMAL-BASED FUELS	0.010000000	t/TJ
2024	PM 2.5	1A2e	BARK	0.000373503	t/TJ
2024	PM 2.5	1A2e	BIO-FUEL OIL	0.000840000	t/TJ
2024	PM 2.5	1A2e	CHIPS FROM ROUNDWOOD	0.003445186	t/TJ
2024	PM 2.5	1A2e	COKE (S=1.0%)	0.000133159	t/TJ
2024	PM 2.5	1A2e	FOREST RESIDUE CHIPS	0.000507642	t/TJ
2024	PM 2.5	1A2e	GASOIL (FOR NON-ROAD USE)	0.000674488	t/TJ
2024	PM 2.5	1A2e	HEAVY FUEL OIL (S<1%)	0.026328928	t/TJ
2024	PM 2.5	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.002986209	t/TJ
2024	PM 2.5	1A2e	MILLED PEAT	0.001017131	t/TJ
2024	PM 2.5	1A2e	MOTOR GASOLINE (S=0.001%)	0.001419866	t/TJ
2024	PM 2.5	1A2e	NAPHTHA	0.000840000	t/TJ
2024	PM 2.5	1A2e	OTHER MEDIUM DISTILLATES	0.000840000	t/TJ
2024	PM 2.5	1A2e	OTHER NON-FOSSIL SOLID	0.000485426	t/TJ
2024	PM 2.5	1A2e	OTHER NON-FOSSIL SOLID	0.018549524	t/TJ
2024	PM 2.5	1A2e	PEAT PELLETS AND BRIQUETTES	0.001549668	t/TJ
2024	PM 2.5	1A2e	RECOVERED WOOD	0.000373502	t/TJ
2024	PM 2.5	1A2e	SAWDUST	0.003471055	t/TJ
2024	PM 2.5	1A2e	SOD PEAT	0.001468865	t/TJ
2024	PM 2.5	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.002229001	t/TJ
2024	PM 2.5	1A2f	CHIPS FROM ROUNDWOOD	0.002717008	t/TJ
2024	PM 2.5	1A2f	COAL (S=1.0%)	0.000153197	t/TJ
2024	PM 2.5	1A2f	DIESEL OIL (S=0.001%)	0.000840000	t/TJ
2024	PM 2.5	1A2f	FOREST RESIDUE CHIPS	0.002717008	t/TJ
2024	PM 2.5	1A2f	GASOIL (FOR NON-ROAD USE)	0.000914693	t/TJ
2024	PM 2.5	1A2f	HEAVY FUEL OIL (S<0,1%)	0.053466471	t/TJ
2024	PM 2.5	1A2f	HEAVY FUEL OIL (S<1%)	0.038943607	t/TJ
2024	PM 2.5	1A2f	INDUSTRIAL WASTE	0.000861117	t/TJ
2024	PM 2.5	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000917816	t/TJ
2024	PM 2.5	1A2f	MOTOR GASOLINE (S=0.001%)	0.001194477	t/TJ
2024	PM 2.5	1A2f	OTHER FOSSIL LIQUID	0.002070864	t/TJ
2024	PM 2.5	1A2f	OTHER FUEL	0.001868097	t/TJ
2024	PM 2.5	1A2f	OTHER HEAVY DISTILLATES	0.007065799	t/TJ
2024	PM 2.5	1A2f	PETROLEUM COKE	0.004153533	t/TJ
2024	PM 2.5	1A2f	PLASTIC WASTE	0.000534181	t/TJ
2024	PM 2.5	1A2f	RECOVERED WOOD	0.002717008	t/TJ
2024	PM 2.5	1A2f	RECYCLED AND WASTE OILS	0.000163551	t/TJ
2024	PM 2.5	1A2f	RUBBER WASTE	0.008734188	t/TJ
2024	PM 2.5	1A2f	SAWDUST	0.000059181	t/TJ

2024	PM 2.5	1A2f	SOLID RECOVERED FUEL (SRF)	0.000307002	t/TJ
2024	PM 2.5	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000059181	t/TJ
2024	PM 2.5	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.011981453	t/TJ
2024	PM 2.5	1A2gvii	LIQUID GAS	0.004112771	t/TJ
2024	PM 2.5	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.004348500	t/TJ
2024	PM 2.5	1A2gviii	ANIMAL-BASED FUELS	0.000113081	t/TJ
2024	PM 2.5	1A2gviii	BARK	0.015154828	t/TJ
2024	PM 2.5	1A2gviii	BIO-FUEL OIL	0.000467571	t/TJ
2024	PM 2.5	1A2gviii	BIOLOGICAL SLURRY	0.000103509	t/TJ
2024	PM 2.5	1A2gviii	CHIPS FROM ROUNDWOOD	0.000185273	t/TJ
2024	PM 2.5	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000091898	t/TJ
2024	PM 2.5	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.002699677	t/TJ
2024	PM 2.5	1A2gviii	CUTTER CHIPS ETC.	0.003737695	t/TJ
2024	PM 2.5	1A2gviii	DECIDUOUS TREE	0.003500000	t/TJ
2024	PM 2.5	1A2gviii	DEMOLITION WOOD	0.000017080	t/TJ
2024	PM 2.5	1A2gviii	DIESEL OIL (S=001%)	0.000658443	t/TJ
2024	PM 2.5	1A2gviii	FOREST RESIDUE CHIPS	0.000352495	t/TJ
2024	PM 2.5	1A2gviii	FOREST RESIDUE CHIPS	0.010000000	t/TJ
2024	PM 2.5	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.001142602	t/TJ
2024	PM 2.5	1A2gviii	HAZARDOUS WASTE	0.000069797	t/TJ
2024	PM 2.5	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.021175000	t/TJ
2024	PM 2.5	1A2gviii	HEAVY FUEL OIL (S<1%)	0.038503170	t/TJ
2024	PM 2.5	1A2gviii	IMPREGNATED WOOD	0.000191396	t/TJ
2024	PM 2.5	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.000616661	t/TJ
2024	PM 2.5	1A2gviii	MANURE	0.000113081	t/TJ
2024	PM 2.5	1A2gviii	MILLED PEAT	0.000068157	t/TJ
2024	PM 2.5	1A2gviii	MUNICIPAL WASTE - unsorted	0.000017997	t/TJ
2024	PM 2.5	1A2gviii	NAPHTHA	0.002031318	t/TJ
2024	PM 2.5	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000159110	t/TJ
2024	PM 2.5	1A2gviii	OTHER HEAVY DISTILLATES	0.039798930	t/TJ
2024	PM 2.5	1A2gviii	OTHER NON-FOSSIL SOLID	0.001174157	t/TJ
2024	PM 2.5	1A2gviii	OTHER NON-FOSSIL SOLID	0.000050220	t/TJ
2024	PM 2.5	1A2gviii	OTHER WOOD RESIDUE	0.016831885	t/TJ
2024	PM 2.5	1A2gviii	PLASTIC WASTE	0.000107421	t/TJ
2024	PM 2.5	1A2gviii	RECOVERED WOOD	0.000545533	t/TJ
2024	PM 2.5	1A2gviii	RECYCLED AND WASTE OILS	0.000459795	t/TJ
2024	PM 2.5	1A2gviii	RENEWABLE DIESEL	0.001071308	t/TJ
2024	PM 2.5	1A2gviii	SAWDUST	0.000770027	t/TJ
2024	PM 2.5	1A2gviii	SAWDUST AND CUTTER CHIPS	0.080676301	t/TJ
2024	PM 2.5	1A2gviii	SOD PEAT	0.006374489	t/TJ
2024	PM 2.5	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000014090	t/TJ
2024	PM 2.5	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.012733813	t/TJ
2024	PM 2.5	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.004611365	t/TJ
2024	PM 2.5	1A2gviii	WOOD RESIDUE CHIPS	0.003875891	t/TJ
2024	PM 2.5	1A2gviii	WOOD STUMP CHIPS	0.000007206	t/TJ
2024	PM 2.5	1A3ai(i)	KEROSENE (JET FUEL)	0.002902658	t/TJ
2024	PM 2.5	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2024	PM 2.5	1A3aii(i)	KEROSENE (JET FUEL)	0.003072508	t/TJ
2024	PM 2.5	1A3bi	DIESEL OIL (S=001%)	0.007039923	t/TJ
2024	PM 2.5	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000516016	t/TJ
2024	PM 2.5	1A3bi	NATURAL GAS	0.000789295	t/TJ
2024	PM 2.5	1A3bii	DIESEL OIL (S=001%)	0.015867114	t/TJ
2024	PM 2.5	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000415977	t/TJ
2024	PM 2.5	1A3biii	DIESEL OIL (S=001%)	0.002880728	t/TJ
2024	PM 2.5	1A3biii	NATURAL GAS	0.000360456	t/TJ
2024	PM 2.5	1A3biv	DIESEL OIL (S=001%)	0.035220323	t/TJ

2024	PM 2.5	1A3biv	MOTOR GASOLINE (S=0.001%)	0.006876409	t/TJ
2024	PM 2.5	1A3c	GASOIL (FOR NON-ROAD USE)	0.028805133	t/TJ
2024	PM 2.5	1A3dii	DIESEL OIL (S=001%)	0.097938018	t/TJ
2024	PM 2.5	1A3dii	GASOIL (FOR NON-ROAD USE)	0.026146345	t/TJ
2024	PM 2.5	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.031793362	t/TJ
2024	PM 2.5	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.010371777	t/TJ
2024	PM 2.5	1A3dii	MOTOR GASOLINE (S=0.001%)	0.094127357	t/TJ
2024	PM 2.5	1A4ai	BIO-FUEL OIL	0.000840003	t/TJ
2024	PM 2.5	1A4ai	FOREST WOODFUEL	0.015652933	t/TJ
2024	PM 2.5	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000626445	t/TJ
2024	PM 2.5	1A4ai	HEAVY FUEL OIL (S<1%)	0.050400000	t/TJ
2024	PM 2.5	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000839910	t/TJ
2024	PM 2.5	1A4ai	NAPHTHA	0.000750127	t/TJ
2024	PM 2.5	1A4ai	SOD PEAT	0.017575758	t/TJ
2024	PM 2.5	1A4aii	GASOIL (FOR NON-ROAD USE)	0.009647266	t/TJ
2024	PM 2.5	1A4aii	MOTOR GASOLINE (S=0.001%)	0.045158841	t/TJ
2024	PM 2.5	1A4bi	FOREST WOODFUEL	0.155728157	t/TJ
2024	PM 2.5	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.004900000	t/TJ
2024	PM 2.5	1A4bi	PARAFFIN	0.004900000	t/TJ
2024	PM 2.5	1A4bi	SOD PEAT	0.320000000	t/TJ
2024	PM 2.5	1A4bii	GASOIL (FOR NON-ROAD USE)	0.072957522	t/TJ
2024	PM 2.5	1A4bii	MOTOR GASOLINE (S=0.001%)	0.042456539	t/TJ
2024	PM 2.5	1A4ci	ANIMAL-BASED FUELS	0.048042705	t/TJ
2024	PM 2.5	1A4ci	CHIPS FROM ROUNDWOOD	0.006140728	t/TJ
2024	PM 2.5	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.003500000	t/TJ
2024	PM 2.5	1A4ci	FOREST RESIDUE CHIPS	0.003500000	t/TJ
2024	PM 2.5	1A4ci	FOREST WOODFUEL	0.015500000	t/TJ
2024	PM 2.5	1A4ci	GASOIL (FOR NON-ROAD USE)	0.000840000	t/TJ
2024	PM 2.5	1A4ci	HEAVY FUEL OIL (S<1%)	0.047163303	t/TJ
2024	PM 2.5	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000840000	t/TJ
2024	PM 2.5	1A4ci	MILLED PEAT	0.000153519	t/TJ
2024	PM 2.5	1A4ci	OTHER NON-FOSSIL SOLID	0.004594283	t/TJ
2024	PM 2.5	1A4ci	RECOVERED WOOD	0.012364443	t/TJ
2024	PM 2.5	1A4ci	SOD PEAT	0.019659834	t/TJ
2024	PM 2.5	1A4ci	WOOD RESIDUE CHIPS	0.016814947	t/TJ
2024	PM 2.5	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010002042	t/TJ
2024	PM 2.5	1A4cii	MOTOR GASOLINE (S=0.001%)	0.129830816	t/TJ
2024	PM 2.5	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.029242156	t/TJ
2024	PM 2.5	1A5a	FOREST WOODFUEL	0.010000000	t/TJ
2024	PM 2.5	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2024	PM 2.5	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.005503261	t/TJ
2024	PM 2.5	1A5a	OTHER PETROLEUM PRODUCTS	0.000840000	t/TJ

PM10 Implied emission factors in Finnish air pollutant inventory for 2023

2024	PM 10	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000187553	t/TJ
2024	PM 10	1A1a	ANIMAL-BASED FUELS	0.000017796	t/TJ
2024	PM 10	1A1a	ANTHRACITE	0.001585554	t/TJ
2024	PM 10	1A1a	ASPHALTENE	0.000196672	t/TJ
2024	PM 10	1A1a	BARK	0.001926041	t/TJ
2024	PM 10	1A1a	BIO PELLETS (NON-WOOD)	0.000056470	t/TJ
2024	PM 10	1A1a	BIO PYROLYSIS OIL	0.000081967	t/TJ
2024	PM 10	1A1a	BIO-FUEL OIL	0.000508060	t/TJ
2024	PM 10	1A1a	BIOLOGICAL SLURRY	0.003546277	t/TJ
2024	PM 10	1A1a	CHIPS FROM ROUNDWOOD	0.002815306	t/TJ
2024	PM 10	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.001522934	t/TJ

2024	PM 10	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.006809768	t/TJ
2024	PM 10	1A1a	COAL (S=1.0%)	0.010791251	t/TJ
2024	PM 10	1A1a	CUTTER CHIPS ETC.	0.007402124	t/TJ
2024	PM 10	1A1a	DEINKING WASTE	0.000084104	t/TJ
2024	PM 10	1A1a	DEMOLITION WOOD	0.001134463	t/TJ
2024	PM 10	1A1a	DIESEL OIL (S=001%)	0.599491508	t/TJ
2024	PM 10	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.001359812	t/TJ
2024	PM 10	1A1a	FOREST RESIDUE CHIPS	0.050682721	t/TJ
2024	PM 10	1A1a	FOREST RESIDUE CHIPS	0.002070120	t/TJ
2024	PM 10	1A1a	GASOIL (FOR NON-ROAD USE)	0.001634150	t/TJ
2024	PM 10	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000754868	t/TJ
2024	PM 10	1A1a	HEAVY FUEL OIL (S<0,1%)	0.004141934	t/TJ
2024	PM 10	1A1a	HEAVY FUEL OIL (S<0,5%)	0.003696847	t/TJ
2024	PM 10	1A1a	HEAVY FUEL OIL (S<1%)	0.014583632	t/TJ
2024	PM 10	1A1a	IMPREGNATED WOOD	0.002103002	t/TJ
2024	PM 10	1A1a	INDUSTRIAL WASTE	0.000297312	t/TJ
2024	PM 10	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.004187347	t/TJ
2024	PM 10	1A1a	MILLED PEAT	0.001347338	t/TJ
2024	PM 10	1A1a	MOTOR GASOLINE (S=0.001%)	0.003500000	t/TJ
2024	PM 10	1A1a	MUNICIPAL WASTE - unsorted	0.000182624	t/TJ
2024	PM 10	1A1a	NAPHTHA	0.000306122	t/TJ
2024	PM 10	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001975745	t/TJ
2024	PM 10	1A1a	OTHER FOSSIL SOLID	0.000326679	t/TJ
2024	PM 10	1A1a	OTHER MEDIUM DISTILLATES	0.002621607	t/TJ
2024	PM 10	1A1a	OTHER NON-FOSSIL SOLID	0.001535535	t/TJ
2024	PM 10	1A1a	OTHER NON-FOSSIL SOLID	0.002111532	t/TJ
2024	PM 10	1A1a	OTHER WASTE	0.000090408	t/TJ
2024	PM 10	1A1a	OTHER WOOD RESIDUE	0.000970853	t/TJ
2024	PM 10	1A1a	PAPER	0.000056034	t/TJ
2024	PM 10	1A1a	PLASTIC WASTE	0.007533337	t/TJ
2024	PM 10	1A1a	RECOVERED FUEL (REF 2)	0.052000000	t/TJ
2024	PM 10	1A1a	RECOVERED WOOD	0.000920188	t/TJ
2024	PM 10	1A1a	RECYCLED AND WASTE OILS	0.000292184	t/TJ
2024	PM 10	1A1a	RENEWABLE DIESEL	0.006847826	t/TJ
2024	PM 10	1A1a	SAWDUST	0.002285585	t/TJ
2024	PM 10	1A1a	SOD PEAT	0.048990326	t/TJ
2024	PM 10	1A1a	SOLID RECOVERED FUEL (SRF)	0.000757141	t/TJ
2024	PM 10	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.004073964	t/TJ
2024	PM 10	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005598614	t/TJ
2024	PM 10	1A1a	WOOD RESIDUE CHIPS	0.005391234	t/TJ
2024	PM 10	1A1a	WOOD STUMP CHIPS	0.006786532	t/TJ
2024	PM 10	1A1b	COKE (S=1.0%)	0.038999936	t/TJ
2024	PM 10	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.003500000	t/TJ
2024	PM 10	1A1b	PETROLEUM COKE	0.005122619	t/TJ
2024	PM 10	1A1b	SULPHUR CONCENTRATE	0.007533344	t/TJ
2024	PM 10	1A2a	COKE (S=1.0%)	0.009050945	t/TJ
2024	PM 10	1A2a	DIESEL OIL (S=001%)	0.003500000	t/TJ
2024	PM 10	1A2a	GASOIL (FOR NON-ROAD USE)	0.007031108	t/TJ
2024	PM 10	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.002596570	t/TJ
2024	PM 10	1A2a	OTHER FOSSIL SOLID	0.026985349	t/TJ
2024	PM 10	1A2a	WOOD RESIDUE CHIPS	0.027368421	t/TJ
2024	PM 10	1A2b	COAL (S=1.0%)	0.039000016	t/TJ
2024	PM 10	1A2b	COKE (S=1.0%)	0.005084041	t/TJ
2024	PM 10	1A2b	DIESEL OIL (S=001%)	0.003500000	t/TJ
2024	PM 10	1A2b	GASOIL (FOR NON-ROAD USE)	0.003500000	t/TJ
2024	PM 10	1A2b	HEAVY FUEL OIL (S<1%)	0.026579395	t/TJ

2024	PM 10	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000544300	t/TJ
2024	PM 10	1A2b	NAPHTHA	0.006402049	t/TJ
2024	PM 10	1A2b	OTHER HEAVY DISTILLATES	0.008408220	t/TJ
2024	PM 10	1A2c	DIESEL OIL (S=001%)	0.003500000	t/TJ
2024	PM 10	1A2c	GASOIL (FOR NON-ROAD USE)	0.006848765	t/TJ
2024	PM 10	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.007137414	t/TJ
2024	PM 10	1A2c	HEAVY FUEL OIL (S<0,1%)	0.029286829	t/TJ
2024	PM 10	1A2c	HEAVY FUEL OIL (S<1%)	0.034946134	t/TJ
2024	PM 10	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.002474510	t/TJ
2024	PM 10	1A2c	METHANOL	0.003500000	t/TJ
2024	PM 10	1A2c	NAPHTHA	0.003500000	t/TJ
2024	PM 10	1A2c	OTHER FUEL	0.008471070	t/TJ
2024	PM 10	1A2c	OTHER MEDIUM DISTILLATES	0.000679902	t/TJ
2024	PM 10	1A2c	OTHER NON-FOSSIL SOLID	0.008825673	t/TJ
2024	PM 10	1A2c	OTHER WASTE	0.007045326	t/TJ
2024	PM 10	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.012529639	t/TJ
2024	PM 10	1A2c	RENEWABLE DIESEL	0.003500001	t/TJ
2024	PM 10	1A2c	SULPHUR CONCENTRATE	0.007533337	t/TJ
2024	PM 10	1A2c	TALL PITCH AND OIL	0.034328162	t/TJ
2024	PM 10	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.015614569	t/TJ
2024	PM 10	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.003490346	t/TJ
2024	PM 10	1A2d	ANIMAL-BASED FUELS	0.001160609	t/TJ
2024	PM 10	1A2d	BARK	0.002970313	t/TJ
2024	PM 10	1A2d	BIO-FUEL OIL	0.003223559	t/TJ
2024	PM 10	1A2d	BIOLOGICAL SLURRY	0.000174834	t/TJ
2024	PM 10	1A2d	BLACK LIQUOR	0.006235561	t/TJ
2024	PM 10	1A2d	CHIPS FROM ROUNDWOOD	0.013654217	t/TJ
2024	PM 10	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000312316	t/TJ
2024	PM 10	1A2d	COAL (S=1.0%)	0.001591030	t/TJ
2024	PM 10	1A2d	CUTTER CHIPS ETC.	0.009672360	t/TJ
2024	PM 10	1A2d	DEMOLITION WOOD	0.001160610	t/TJ
2024	PM 10	1A2d	FOREST RESIDUE CHIPS	0.002733808	t/TJ
2024	PM 10	1A2d	GASOIL (FOR NON-ROAD USE)	0.002424331	t/TJ
2024	PM 10	1A2d	HEAVY FUEL OIL (S<0,1%)	0.004182932	t/TJ
2024	PM 10	1A2d	HEAVY FUEL OIL (S<0,5%)	0.012112676	t/TJ
2024	PM 10	1A2d	HEAVY FUEL OIL (S<1%)	0.006651559	t/TJ
2024	PM 10	1A2d	HYDROGEN	0.000632843	t/TJ
2024	PM 10	1A2d	IMPREGNATED WOOD	0.001160609	t/TJ
2024	PM 10	1A2d	INDUSTRIAL WASTE	0.008410234	t/TJ
2024	PM 10	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.002341410	t/TJ
2024	PM 10	1A2d	LIQUID GAS	0.000000068	t/TJ
2024	PM 10	1A2d	METHANOL	0.006313105	t/TJ
2024	PM 10	1A2d	MILLED PEAT	0.003919594	t/TJ
2024	PM 10	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.007695993	t/TJ
2024	PM 10	1A2d	OTHER FUEL	0.008263335	t/TJ
2024	PM 10	1A2d	PAPER	0.005309603	t/TJ
2024	PM 10	1A2d	PLASTIC WASTE	0.001642068	t/TJ
2024	PM 10	1A2d	RECOVERED WOOD	0.002095810	t/TJ
2024	PM 10	1A2d	RECYCLED AND WASTE OILS	0.001429833	t/TJ
2024	PM 10	1A2d	SAWDUST	0.009401943	t/TJ
2024	PM 10	1A2d	SOD PEAT	0.018666912	t/TJ
2024	PM 10	1A2d	SOLID RECOVERED FUEL (SRF)	0.001532411	t/TJ
2024	PM 10	1A2d	TALL PITCH AND OIL	0.003134365	t/TJ
2024	PM 10	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001407566	t/TJ
2024	PM 10	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001970934	t/TJ
2024	PM 10	1A2d	WOOD RESIDUE CHIPS	0.002911130	t/TJ

2024	PM 10	1A2d	WOOD STUMP CHIPS	0.001160609	t/TJ
2024	PM 10	1A2e	ANIMAL FATS AND OILS	0.003181704	t/TJ
2024	PM 10	1A2e	ANIMAL-BASED FUELS	0.052000000	t/TJ
2024	PM 10	1A2e	BARK	0.000903991	t/TJ
2024	PM 10	1A2e	BIO-FUEL OIL	0.034400000	t/TJ
2024	PM 10	1A2e	CHIPS FROM ROUNDWOOD	0.017914965	t/TJ
2024	PM 10	1A2e	COKE (S=1.0%)	0.000692425	t/TJ
2024	PM 10	1A2e	FOREST RESIDUE CHIPS	0.007542115	t/TJ
2024	PM 10	1A2e	GASOIL (FOR NON-ROAD USE)	0.002810365	t/TJ
2024	PM 10	1A2e	HEAVY FUEL OIL (S<1%)	0.040479661	t/TJ
2024	PM 10	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.012442537	t/TJ
2024	PM 10	1A2e	MILLED PEAT	0.005340722	t/TJ
2024	PM 10	1A2e	MOTOR GASOLINE (S=0.001%)	0.005916107	t/TJ
2024	PM 10	1A2e	NAPHTHA	0.003500000	t/TJ
2024	PM 10	1A2e	OTHER MEDIUM DISTILLATES	0.003500004	t/TJ
2024	PM 10	1A2e	OTHER NON-FOSSIL SOLID	0.001174878	t/TJ
2024	PM 10	1A2e	OTHER NON-FOSSIL SOLID	0.044895506	t/TJ
2024	PM 10	1A2e	PEAT PELLETS AND BRIQUETTES	0.008058272	t/TJ
2024	PM 10	1A2e	RECOVERED WOOD	0.000903991	t/TJ
2024	PM 10	1A2e	SAWDUST	0.018082879	t/TJ
2024	PM 10	1A2e	SOD PEAT	0.007638096	t/TJ
2024	PM 10	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.019142324	t/TJ
2024	PM 10	1A2f	CHIPS FROM ROUNDWOOD	0.040366972	t/TJ
2024	PM 10	1A2f	COAL (S=1.0%)	0.005850080	t/TJ
2024	PM 10	1A2f	DIESEL OIL (S=001%)	0.003500000	t/TJ
2024	PM 10	1A2f	FOREST RESIDUE CHIPS	0.040366972	t/TJ
2024	PM 10	1A2f	GASOIL (FOR NON-ROAD USE)	0.003811112	t/TJ
2024	PM 10	1A2f	HEAVY FUEL OIL (S<0,1%)	0.082109223	t/TJ
2024	PM 10	1A2f	HEAVY FUEL OIL (S<1%)	0.063173746	t/TJ
2024	PM 10	1A2f	INDUSTRIAL WASTE	0.004477809	t/TJ
2024	PM 10	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.003824021	t/TJ
2024	PM 10	1A2f	MOTOR GASOLINE (S=0.001%)	0.004976990	t/TJ
2024	PM 10	1A2f	OTHER FOSSIL LIQUID	0.003180255	t/TJ
2024	PM 10	1A2f	OTHER FUEL	0.004521374	t/TJ
2024	PM 10	1A2f	OTHER HEAVY DISTILLATES	0.010851063	t/TJ
2024	PM 10	1A2f	PETROLEUM COKE	0.010553032	t/TJ
2024	PM 10	1A2f	PLASTIC WASTE	0.001207251	t/TJ
2024	PM 10	1A2f	RECOVERED WOOD	0.006575992	t/TJ
2024	PM 10	1A2f	RECYCLED AND WASTE OILS	0.000386263	t/TJ
2024	PM 10	1A2f	RUBBER WASTE	0.011563573	t/TJ
2024	PM 10	1A2f	SAWDUST	0.000307739	t/TJ
2024	PM 10	1A2f	SOLID RECOVERED FUEL (SRF)	0.001596412	t/TJ
2024	PM 10	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000879255	t/TJ
2024	PM 10	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.011981453	t/TJ
2024	PM 10	1A2gvii	LIQUID GAS	0.004112771	t/TJ
2024	PM 10	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.004348500	t/TJ
2024	PM 10	1A2gviii	ANIMAL-BASED FUELS	0.000588021	t/TJ
2024	PM 10	1A2gviii	BARK	0.020989909	t/TJ
2024	PM 10	1A2gviii	BIO-FUEL OIL	0.001948214	t/TJ
2024	PM 10	1A2gviii	BIOLOGICAL SLURRY	0.000279759	t/TJ
2024	PM 10	1A2gviii	CHIPS FROM ROUNDWOOD	0.001915118	t/TJ
2024	PM 10	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.001365339	t/TJ
2024	PM 10	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.040109488	t/TJ
2024	PM 10	1A2gviii	CUTTER CHIPS ETC.	0.029707557	t/TJ
2024	PM 10	1A2gviii	DECIDUOUS TREE	0.052000000	t/TJ
2024	PM 10	1A2gviii	DEMOLITION WOOD	0.000046317	t/TJ

2024	PM 10	1A2gviii	DIESEL OIL (S=001%)	0.002733780	t/TJ
2024	PM 10	1A2gviii	FOREST RESIDUE CHIPS	0.005208510	t/TJ
2024	PM 10	1A2gviii	FOREST RESIDUE CHIPS	0.052000000	t/TJ
2024	PM 10	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.004931930	t/TJ
2024	PM 10	1A2gviii	HAZARDOUS WASTE	0.000199104	t/TJ
2024	PM 10	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.032518750	t/TJ
2024	PM 10	1A2gviii	HEAVY FUEL OIL (S<1%)	0.059042995	t/TJ
2024	PM 10	1A2gviii	IMPREGNATED WOOD	0.000520573	t/TJ
2024	PM 10	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.002569422	t/TJ
2024	PM 10	1A2gviii	MANURE	0.000588021	t/TJ
2024	PM 10	1A2gviii	MILLED PEAT	0.000337449	t/TJ
2024	PM 10	1A2gviii	MUNICIPAL WASTE - unsorted	0.000136812	t/TJ
2024	PM 10	1A2gviii	NAPHTHA	0.008463824	t/TJ
2024	PM 10	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000385094	t/TJ
2024	PM 10	1A2gviii	OTHER HEAVY DISTILLATES	0.032518250	t/TJ
2024	PM 10	1A2gviii	OTHER NON-FOSSIL SOLID	0.000121547	t/TJ
2024	PM 10	1A2gviii	OTHER NON-FOSSIL SOLID	0.002841826	t/TJ
2024	PM 10	1A2gviii	OTHER WOOD RESIDUE	0.087522801	t/TJ
2024	PM 10	1A2gviii	PLASTIC WASTE	0.000273222	t/TJ
2024	PM 10	1A2gviii	RECOVERED WOOD	0.001464993	t/TJ
2024	PM 10	1A2gviii	RECYCLED AND WASTE OILS	0.000635738	t/TJ
2024	PM 10	1A2gviii	RENEWABLE DIESEL	0.004463785	t/TJ
2024	PM 10	1A2gviii	SAWDUST	0.004002476	t/TJ
2024	PM 10	1A2gviii	SAWDUST AND CUTTER CHIPS	0.100145334	t/TJ
2024	PM 10	1A2gviii	SOD PEAT	0.025559661	t/TJ
2024	PM 10	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000073268	t/TJ
2024	PM 10	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.036198927	t/TJ
2024	PM 10	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.042704386	t/TJ
2024	PM 10	1A2gviii	WOOD RESIDUE CHIPS	0.018494185	t/TJ
2024	PM 10	1A2gviii	WOOD STUMP CHIPS	0.000107059	t/TJ
2024	PM 10	1A3ai(i)	KEROSENE (JET FUEL)	0.002902658	t/TJ
2024	PM 10	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2024	PM 10	1A3aii(i)	KEROSENE (JET FUEL)	0.003072508	t/TJ
2024	PM 10	1A3bi	DIESEL OIL (S=001%)	0.007039923	t/TJ
2024	PM 10	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000516016	t/TJ
2024	PM 10	1A3bi	NATURAL GAS	0.000789295	t/TJ
2024	PM 10	1A3bii	DIESEL OIL (S=001%)	0.015867114	t/TJ
2024	PM 10	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000415977	t/TJ
2024	PM 10	1A3biii	DIESEL OIL (S=001%)	0.002880728	t/TJ
2024	PM 10	1A3biii	NATURAL GAS	0.000360456	t/TJ
2024	PM 10	1A3biv	DIESEL OIL (S=001%)	0.035220323	t/TJ
2024	PM 10	1A3biv	MOTOR GASOLINE (S=0.001%)	0.006876409	t/TJ
2024	PM 10	1A3c	GASOIL (FOR NON-ROAD USE)	0.030276928	t/TJ
2024	PM 10	1A3dii	DIESEL OIL (S=001%)	0.097938018	t/TJ
2024	PM 10	1A3dii	GASOIL (FOR NON-ROAD USE)	0.029051494	t/TJ
2024	PM 10	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.035325957	t/TJ
2024	PM 10	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.012133022	t/TJ
2024	PM 10	1A3dii	MOTOR GASOLINE (S=0.001%)	0.094127357	t/TJ
2024	PM 10	1A4ai	BIO-FUEL OIL	0.003500000	t/TJ
2024	PM 10	1A4ai	FOREST WOODFUEL	0.016157867	t/TJ
2024	PM 10	1A4ai	GASOIL (FOR NON-ROAD USE)	0.002610188	t/TJ
2024	PM 10	1A4ai	HEAVY FUEL OIL (S<1%)	0.077400000	t/TJ
2024	PM 10	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.003503401	t/TJ
2024	PM 10	1A4ai	NAPHTHA	0.003125524	t/TJ
2024	PM 10	1A4ai	SOD PEAT	0.091393939	t/TJ
2024	PM 10	1A4aii	GASOIL (FOR NON-ROAD USE)	0.009647266	t/TJ

2024	PM 10	1A4aii	MOTOR GASOLINE (S=0.001%)	0.045158841	t/TJ
2024	PM 10	1A4bi	FOREST WOODFUEL	0.160751646	t/TJ
2024	PM 10	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.006300000	t/TJ
2024	PM 10	1A4bi	PARAFFIN	0.006300000	t/TJ
2024	PM 10	1A4bi	SOD PEAT	0.360000000	t/TJ
2024	PM 10	1A4bii	GASOIL (FOR NON-ROAD USE)	0.072957522	t/TJ
2024	PM 10	1A4bii	MOTOR GASOLINE (S=0.001%)	0.042456539	t/TJ
2024	PM 10	1A4ci	ANIMAL-BASED FUELS	0.249822064	t/TJ
2024	PM 10	1A4ci	CHIPS FROM ROUNDWOOD	0.031931785	t/TJ
2024	PM 10	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.052000000	t/TJ
2024	PM 10	1A4ci	FOREST RESIDUE CHIPS	0.052000000	t/TJ
2024	PM 10	1A4ci	FOREST WOODFUEL	0.016000000	t/TJ
2024	PM 10	1A4ci	GASOIL (FOR NON-ROAD USE)	0.003500000	t/TJ
2024	PM 10	1A4ci	HEAVY FUEL OIL (S<1%)	0.072429358	t/TJ
2024	PM 10	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.003500000	t/TJ
2024	PM 10	1A4ci	MILLED PEAT	0.000371563	t/TJ
2024	PM 10	1A4ci	OTHER NON-FOSSIL SOLID	0.011119582	t/TJ
2024	PM 10	1A4ci	RECOVERED WOOD	0.029925691	t/TJ
2024	PM 10	1A4ci	SOD PEAT	0.102231139	t/TJ
2024	PM 10	1A4ci	WOOD RESIDUE CHIPS	0.249822064	t/TJ
2024	PM 10	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010002042	t/TJ
2024	PM 10	1A4cii	MOTOR GASOLINE (S=0.001%)	0.129830816	t/TJ
2024	PM 10	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.032491284	t/TJ
2024	PM 10	1A5a	FOREST WOODFUEL	0.052000000	t/TJ
2024	PM 10	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2024	PM 10	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.008666355	t/TJ
2024	PM 10	1A5a	OTHER PETROLEUM PRODUCTS	0.003500000	t/TJ

TSP Implied emission factors in Finnish air pollutant inventory for 2024

2024	TSP	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000221404	t/TJ
2024	TSP	1A1a	ANIMAL-BASED FUELS	0.000034680	t/TJ
2024	TSP	1A1a	ANTHRACITE	0.001777742	t/TJ
2024	TSP	1A1a	ASPHALTENE	0.000228688	t/TJ
2024	TSP	1A1a	BARK	0.003227869	t/TJ
2024	TSP	1A1a	BIO PELLETS (NON-WOOD)	0.000080153	t/TJ
2024	TSP	1A1a	BIO PYROLYSIS OIL	0.000163934	t/TJ
2024	TSP	1A1a	BIO-FUEL OIL	0.001016117	t/TJ
2024	TSP	1A1a	BIOLOGICAL SLURRY	0.005033509	t/TJ
2024	TSP	1A1a	CHIPS FROM ROUNDWOOD	0.003234749	t/TJ
2024	TSP	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.004674788	t/TJ
2024	TSP	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.025599588	t/TJ
2024	TSP	1A1a	COAL (S=1.0%)	0.013958674	t/TJ
2024	TSP	1A1a	CUTTER CHIPS ETC.	0.004154971	t/TJ
2024	TSP	1A1a	DEINKING WASTE	0.000155176	t/TJ
2024	TSP	1A1a	DEMOLITION WOOD	0.001227436	t/TJ
2024	TSP	1A1a	DIESEL OIL (S=0.01%)	1.198983017	t/TJ
2024	TSP	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.001605240	t/TJ
2024	TSP	1A1a	FOREST RESIDUE CHIPS	0.193144665	t/TJ
2024	TSP	1A1a	FOREST RESIDUE CHIPS	0.004613699	t/TJ
2024	TSP	1A1a	GASOIL (FOR NON-ROAD USE)	0.003268300	t/TJ
2024	TSP	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000839398	t/TJ
2024	TSP	1A1a	HEAVY FUEL OIL (S<0,1%)	0.004815646	t/TJ
2024	TSP	1A1a	HEAVY FUEL OIL (S<0,5%)	0.004298572	t/TJ
2024	TSP	1A1a	HEAVY FUEL OIL (S<1%)	0.016302986	t/TJ
2024	TSP	1A1a	IMPREGNATED WOOD	0.002480376	t/TJ

2024	TSP	1A1a	INDUSTRIAL WASTE	0.000764463	t/TJ
2024	TSP	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.008374689	t/TJ
2024	TSP	1A1a	MILLED PEAT	0.001819396	t/TJ
2024	TSP	1A1a	MOTOR GASOLINE (S=0.001%)	0.007000000	t/TJ
2024	TSP	1A1a	MUNICIPAL WASTE - unsorted	0.000366755	t/TJ
2024	TSP	1A1a	NAPHTHA	0.000612245	t/TJ
2024	TSP	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.002507526	t/TJ
2024	TSP	1A1a	OTHER FOSSIL SOLID	0.000385640	t/TJ
2024	TSP	1A1a	OTHER MEDIUM DISTILLATES	0.005243214	t/TJ
2024	TSP	1A1a	OTHER NON-FOSSIL SOLID	0.002496287	t/TJ
2024	TSP	1A1a	OTHER NON-FOSSIL SOLID	0.001813576	t/TJ
2024	TSP	1A1a	OTHER WASTE	0.000125892	t/TJ
2024	TSP	1A1a	OTHER WOOD RESIDUE	0.000602103	t/TJ
2024	TSP	1A1a	PAPER	0.000066147	t/TJ
2024	TSP	1A1a	PLASTIC WASTE	0.010000000	t/TJ
2024	TSP	1A1a	RECOVERED FUEL (REF 2)	0.200000000	t/TJ
2024	TSP	1A1a	RECOVERED WOOD	0.001603163	t/TJ
2024	TSP	1A1a	RECYCLED AND WASTE OILS	0.000314123	t/TJ
2024	TSP	1A1a	RENEWABLE DIESEL	0.013695652	t/TJ
2024	TSP	1A1a	SAWDUST	0.001718980	t/TJ
2024	TSP	1A1a	SOD PEAT	0.187642032	t/TJ
2024	TSP	1A1a	SOLID RECOVERED FUEL (SRF)	0.002912084	t/TJ
2024	TSP	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005116451	t/TJ
2024	TSP	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.019135123	t/TJ
2024	TSP	1A1a	WOOD RESIDUE CHIPS	0.018047186	t/TJ
2024	TSP	1A1a	WOOD STUMP CHIPS	0.024483002	t/TJ
2024	TSP	1A1b	COKE (S=1.0%)	0.150000000	t/TJ
2024	TSP	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.007000000	t/TJ
2024	TSP	1A1b	PETROLEUM COKE	0.019702381	t/TJ
2024	TSP	1A1b	SULPHUR CONCENTRATE	0.010000000	t/TJ
2024	TSP	1A2a	COKE (S=1.0%)	0.027928058	t/TJ
2024	TSP	1A2a	DIESEL OIL (S=0.001%)	0.007000000	t/TJ
2024	TSP	1A2a	GASOIL (FOR NON-ROAD USE)	0.014062215	t/TJ
2024	TSP	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.005193141	t/TJ
2024	TSP	1A2a	OTHER FOSSIL SOLID	0.052586788	t/TJ
2024	TSP	1A2a	WOOD RESIDUE CHIPS	0.105263158	t/TJ
2024	TSP	1A2b	COAL (S=1.0%)	0.149999883	t/TJ
2024	TSP	1A2b	COKE (S=1.0%)	0.019554004	t/TJ
2024	TSP	1A2b	DIESEL OIL (S=0.001%)	0.007000000	t/TJ
2024	TSP	1A2b	GASOIL (FOR NON-ROAD USE)	0.007000000	t/TJ
2024	TSP	1A2b	HEAVY FUEL OIL (S<1%)	0.030906274	t/TJ
2024	TSP	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.001088600	t/TJ
2024	TSP	1A2b	NAPHTHA	0.012804097	t/TJ
2024	TSP	1A2b	OTHER HEAVY DISTILLATES	0.009777000	t/TJ
2024	TSP	1A2c	DIESEL OIL (S=0.001%)	0.007000000	t/TJ
2024	TSP	1A2c	GASOIL (FOR NON-ROAD USE)	0.013697531	t/TJ
2024	TSP	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.008299318	t/TJ
2024	TSP	1A2c	HEAVY FUEL OIL (S<0,1%)	0.033843941	t/TJ
2024	TSP	1A2c	HEAVY FUEL OIL (S<1%)	0.040635044	t/TJ
2024	TSP	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.004949020	t/TJ
2024	TSP	1A2c	METHANOL	0.025000000	t/TJ
2024	TSP	1A2c	NAPHTHA	0.007000000	t/TJ
2024	TSP	1A2c	OTHER FUEL	0.010000000	t/TJ
2024	TSP	1A2c	OTHER MEDIUM DISTILLATES	0.001359804	t/TJ
2024	TSP	1A2c	OTHER NON-FOSSIL SOLID	0.010418608	t/TJ
2024	TSP	1A2c	OTHER WASTE	0.010000000	t/TJ

2024	TSP	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.014569332	t/TJ
2024	TSP	1A2c	RENEWABLE DIESEL	0.007000015	t/TJ
2024	TSP	1A2c	SULPHUR CONCENTRATE	0.010000005	t/TJ
2024	TSP	1A2c	TALL PITCH AND OIL	0.039916467	t/TJ
2024	TSP	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.060056034	t/TJ
2024	TSP	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.004120317	t/TJ
2024	TSP	1A2d	ANIMAL-BASED FUELS	0.001540631	t/TJ
2024	TSP	1A2d	BARK	0.004061640	t/TJ
2024	TSP	1A2d	BIO-FUEL OIL	0.006447117	t/TJ
2024	TSP	1A2d	BIOLOGICAL SLURRY	0.000248156	t/TJ
2024	TSP	1A2d	BLACK LIQUOR	0.006922438	t/TJ
2024	TSP	1A2d	CHIPS FROM ROUNDWOOD	0.014851898	t/TJ
2024	TSP	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.001201216	t/TJ
2024	TSP	1A2d	COAL (S=1.0%)	0.002111984	t/TJ
2024	TSP	1A2d	CUTTER CHIPS ETC.	0.005314484	t/TJ
2024	TSP	1A2d	DEMOLITION WOOD	0.001540630	t/TJ
2024	TSP	1A2d	FOREST RESIDUE CHIPS	0.003266397	t/TJ
2024	TSP	1A2d	GASOIL (FOR NON-ROAD USE)	0.004848664	t/TJ
2024	TSP	1A2d	HEAVY FUEL OIL (S<0,1%)	0.004854268	t/TJ
2024	TSP	1A2d	HEAVY FUEL OIL (S<0,5%)	0.014084507	t/TJ
2024	TSP	1A2d	HEAVY FUEL OIL (S<1%)	0.012707639	t/TJ
2024	TSP	1A2d	HYDROGEN	0.003330749	t/TJ
2024	TSP	1A2d	IMPREGNATED WOOD	0.001540631	t/TJ
2024	TSP	1A2d	INDUSTRIAL WASTE	0.025616349	t/TJ
2024	TSP	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.004676903	t/TJ
2024	TSP	1A2d	LIQUID GAS	0.000000168	t/TJ
2024	TSP	1A2d	METHANOL	0.008292085	t/TJ
2024	TSP	1A2d	MILLED PEAT	0.004952409	t/TJ
2024	TSP	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.009085052	t/TJ
2024	TSP	1A2d	OTHER FUEL	0.009754739	t/TJ
2024	TSP	1A2d	PAPER	0.006267925	t/TJ
2024	TSP	1A2d	PLASTIC WASTE	0.002179738	t/TJ
2024	TSP	1A2d	RECOVERED WOOD	0.002529554	t/TJ
2024	TSP	1A2d	RECYCLED AND WASTE OILS	0.001540631	t/TJ
2024	TSP	1A2d	SAWDUST	0.005261453	t/TJ
2024	TSP	1A2d	SOD PEAT	0.071795814	t/TJ
2024	TSP	1A2d	SOLID RECOVERED FUEL (SRF)	0.005893884	t/TJ
2024	TSP	1A2d	TALL PITCH AND OIL	0.005044050	t/TJ
2024	TSP	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001661618	t/TJ
2024	TSP	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.007580516	t/TJ
2024	TSP	1A2d	WOOD RESIDUE CHIPS	0.008612424	t/TJ
2024	TSP	1A2d	WOOD STUMP CHIPS	0.001540631	t/TJ
2024	TSP	1A2e	ANIMAL FATS AND OILS	0.003755955	t/TJ
2024	TSP	1A2e	ANIMAL-BASED FUELS	0.200000000	t/TJ
2024	TSP	1A2e	BARK	0.001067150	t/TJ
2024	TSP	1A2e	BIO-FUEL OIL	0.040000000	t/TJ
2024	TSP	1A2e	CHIPS FROM ROUNDWOOD	0.009843388	t/TJ
2024	TSP	1A2e	COKE (S=1.0%)	0.002663175	t/TJ
2024	TSP	1A2e	FOREST RESIDUE CHIPS	0.024831861	t/TJ
2024	TSP	1A2e	GASOIL (FOR NON-ROAD USE)	0.005620731	t/TJ
2024	TSP	1A2e	HEAVY FUEL OIL (S<1%)	0.047069374	t/TJ
2024	TSP	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.024885074	t/TJ
2024	TSP	1A2e	MILLED PEAT	0.015738561	t/TJ
2024	TSP	1A2e	MOTOR GASOLINE (S=0.001%)	0.011832215	t/TJ
2024	TSP	1A2e	NAPHTHA	0.007000000	t/TJ
2024	TSP	1A2e	OTHER MEDIUM DISTILLATES	0.007000000	t/TJ

2024	TSP	1A2e	OTHER NON-FOSSIL SOLID	0.052998639	t/TJ
2024	TSP	1A2e	OTHER NON-FOSSIL SOLID	0.001386931	t/TJ
2024	TSP	1A2e	PEAT PELLETS AND BRIQUETTES	0.019924300	t/TJ
2024	TSP	1A2e	RECOVERED WOOD	0.001067152	t/TJ
2024	TSP	1A2e	SAWDUST	0.010105014	t/TJ
2024	TSP	1A2e	SOD PEAT	0.029377294	t/TJ
2024	TSP	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.073624322	t/TJ
2024	TSP	1A2f	CHIPS FROM ROUNDWOOD	0.155257586	t/TJ
2024	TSP	1A2f	COAL (S=1.0%)	0.011667098	t/TJ
2024	TSP	1A2f	DIESEL OIL (S=001%)	0.007000001	t/TJ
2024	TSP	1A2f	FOREST RESIDUE CHIPS	0.155257586	t/TJ
2024	TSP	1A2f	GASOIL (FOR NON-ROAD USE)	0.007622442	t/TJ
2024	TSP	1A2f	HEAVY FUEL OIL (S<0,1%)	0.095475841	t/TJ
2024	TSP	1A2f	HEAVY FUEL OIL (S<1%)	0.072363604	t/TJ
2024	TSP	1A2f	INDUSTRIAL WASTE	0.017222343	t/TJ
2024	TSP	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.007648480	t/TJ
2024	TSP	1A2f	MOTOR GASOLINE (S=0.001%)	0.009953969	t/TJ
2024	TSP	1A2f	OTHER FOSSIL LIQUID	0.003697971	t/TJ
2024	TSP	1A2f	OTHER FUEL	0.005337419	t/TJ
2024	TSP	1A2f	OTHER HEAVY DISTILLATES	0.012617485	t/TJ
2024	TSP	1A2f	PETROLEUM COKE	0.014587891	t/TJ
2024	TSP	1A2f	PLASTIC WASTE	0.001602546	t/TJ
2024	TSP	1A2f	RECOVERED WOOD	0.007762879	t/TJ
2024	TSP	1A2f	RECYCLED AND WASTE OILS	0.000416195	t/TJ
2024	TSP	1A2f	RUBBER WASTE	0.012301673	t/TJ
2024	TSP	1A2f	SAWDUST	0.000169087	t/TJ
2024	TSP	1A2f	SOLID RECOVERED FUEL (SRF)	0.006140045	t/TJ
2024	TSP	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.003381750	t/TJ
2024	TSP	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.011981453	t/TJ
2024	TSP	1A2gvii	LIQUID GAS	0.004112771	t/TJ
2024	TSP	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.004348500	t/TJ
2024	TSP	1A2gviii	ANIMAL-BASED FUELS	0.000113081	t/TJ
2024	TSP	1A2gviii	BARK	0.029256774	t/TJ
2024	TSP	1A2gviii	BIO-FUEL OIL	0.003896427	t/TJ
2024	TSP	1A2gviii	BIOLOGICAL SLURRY	0.000397084	t/TJ
2024	TSP	1A2gviii	CHIPS FROM ROUNDWOOD	0.002738600	t/TJ
2024	TSP	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.005251305	t/TJ
2024	TSP	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.154267260	t/TJ
2024	TSP	1A2gviii	CUTTER CHIPS ETC.	0.023123271	t/TJ
2024	TSP	1A2gviii	DECIDUOUS TREE	0.200000000	t/TJ
2024	TSP	1A2gviii	DEMOLITION WOOD	0.000048860	t/TJ
2024	TSP	1A2gviii	DIESEL OIL (S=001%)	0.005487025	t/TJ
2024	TSP	1A2gviii	FOREST RESIDUE CHIPS	0.200000000	t/TJ
2024	TSP	1A2gviii	FOREST RESIDUE CHIPS	0.014598617	t/TJ
2024	TSP	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.009863872	t/TJ
2024	TSP	1A2gviii	HAZARDOUS WASTE	0.000385412	t/TJ
2024	TSP	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.037812500	t/TJ
2024	TSP	1A2gviii	HEAVY FUEL OIL (S<1%)	0.068684453	t/TJ
2024	TSP	1A2gviii	IMPREGNATED WOOD	0.000546847	t/TJ
2024	TSP	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.005138845	t/TJ
2024	TSP	1A2gviii	MANURE	0.000113081	t/TJ
2024	TSP	1A2gviii	MILLED PEAT	0.000423616	t/TJ
2024	TSP	1A2gviii	MUNICIPAL WASTE - unsorted	0.000183314	t/TJ
2024	TSP	1A2gviii	NAPHTHA	0.016927652	t/TJ
2024	TSP	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000454599	t/TJ
2024	TSP	1A2gviii	OTHER HEAVY DISTILLATES	0.037807340	t/TJ

2024	TSP	1A2gviii	OTHER NON-FOSSIL SOLID	0.003354733	t/TJ
2024	TSP	1A2gviii	OTHER NON-FOSSIL SOLID	0.000143484	t/TJ
2024	TSP	1A2gviii	OTHER WOOD RESIDUE	0.048115996	t/TJ
2024	TSP	1A2gviii	PLASTIC WASTE	0.000324594	t/TJ
2024	TSP	1A2gviii	RECOVERED WOOD	0.002103516	t/TJ
2024	TSP	1A2gviii	RECYCLED AND WASTE OILS	0.000685002	t/TJ
2024	TSP	1A2gviii	RENEWABLE DIESEL	0.008927567	t/TJ
2024	TSP	1A2gviii	SAWDUST	0.002207397	t/TJ
2024	TSP	1A2gviii	SAWDUST AND CUTTER CHIPS	0.136663914	t/TJ
2024	TSP	1A2gviii	SOD PEAT	0.082566705	t/TJ
2024	TSP	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000281800	t/TJ
2024	TSP	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.053944439	t/TJ
2024	TSP	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.164247637	t/TJ
2024	TSP	1A2gviii	WOOD RESIDUE CHIPS	0.049651238	t/TJ
2024	TSP	1A2gviii	WOOD STUMP CHIPS	0.000411765	t/TJ
2024	TSP	1A3ai(i)	KEROSENE (JET FUEL)	0.002902658	t/TJ
2024	TSP	1A3aii(i)	AVIATION GASOLINE	0.008100000	t/TJ
2024	TSP	1A3aii(i)	KEROSENE (JET FUEL)	0.003072508	t/TJ
2024	TSP	1A3bi	DIESEL OIL (S=001%)	0.007039923	t/TJ
2024	TSP	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000516016	t/TJ
2024	TSP	1A3bi	NATURAL GAS	0.000789295	t/TJ
2024	TSP	1A3bii	DIESEL OIL (S=001%)	0.015867114	t/TJ
2024	TSP	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000415977	t/TJ
2024	TSP	1A3biii	DIESEL OIL (S=001%)	0.002880728	t/TJ
2024	TSP	1A3biii	NATURAL GAS	0.000360456	t/TJ
2024	TSP	1A3biv	DIESEL OIL (S=001%)	0.035220323	t/TJ
2024	TSP	1A3biv	MOTOR GASOLINE (S=0.001%)	0.006876409	t/TJ
2024	TSP	1A3c	GASOIL (FOR NON-ROAD USE)	0.031958979	t/TJ
2024	TSP	1A3dii	DIESEL OIL (S=001%)	0.097938018	t/TJ
2024	TSP	1A3dii	GASOIL (FOR NON-ROAD USE)	0.029051494	t/TJ
2024	TSP	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.035325957	t/TJ
2024	TSP	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.012133022	t/TJ
2024	TSP	1A3dii	MOTOR GASOLINE (S=0.001%)	0.094127357	t/TJ
2024	TSP	1A4ai	BIO-FUEL OIL	0.007000000	t/TJ
2024	TSP	1A4ai	FOREST WOODFUEL	0.016831111	t/TJ
2024	TSP	1A4ai	GASOIL (FOR NON-ROAD USE)	0.005220377	t/TJ
2024	TSP	1A4ai	HEAVY FUEL OIL (S<1%)	0.090000000	t/TJ
2024	TSP	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.007006801	t/TJ
2024	TSP	1A4ai	NAPHTHA	0.006251085	t/TJ
2024	TSP	1A4ai	SOD PEAT	0.351515152	t/TJ
2024	TSP	1A4aii	GASOIL (FOR NON-ROAD USE)	0.009647266	t/TJ
2024	TSP	1A4aii	MOTOR GASOLINE (S=0.001%)	0.045158841	t/TJ
2024	TSP	1A4bi	FOREST WOODFUEL	0.167449632	t/TJ
2024	TSP	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.007000000	t/TJ
2024	TSP	1A4bi	PARAFFIN	0.007000000	t/TJ
2024	TSP	1A4bi	SOD PEAT	0.400000000	t/TJ
2024	TSP	1A4bii	GASOIL (FOR NON-ROAD USE)	0.072957522	t/TJ
2024	TSP	1A4bii	MOTOR GASOLINE (S=0.001%)	0.042456539	t/TJ
2024	TSP	1A4ci	ANIMAL-BASED FUELS	0.048042705	t/TJ
2024	TSP	1A4ci	CHIPS FROM ROUNDWOOD	0.017544937	t/TJ
2024	TSP	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.200000000	t/TJ
2024	TSP	1A4ci	FOREST RESIDUE CHIPS	0.117136345	t/TJ
2024	TSP	1A4ci	FOREST WOODFUEL	0.016666667	t/TJ
2024	TSP	1A4ci	GASOIL (FOR NON-ROAD USE)	0.007000000	t/TJ
2024	TSP	1A4ci	HEAVY FUEL OIL (S<1%)	0.084220183	t/TJ
2024	TSP	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.007000000	t/TJ

2024	TSP	1A4ci	MILLED PEAT	0.000438625	t/TJ
2024	TSP	1A4ci	OTHER NON-FOSSIL SOLID	0.013126523	t/TJ
2024	TSP	1A4ci	RECOVERED WOOD	0.035326981	t/TJ
2024	TSP	1A4ci	SOD PEAT	0.393196690	t/TJ
2024	TSP	1A4ci	WOOD RESIDUE CHIPS	0.960854093	t/TJ
2024	TSP	1A4cii	GASOIL (FOR NON-ROAD USE)	0.010002042	t/TJ
2024	TSP	1A4cii	MOTOR GASOLINE (S=0.001%)	0.129830816	t/TJ
2024	TSP	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.032491284	t/TJ
2024	TSP	1A5a	FOREST WOODFUEL	0.200000000	t/TJ
2024	TSP	1A5a	KEROSENE (JET FUEL)	0.009917755	t/TJ
2024	TSP	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.012166355	t/TJ
2024	TSP	1A5a	OTHER PETROLEUM PRODUCTS	0.007000000	t/TJ

BC Implied emission factors in Finnish air pollutant inventory for 2024

2024	BC	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000002557	t/TJ
2024	BC	1A1a	ANIMAL-BASED FUELS	0.000024969	t/TJ
2024	BC	1A1a	ASPHALTENE	0.000042902	t/TJ
2024	BC	1A1a	BARK	0.000019231	t/TJ
2024	BC	1A1a	BIO PELLETS (NON-WOOD)	0.000000689	t/TJ
2024	BC	1A1a	BIO PYROLYSIS OIL	0.000005902	t/TJ
2024	BC	1A1a	BIO-FUEL OIL	0.000036580	t/TJ
2024	BC	1A1a	BIOLOGICAL SLURRY	0.000043299	t/TJ
2024	BC	1A1a	CHIPS FROM ROUNDWOOD	0.000021543	t/TJ
2024	BC	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000009539	t/TJ
2024	BC	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000018206	t/TJ
2024	BC	1A1a	COAL (S=1.0%)	0.000076756	t/TJ
2024	BC	1A1a	CUTTER CHIPS ETC.	0.000047288	t/TJ
2024	BC	1A1a	DEMOLITION WOOD	0.000014177	t/TJ
2024	BC	1A1a	DIESEL OIL (S=001%)	0.048199117	t/TJ
2024	BC	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000407892	t/TJ
2024	BC	1A1a	FOREST RESIDUE CHIPS	0.000336230	t/TJ
2024	BC	1A1a	FOREST RESIDUE CHIPS	0.000010263	t/TJ
2024	BC	1A1a	GASOIL (FOR NON-ROAD USE)	0.000133350	t/TJ
2024	BC	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000313981	t/TJ
2024	BC	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000809734	t/TJ
2024	BC	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000318915	t/TJ
2024	BC	1A1a	HEAVY FUEL OIL (S<1%)	0.003534532	t/TJ
2024	BC	1A1a	IMPREGNATED WOOD	0.000028648	t/TJ
2024	BC	1A1a	INDUSTRIAL WASTE	0.000010630	t/TJ
2024	BC	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.000311954	t/TJ
2024	BC	1A1a	MILLED PEAT	0.000018396	t/TJ
2024	BC	1A1a	MOTOR GASOLINE (S=0.001%)	0.000027720	t/TJ
2024	BC	1A1a	MUNICIPAL WASTE - unsorted	0.000000307	t/TJ
2024	BC	1A1a	NAPHTHA	0.000002424	t/TJ
2024	BC	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000028962	t/TJ
2024	BC	1A1a	OTHER FOSSIL SOLID	0.000002121	t/TJ
2024	BC	1A1a	OTHER MEDIUM DISTILLATES	0.000188756	t/TJ
2024	BC	1A1a	OTHER NON-FOSSIL SOLID	0.000028832	t/TJ
2024	BC	1A1a	OTHER NON-FOSSIL SOLID	0.000020934	t/TJ
2024	BC	1A1a	OTHER WASTE	0.000010994	t/TJ
2024	BC	1A1a	OTHER WOOD RESIDUE	0.000006946	t/TJ
2024	BC	1A1a	PAPER	0.000000764	t/TJ
2024	BC	1A1a	PLASTIC WASTE	0.002400000	t/TJ
2024	BC	1A1a	RECOVERED FUEL (REF 2)	0.000200000	t/TJ
2024	BC	1A1a	RECOVERED WOOD	0.000010672	t/TJ

2024	BC	1A1a	RECYCLED AND WASTE OILS	0.000070634	t/TJ
2024	BC	1A1a	RENEWABLE DIESEL	0.000550565	t/TJ
2024	BC	1A1a	SAWDUST	0.000016703	t/TJ
2024	BC	1A1a	SOD PEAT	0.000321854	t/TJ
2024	BC	1A1a	SOLID RECOVERED FUEL (SRF)	0.000002912	t/TJ
2024	BC	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000041516	t/TJ
2024	BC	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000022730	t/TJ
2024	BC	1A1a	WOOD RESIDUE CHIPS	0.000024326	t/TJ
2024	BC	1A1a	WOOD STUMP CHIPS	0.000020838	t/TJ
2024	BC	1A1b	COKE (S=1.0%)	0.000150000	t/TJ
2024	BC	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000281400	t/TJ
2024	BC	1A1b	PETROLEUM COKE	0.000058844	t/TJ
2024	BC	1A2a	COKE (S=1.0%)	0.000039886	t/TJ
2024	BC	1A2a	DIESEL OIL (S=001%)	0.000281400	t/TJ
2024	BC	1A2a	GASOIL (FOR NON-ROAD USE)	0.000565301	t/TJ
2024	BC	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000236339	t/TJ
2024	BC	1A2a	OTHER FOSSIL SOLID	0.000184054	t/TJ
2024	BC	1A2a	WOOD RESIDUE CHIPS	0.000060789	t/TJ
2024	BC	1A2b	COAL (S=1.0%)	0.000055000	t/TJ
2024	BC	1A2b	COKE (S=1.0%)	0.000019554	t/TJ
2024	BC	1A2b	DIESEL OIL (S=001%)	0.000281400	t/TJ
2024	BC	1A2b	GASOIL (FOR NON-ROAD USE)	0.000281400	t/TJ
2024	BC	1A2b	HEAVY FUEL OIL (S<1%)	0.004674053	t/TJ
2024	BC	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000044361	t/TJ
2024	BC	1A2b	NAPHTHA	0.000050704	t/TJ
2024	BC	1A2b	OTHER HEAVY DISTILLATES	0.000306607	t/TJ
2024	BC	1A2c	DIESEL OIL (S=001%)	0.000281401	t/TJ
2024	BC	1A2c	GASOIL (FOR NON-ROAD USE)	0.000550641	t/TJ
2024	BC	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.001394285	t/TJ
2024	BC	1A2c	HEAVY FUEL OIL (S<0,1%)	0.005685774	t/TJ
2024	BC	1A2c	HEAVY FUEL OIL (S<1%)	0.003766691	t/TJ
2024	BC	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000198950	t/TJ
2024	BC	1A2c	METHANOL	0.000021000	t/TJ
2024	BC	1A2c	NAPHTHA	0.000027720	t/TJ
2024	BC	1A2c	OTHER FUEL	0.000105000	t/TJ
2024	BC	1A2c	OTHER MEDIUM DISTILLATES	0.000048953	t/TJ
2024	BC	1A2c	OTHER NON-FOSSIL SOLID	0.000120335	t/TJ
2024	BC	1A2c	OTHER WASTE	0.000873253	t/TJ
2024	BC	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.002447652	t/TJ
2024	BC	1A2c	RENEWABLE DIESEL	0.000281399	t/TJ
2024	BC	1A2c	TALL PITCH AND OIL	0.001917601	t/TJ
2024	BC	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000034682	t/TJ
2024	BC	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000047590	t/TJ
2024	BC	1A2d	ANIMAL-BASED FUELS	0.001109254	t/TJ
2024	BC	1A2d	BARK	0.000032326	t/TJ
2024	BC	1A2d	BIO-FUEL OIL	0.000232096	t/TJ
2024	BC	1A2d	BIOLOGICAL SLURRY	0.000002135	t/TJ
2024	BC	1A2d	CHIPS FROM ROUNDWOOD	0.000021123	t/TJ
2024	BC	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000000694	t/TJ
2024	BC	1A2d	COAL (S=1.0%)	0.000011616	t/TJ
2024	BC	1A2d	CUTTER CHIPS ETC.	0.000061382	t/TJ
2024	BC	1A2d	DEMOLITION WOOD	0.000017794	t/TJ
2024	BC	1A2d	FOREST RESIDUE CHIPS	0.000019606	t/TJ
2024	BC	1A2d	GASOIL (FOR NON-ROAD USE)	0.000194916	t/TJ
2024	BC	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000502354	t/TJ
2024	BC	1A2d	HEAVY FUEL OIL (S<0,5%)	0.002366197	t/TJ

2024	BC	1A2d	HEAVY FUEL OIL (S<1%)	0.001056394	t/TJ
2024	BC	1A2d	IMPREGNATED WOOD	0.000017794	t/TJ
2024	BC	1A2d	INDUSTRIAL WASTE	0.000184442	t/TJ
2024	BC	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000187838	t/TJ
2024	BC	1A2d	METHANOL	0.000008608	t/TJ
2024	BC	1A2d	MILLED PEAT	0.000057200	t/TJ
2024	BC	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000104932	t/TJ
2024	BC	1A2d	OTHER FUEL	0.000112667	t/TJ
2024	BC	1A2d	PAPER	0.000072395	t/TJ
2024	BC	1A2d	PLASTIC WASTE	0.000523137	t/TJ
2024	BC	1A2d	RECOVERED WOOD	0.000029216	t/TJ
2024	BC	1A2d	RECYCLED AND WASTE OILS	0.000346431	t/TJ
2024	BC	1A2d	SAWDUST	0.000059897	t/TJ
2024	BC	1A2d	SOD PEAT	0.000118463	t/TJ
2024	BC	1A2d	SOLID RECOVERED FUEL (SRF)	0.000005894	t/TJ
2024	BC	1A2d	TALL PITCH AND OIL	0.001645427	t/TJ
2024	BC	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000019192	t/TJ
2024	BC	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000004378	t/TJ
2024	BC	1A2d	WOOD RESIDUE CHIPS	0.000018900	t/TJ
2024	BC	1A2d	WOOD STUMP CHIPS	0.000017794	t/TJ
2024	BC	1A2e	ANIMAL FATS AND OILS	0.000473250	t/TJ
2024	BC	1A2e	ANIMAL-BASED FUELS	0.007200000	t/TJ
2024	BC	1A2e	BARK	0.000012326	t/TJ
2024	BC	1A2e	BIO-FUEL OIL	0.000252000	t/TJ
2024	BC	1A2e	CHIPS FROM ROUNDWOOD	0.000113691	t/TJ
2024	BC	1A2e	COKE (S=1.0%)	0.000002663	t/TJ
2024	BC	1A2e	FOREST RESIDUE CHIPS	0.000016752	t/TJ
2024	BC	1A2e	GASOIL (FOR NON-ROAD USE)	0.000225953	t/TJ
2024	BC	1A2e	HEAVY FUEL OIL (S<1%)	0.007898678	t/TJ
2024	BC	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.001000380	t/TJ
2024	BC	1A2e	MILLED PEAT	0.000033565	t/TJ
2024	BC	1A2e	MOTOR GASOLINE (S=0.001%)	0.000046856	t/TJ
2024	BC	1A2e	NAPHTHA	0.000027720	t/TJ
2024	BC	1A2e	OTHER MEDIUM DISTILLATES	0.000252000	t/TJ
2024	BC	1A2e	OTHER NON-FOSSIL SOLID	0.000612134	t/TJ
2024	BC	1A2e	OTHER NON-FOSSIL SOLID	0.000016019	t/TJ
2024	BC	1A2e	PEAT PELLETS AND BRIQUETTES	0.000051139	t/TJ
2024	BC	1A2e	RECOVERED WOOD	0.000012326	t/TJ
2024	BC	1A2e	SAWDUST	0.000114545	t/TJ
2024	BC	1A2e	SOD PEAT	0.000048473	t/TJ
2024	BC	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000073557	t/TJ
2024	BC	1A2f	CHIPS FROM ROUNDWOOD	0.000089661	t/TJ
2024	BC	1A2f	COAL (S=1.0%)	0.000003370	t/TJ
2024	BC	1A2f	DIESEL OIL (S=0.001%)	0.000281400	t/TJ
2024	BC	1A2f	FOREST RESIDUE CHIPS	0.000089661	t/TJ
2024	BC	1A2f	GASOIL (FOR NON-ROAD USE)	0.000306422	t/TJ
2024	BC	1A2f	HEAVY FUEL OIL (S<0,1%)	0.016039941	t/TJ
2024	BC	1A2f	HEAVY FUEL OIL (S<1%)	0.011683082	t/TJ
2024	BC	1A2f	INDUSTRIAL WASTE	0.000103334	t/TJ
2024	BC	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000307468	t/TJ
2024	BC	1A2f	MOTOR GASOLINE (S=0.001%)	0.000039418	t/TJ
2024	BC	1A2f	OTHER FOSSIL LIQUID	0.000693739	t/TJ
2024	BC	1A2f	OTHER FUEL	0.000061647	t/TJ
2024	BC	1A2f	OTHER HEAVY DISTILLATES	0.000395685	t/TJ
2024	BC	1A2f	PETROLEUM COKE	0.000083071	t/TJ
2024	BC	1A2f	PLASTIC WASTE	0.000384611	t/TJ

2024	BC	1A2f	RECOVERED WOOD	0.000089661	t/TJ
2024	BC	1A2f	RECYCLED AND WASTE OILS	0.000054790	t/TJ
2024	BC	1A2f	RUBBER WASTE	0.002925953	t/TJ
2024	BC	1A2f	SAWDUST	0.000001953	t/TJ
2024	BC	1A2f	SOLID RECOVERED FUEL (SRF)	0.000006140	t/TJ
2024	BC	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000001953	t/TJ
2024	BC	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.007337500	t/TJ
2024	BC	1A2gvii	LIQUID GAS	0.000205639	t/TJ
2024	BC	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000217425	t/TJ
2024	BC	1A2gviii	ANIMAL-BASED FUELS	0.000081418	t/TJ
2024	BC	1A2gviii	BARK	0.000500109	t/TJ
2024	BC	1A2gviii	BIO-FUEL OIL	0.000336651	t/TJ
2024	BC	1A2gviii	BIOLOGICAL SLURRY	0.000003416	t/TJ
2024	BC	1A2gviii	CHIPS FROM ROUNDWOOD	0.000006114	t/TJ
2024	BC	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000003033	t/TJ
2024	BC	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.000089089	t/TJ
2024	BC	1A2gviii	CUTTER CHIPS ETC.	0.000123344	t/TJ
2024	BC	1A2gviii	DECIDUOUS TREE	0.000115500	t/TJ
2024	BC	1A2gviii	DEMOLITION WOOD	0.000000564	t/TJ
2024	BC	1A2gviii	DIESEL OIL (S=001%)	0.000220578	t/TJ
2024	BC	1A2gviii	FOREST RESIDUE CHIPS	0.000330000	t/TJ
2024	BC	1A2gviii	FOREST RESIDUE CHIPS	0.000011632	t/TJ
2024	BC	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.000530057	t/TJ
2024	BC	1A2gviii	HAZARDOUS WASTE	0.000023382	t/TJ
2024	BC	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.006352500	t/TJ
2024	BC	1A2gviii	HEAVY FUEL OIL (S<1%)	0.011550951	t/TJ
2024	BC	1A2gviii	IMPREGNATED WOOD	0.000006316	t/TJ
2024	BC	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.000206582	t/TJ
2024	BC	1A2gviii	MANURE	0.000081418	t/TJ
2024	BC	1A2gviii	MILLED PEAT	0.000002249	t/TJ
2024	BC	1A2gviii	MUNICIPAL WASTE - unsorted	0.000000162	t/TJ
2024	BC	1A2gviii	NAPHTHA	0.000067033	t/TJ
2024	BC	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000005251	t/TJ
2024	BC	1A2gviii	OTHER HEAVY DISTILLATES	0.002228740	t/TJ
2024	BC	1A2gviii	OTHER NON-FOSSIL SOLID	0.000001657	t/TJ
2024	BC	1A2gviii	OTHER NON-FOSSIL SOLID	0.000038747	t/TJ
2024	BC	1A2gviii	OTHER WOOD RESIDUE	0.000555452	t/TJ
2024	BC	1A2gviii	PLASTIC WASTE	0.000077343	t/TJ
2024	BC	1A2gviii	RECOVERED WOOD	0.000018003	t/TJ
2024	BC	1A2gviii	RECYCLED AND WASTE OILS	0.000154031	t/TJ
2024	BC	1A2gviii	RENEWABLE DIESEL	0.000358888	t/TJ
2024	BC	1A2gviii	SAWDUST	0.000025411	t/TJ
2024	BC	1A2gviii	SAWDUST AND CUTTER CHIPS	0.002662318	t/TJ
2024	BC	1A2gviii	SOD PEAT	0.000210358	t/TJ
2024	BC	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000000282	t/TJ
2024	BC	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000420216	t/TJ
2024	BC	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000258216	t/TJ
2024	BC	1A2gviii	WOOD RESIDUE CHIPS	0.000127904	t/TJ
2024	BC	1A2gviii	WOOD STUMP CHIPS	0.000000238	t/TJ
2024	BC	1A3ai(i)	KEROSENE (JET FUEL)	0.001393276	t/TJ
2024	BC	1A3aii(i)	AVIATION GASOLINE	0.003888000	t/TJ
2024	BC	1A3aii(i)	KEROSENE (JET FUEL)	0.001474804	t/TJ
2024	BC	1A3bi	DIESEL OIL (S=001%)	0.004704721	t/TJ
2024	BC	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000141261	t/TJ
2024	BC	1A3bi	NATURAL GAS	0.000122121	t/TJ
2024	BC	1A3bii	DIESEL OIL (S=001%)	0.009985508	t/TJ

2024	BC	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000098340	t/TJ
2024	BC	1A3biii	DIESEL OIL (S=001%)	0.001784091	t/TJ
2024	BC	1A3biii	NATURAL GAS	0.000037449	t/TJ
2024	BC	1A3biv	DIESEL OIL (S=001%)	0.021594178	t/TJ
2024	BC	1A3biv	MOTOR GASOLINE (S=0.001%)	0.001394133	t/TJ
2024	BC	1A3c	GASOIL (FOR NON-ROAD USE)	0.018723336	t/TJ
2024	BC	1A3dii	DIESEL OIL (S=001%)	0.053865910	t/TJ
2024	BC	1A3dii	GASOIL (FOR NON-ROAD USE)	0.009005963	t/TJ
2024	BC	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.004239115	t/TJ
2024	BC	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.000243639	t/TJ
2024	BC	1A3dii	MOTOR GASOLINE (S=0.001%)	0.004706368	t/TJ
2024	BC	1A4ai	BIO-FUEL OIL	0.000252001	t/TJ
2024	BC	1A4ai	FOREST WOODFUEL	0.000503700	t/TJ
2024	BC	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000209859	t/TJ
2024	BC	1A4ai	HEAVY FUEL OIL (S<1%)	0.015120000	t/TJ
2024	BC	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000281370	t/TJ
2024	BC	1A4ai	NAPHTHA	0.000024754	t/TJ
2024	BC	1A4ai	SOD PEAT	0.000580000	t/TJ
2024	BC	1A4aii	GASOIL (FOR NON-ROAD USE)	0.003955379	t/TJ
2024	BC	1A4aii	MOTOR GASOLINE (S=0.001%)	0.002257942	t/TJ
2024	BC	1A4bi	FOREST WOODFUEL	0.045636777	t/TJ
2024	BC	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.001641500	t/TJ
2024	BC	1A4bi	PARAFFIN	0.003528000	t/TJ
2024	BC	1A4bi	SOD PEAT	0.010560000	t/TJ
2024	BC	1A4bii	GASOIL (FOR NON-ROAD USE)	0.029912584	t/TJ
2024	BC	1A4bii	MOTOR GASOLINE (S=0.001%)	0.002122827	t/TJ
2024	BC	1A4ci	ANIMAL-BASED FUELS	0.034590747	t/TJ
2024	BC	1A4ci	CHIPS FROM ROUNDWOOD	0.000202644	t/TJ
2024	BC	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.000115500	t/TJ
2024	BC	1A4ci	FOREST RESIDUE CHIPS	0.000115500	t/TJ
2024	BC	1A4ci	FOREST WOODFUEL	0.000500000	t/TJ
2024	BC	1A4ci	GASOIL (FOR NON-ROAD USE)	0.000281400	t/TJ
2024	BC	1A4ci	HEAVY FUEL OIL (S<1%)	0.014148991	t/TJ
2024	BC	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000281400	t/TJ
2024	BC	1A4ci	MILLED PEAT	0.000005066	t/TJ
2024	BC	1A4ci	OTHER NON-FOSSIL SOLID	0.000151611	t/TJ
2024	BC	1A4ci	RECOVERED WOOD	0.000408027	t/TJ
2024	BC	1A4ci	SOD PEAT	0.000648775	t/TJ
2024	BC	1A4ci	WOOD RESIDUE CHIPS	0.000554893	t/TJ
2024	BC	1A4cii	GASOIL (FOR NON-ROAD USE)	0.005756859	t/TJ
2024	BC	1A4cii	MOTOR GASOLINE (S=0.001%)	0.006491541	t/TJ
2024	BC	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.010072298	t/TJ
2024	BC	1A5a	FOREST WOODFUEL	0.002800000	t/TJ
2024	BC	1A5a	KEROSENE (JET FUEL)	0.004760522	t/TJ
2024	BC	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.001896512	t/TJ
2024	BC	1A5a	OTHER PETROLEUM PRODUCTS	0.000047040	t/TJ

CO Implied emission factors in Finnish air pollutant inventory for 2024

2024	CO	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.134192501	t/TJ
2024	CO	1A1a	ANIMAL-BASED FUELS	0.013421338	t/TJ
2024	CO	1A1a	ASPHALTENE	0.003062427	t/TJ
2024	CO	1A1a	BARK	0.076730701	t/TJ
2024	CO	1A1a	BIO PELLETS (NON-WOOD)	0.150000000	t/TJ
2024	CO	1A1a	BIO PYROLYSIS OIL	0.020000000	t/TJ
2024	CO	1A1a	BIO-FUEL OIL	0.020000000	t/TJ

2024	CO	1A1a	BIOLOGICAL SLURRY	0.150000000	t/TJ
2024	CO	1A1a	BLAST FURNACE GAS	0.019999993	t/TJ
2024	CO	1A1a	CHIPS FROM ROUNDWOOD	0.116654805	t/TJ
2024	CO	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.163537999	t/TJ
2024	CO	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.273513413	t/TJ
2024	CO	1A1a	COAL (S=1.0%)	0.007735402	t/TJ
2024	CO	1A1a	COKE OVEN GAS	0.020000000	t/TJ
2024	CO	1A1a	CUTTER CHIPS ETC.	0.295216567	t/TJ
2024	CO	1A1a	DEINKING WASTE	0.030492292	t/TJ
2024	CO	1A1a	DEMOLITION WOOD	0.025460146	t/TJ
2024	CO	1A1a	DIESEL OIL (S=001%)	0.019565514	t/TJ
2024	CO	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.500000000	t/TJ
2024	CO	1A1a	FOREST RESIDUE CHIPS	0.381586571	t/TJ
2024	CO	1A1a	FOREST RESIDUE CHIPS	0.081329469	t/TJ
2024	CO	1A1a	GASOIL (FOR NON-ROAD USE)	0.023240188	t/TJ
2024	CO	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000547185	t/TJ
2024	CO	1A1a	HEAVY FUEL OIL (S<0,1%)	0.019819094	t/TJ
2024	CO	1A1a	HEAVY FUEL OIL (S<0,5%)	0.019955637	t/TJ
2024	CO	1A1a	HEAVY FUEL OIL (S<1%)	0.026291124	t/TJ
2024	CO	1A1a	HYDROGEN	0.020006792	t/TJ
2024	CO	1A1a	IMPREGNATED WOOD	0.007440520	t/TJ
2024	CO	1A1a	INDUSTRIAL WASTE	0.006211656	t/TJ
2024	CO	1A1a	LANDFILL GAS	0.017552929	t/TJ
2024	CO	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.022604706	t/TJ
2024	CO	1A1a	LIQUEFIED NATURAL GAS (LNG)	0.023715308	t/TJ
2024	CO	1A1a	LIQUID GAS	0.029529505	t/TJ
2024	CO	1A1a	MILLED PEAT	0.042712907	t/TJ
2024	CO	1A1a	MOTOR GASOLINE (S=0.001%)	0.020000000	t/TJ
2024	CO	1A1a	MUNICIPAL WASTE - unsorted	0.007932040	t/TJ
2024	CO	1A1a	NAPHTHA	0.020000000	t/TJ
2024	CO	1A1a	NATURAL GAS	0.016565603	t/TJ
2024	CO	1A1a	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.101501703	t/TJ
2024	CO	1A1a	OTHER FOSSIL GAS	0.014512931	t/TJ
2024	CO	1A1a	OTHER FOSSIL SOLID	0.013964207	t/TJ
2024	CO	1A1a	OTHER MEDIUM DISTILLATES	0.000071383	t/TJ
2024	CO	1A1a	OTHER NON-FOSSIL GAS	0.163924465	t/TJ
2024	CO	1A1a	OTHER NON-FOSSIL SOLID	0.478222118	t/TJ
2024	CO	1A1a	OTHER NON-FOSSIL SOLID	0.499424294	t/TJ
2024	CO	1A1a	OTHER WASTE	0.000750104	t/TJ
2024	CO	1A1a	OTHER WOOD RESIDUE	0.115562272	t/TJ
2024	CO	1A1a	PAPER	0.359777558	t/TJ
2024	CO	1A1a	PLASTIC WASTE	0.140226242	t/TJ
2024	CO	1A1a	RECOVERED FUEL (REF 2)	0.400000000	t/TJ
2024	CO	1A1a	RECOVERED WOOD	0.033452592	t/TJ
2024	CO	1A1a	RECYCLED AND WASTE OILS	0.012622471	t/TJ
2024	CO	1A1a	REFINERY GASES	0.000180666	t/TJ
2024	CO	1A1a	RENEWABLE DIESEL	0.020000000	t/TJ
2024	CO	1A1a	SAWDUST	0.187901594	t/TJ
2024	CO	1A1a	SOD PEAT	0.134805570	t/TJ
2024	CO	1A1a	SOLID RECOVERED FUEL (SRF)	0.017082855	t/TJ
2024	CO	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.204425914	t/TJ
2024	CO	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.173816791	t/TJ
2024	CO	1A1a	WOOD RESIDUE CHIPS	0.231036300	t/TJ
2024	CO	1A1a	WOOD STUMP CHIPS	0.090661820	t/TJ
2024	CO	1A1b	COKE (S=1.0%)	1.500000000	t/TJ

2024	CO	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.002258065	t/TJ
2024	CO	1A1b	LIQUID GAS	0.002258065	t/TJ
2024	CO	1A1b	NATURAL GAS	0.016925494	t/TJ
2024	CO	1A1b	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2024	CO	1A1b	PETROLEUM COKE	0.030000000	t/TJ
2024	CO	1A1b	REFINERY GAS	0.020000000	t/TJ
2024	CO	1A1b	REFINERY GASES	0.019999974	t/TJ
2024	CO	1A1b	SULPHUR CONCENTRATE	0.050000174	t/TJ
2024	CO	1A2a	BLAST FURNACE GAS	0.020000002	t/TJ
2024	CO	1A2a	COKE (S=1.0%)	0.324413013	t/TJ
2024	CO	1A2a	COKE OVEN GAS	0.020000007	t/TJ
2024	CO	1A2a	DIESEL OIL (S=001%)	0.020000000	t/TJ
2024	CO	1A2a	GASOIL (FOR NON-ROAD USE)	0.020390184	t/TJ
2024	CO	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.014179324	t/TJ
2024	CO	1A2a	LIQUID GAS	0.021646989	t/TJ
2024	CO	1A2a	NATURAL GAS	0.019843942	t/TJ
2024	CO	1A2a	OTHER FOSSIL SOLID	1.500000000	t/TJ
2024	CO	1A2a	WOOD RESIDUE CHIPS	0.062105263	t/TJ
2024	CO	1A2b	COAL (S=1.0%)	0.030000035	t/TJ
2024	CO	1A2b	COKE (S=1.0%)	0.020000005	t/TJ
2024	CO	1A2b	DIESEL OIL (S=001%)	0.020000000	t/TJ
2024	CO	1A2b	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2024	CO	1A2b	HEAVY FUEL OIL (S<1%)	0.019999985	t/TJ
2024	CO	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.020234441	t/TJ
2024	CO	1A2b	LIQUEFIED NATURAL GAS (LNG)	0.020000000	t/TJ
2024	CO	1A2b	LIQUID GAS	0.240869771	t/TJ
2024	CO	1A2b	NAPHTHA	0.020000000	t/TJ
2024	CO	1A2b	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2024	CO	1A2c	AROMATIC GAS	0.000474842	t/TJ
2024	CO	1A2c	DIESEL OIL (S=001%)	120.850789558	t/TJ
2024	CO	1A2c	GASIFIED WASTE	0.000000769	t/TJ
2024	CO	1A2c	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2024	CO	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.007940088	t/TJ
2024	CO	1A2c	HEAVY FUEL OIL (S<0,1%)	0.020000001	t/TJ
2024	CO	1A2c	HEAVY FUEL OIL (S<1%)	0.019999996	t/TJ
2024	CO	1A2c	HYDROGEN	0.020000000	t/TJ
2024	CO	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.014888743	t/TJ
2024	CO	1A2c	LIQUEFIED NATURAL GAS (LNG)	0.020000007	t/TJ
2024	CO	1A2c	LIQUID GAS	0.018933282	t/TJ
2024	CO	1A2c	METHANOL	0.000474842	t/TJ
2024	CO	1A2c	NAPHTHA	0.020000000	t/TJ
2024	CO	1A2c	NATURAL GAS	0.015381313	t/TJ
2024	CO	1A2c	OTHER FOSSIL GAS	0.020000000	t/TJ
2024	CO	1A2c	OTHER FUEL	0.150000000	t/TJ
2024	CO	1A2c	OTHER MEDIUM DISTILLATES	0.020000000	t/TJ
2024	CO	1A2c	OTHER NON-FOSSIL SOLID	0.500000000	t/TJ
2024	CO	1A2c	OTHER WASTE	0.150000000	t/TJ
2024	CO	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.020000000	t/TJ
2024	CO	1A2c	REFINERY GASES	0.050000010	t/TJ
2024	CO	1A2c	RENEWABLE DIESEL	0.019999969	t/TJ
2024	CO	1A2c	SULPHUR CONCENTRATE	0.050000023	t/TJ
2024	CO	1A2c	TALL PITCH AND OIL	0.013598132	t/TJ
2024	CO	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.128276966	t/TJ
2024	CO	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.182161116	t/TJ
2024	CO	1A2d	ANIMAL-BASED FUELS	0.008655602	t/TJ
2024	CO	1A2d	AROMATIC GAS	0.015350785	t/TJ

2024	CO	1A2d	BARK	0.085027886	t/TJ
2024	CO	1A2d	BIO-FUEL OIL	0.020000000	t/TJ
2024	CO	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.026354547	t/TJ
2024	CO	1A2d	BIOLOGICAL SLURRY	0.058461551	t/TJ
2024	CO	1A2d	BLACK LIQUOR	0.053783175	t/TJ
2024	CO	1A2d	CHIPS FROM ROUNDWOOD	0.419486003	t/TJ
2024	CO	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.500000000	t/TJ
2024	CO	1A2d	COAL (S=1.0%)	0.004479764	t/TJ
2024	CO	1A2d	CUTTER CHIPS ETC.	0.350546355	t/TJ
2024	CO	1A2d	DEMOLITION WOOD	0.008655608	t/TJ
2024	CO	1A2d	FOREST RESIDUE CHIPS	0.070996104	t/TJ
2024	CO	1A2d	GASOIL (FOR NON-ROAD USE)	0.019999887	t/TJ
2024	CO	1A2d	HEAVY FUEL OIL (S<0,1%)	0.018527076	t/TJ
2024	CO	1A2d	HEAVY FUEL OIL (S<0,5%)	0.020000000	t/TJ
2024	CO	1A2d	HEAVY FUEL OIL (S<1%)	0.026295926	t/TJ
2024	CO	1A2d	HYDROGEN	0.019999976	t/TJ
2024	CO	1A2d	IMPREGNATED WOOD	0.008655602	t/TJ
2024	CO	1A2d	INDUSTRIAL WASTE	0.007920474	t/TJ
2024	CO	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.033036551	t/TJ
2024	CO	1A2d	LIQUEFIED NATURAL GAS (LNG)	0.020000000	t/TJ
2024	CO	1A2d	LIQUID GAS	0.020002861	t/TJ
2024	CO	1A2d	METHANOL	0.069639210	t/TJ
2024	CO	1A2d	MILLED PEAT	0.065833957	t/TJ
2024	CO	1A2d	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A2d	NATURAL GAS	0.035644537	t/TJ
2024	CO	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.150000339	t/TJ
2024	CO	1A2d	OTHER FUEL	0.150000229	t/TJ
2024	CO	1A2d	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2024	CO	1A2d	OTHER WOOD RESIDUE	0.500000000	t/TJ
2024	CO	1A2d	PAPER	0.292140591	t/TJ
2024	CO	1A2d	PLASTIC WASTE	0.004627548	t/TJ
2024	CO	1A2d	RECOVERED WOOD	0.044709504	t/TJ
2024	CO	1A2d	RECYCLED AND WASTE OILS	0.008655608	t/TJ
2024	CO	1A2d	SAWDUST	0.404196766	t/TJ
2024	CO	1A2d	SOD PEAT	0.500000000	t/TJ
2024	CO	1A2d	SOLID RECOVERED FUEL (SRF)	0.037175087	t/TJ
2024	CO	1A2d	TALL PITCH AND OIL	0.034717424	t/TJ
2024	CO	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.085590246	t/TJ
2024	CO	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.527091810	t/TJ
2024	CO	1A2d	WOOD RESIDUE CHIPS	0.127294886	t/TJ
2024	CO	1A2d	WOOD STUMP CHIPS	0.028852005	t/TJ
2024	CO	1A2e	ANIMAL FATS AND OILS	0.095914254	t/TJ
2024	CO	1A2e	ANIMAL-BASED FUELS	0.400000000	t/TJ
2024	CO	1A2e	BARK	0.149999977	t/TJ
2024	CO	1A2e	BIO-FUEL OIL	0.020000000	t/TJ
2024	CO	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.020000000	t/TJ
2024	CO	1A2e	CHIPS FROM ROUNDWOOD	0.500000000	t/TJ
2024	CO	1A2e	COKE (S=1.0%)	0.050000196	t/TJ
2024	CO	1A2e	FOREST RESIDUE CHIPS	0.280633699	t/TJ
2024	CO	1A2e	GASOIL (FOR NON-ROAD USE)	0.021977128	t/TJ
2024	CO	1A2e	HEAVY FUEL OIL (S<1%)	0.015675571	t/TJ
2024	CO	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.020465802	t/TJ
2024	CO	1A2e	LIQUEFIED NATURAL GAS (LNG)	0.020000000	t/TJ
2024	CO	1A2e	LIQUID GAS	0.014547880	t/TJ
2024	CO	1A2e	MILLED PEAT	0.099570471	t/TJ
2024	CO	1A2e	MOTOR GASOLINE (S=0.001%)	0.010500774	t/TJ

2024	CO	1A2e	NAPHTHA	0.020000000	t/TJ
2024	CO	1A2e	NATURAL GAS	0.020000001	t/TJ
2024	CO	1A2e	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A2e	OTHER MEDIUM DISTILLATES	0.020000000	t/TJ
2024	CO	1A2e	OTHER NON-FOSSIL GAS	0.020000000	t/TJ
2024	CO	1A2e	OTHER NON-FOSSIL SOLID	0.500000000	t/TJ
2024	CO	1A2e	OTHER NON-FOSSIL SOLID	0.500000279	t/TJ
2024	CO	1A2e	PEAT PELLETS AND BRIQUETTES	0.100000000	t/TJ
2024	CO	1A2e	RECOVERED WOOD	0.150000027	t/TJ
2024	CO	1A2e	SAWDUST	0.496019056	t/TJ
2024	CO	1A2e	SOD PEAT	0.500000000	t/TJ
2024	CO	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.400000000	t/TJ
2024	CO	1A2f	CHIPS FROM ROUNDWOOD	0.400000000	t/TJ
2024	CO	1A2f	COAL (S=1.0%)	1.329802926	t/TJ
2024	CO	1A2f	COKE OVEN GAS	0.020000000	t/TJ
2024	CO	1A2f	DIESEL OIL (S=001%)	0.020000000	t/TJ
2024	CO	1A2f	FOREST RESIDUE CHIPS	0.400000000	t/TJ
2024	CO	1A2f	GASOIL (FOR NON-ROAD USE)	0.020120909	t/TJ
2024	CO	1A2f	HEAVY FUEL OIL (S<0,1%)	0.020000000	t/TJ
2024	CO	1A2f	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2024	CO	1A2f	INDUSTRIAL WASTE	0.150000000	t/TJ
2024	CO	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.040549182	t/TJ
2024	CO	1A2f	LIQUID GAS	0.019833022	t/TJ
2024	CO	1A2f	MOTOR GASOLINE (S=0.001%)	0.020000000	t/TJ
2024	CO	1A2f	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A2f	NATURAL GAS	0.031415951	t/TJ
2024	CO	1A2f	OTHER FOSSIL LIQUID	0.020000000	t/TJ
2024	CO	1A2f	OTHER FUEL	0.150000000	t/TJ
2024	CO	1A2f	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2024	CO	1A2f	OTHER NON-FOSSIL GAS	0.019999993	t/TJ
2024	CO	1A2f	PETROLEUM COKE	1.044040404	t/TJ
2024	CO	1A2f	PLASTIC WASTE	0.150000000	t/TJ
2024	CO	1A2f	RECOVERED WOOD	0.150000000	t/TJ
2024	CO	1A2f	RECYCLED AND WASTE OILS	0.035691204	t/TJ
2024	CO	1A2f	RUBBER WASTE	1.500000000	t/TJ
2024	CO	1A2f	SAWDUST	1.653307431	t/TJ
2024	CO	1A2f	SOLID RECOVERED FUEL (SRF)	0.250000000	t/TJ
2024	CO	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	1.322645944	t/TJ
2024	CO	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.263041789	t/TJ
2024	CO	1A2gvii	LIQUID GAS	0.946127194	t/TJ
2024	CO	1A2gvii	MOTOR GASOLINE (S=0.001%)	24.248394833	t/TJ
2024	CO	1A2gviii	ANIMAL-BASED FUELS	0.004036388	t/TJ
2024	CO	1A2gviii	BARK	0.247295759	t/TJ
2024	CO	1A2gviii	BIO-FUEL OIL	0.020000000	t/TJ
2024	CO	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.018415039	t/TJ
2024	CO	1A2gviii	BIOLOGICAL SLURRY	0.006107078	t/TJ
2024	CO	1A2gviii	CHIPS FROM ROUNDWOOD	0.059546234	t/TJ
2024	CO	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.108544028	t/TJ
2024	CO	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.500000000	t/TJ
2024	CO	1A2gviii	CUTTER CHIPS ETC.	0.561289384	t/TJ
2024	CO	1A2gviii	DECIDUOUS TREE	0.500000000	t/TJ
2024	CO	1A2gviii	DEMOLITION WOOD	0.000880900	t/TJ
2024	CO	1A2gviii	DIESEL OIL (S=001%)	0.488800588	t/TJ
2024	CO	1A2gviii	FOREST RESIDUE CHIPS	0.400000000	t/TJ
2024	CO	1A2gviii	FOREST RESIDUE CHIPS	0.206464429	t/TJ
2024	CO	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.024745082	t/TJ

2024	CO	1A2gviii	HAZARDOUS WASTE	0.003358734	t/TJ
2024	CO	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.020000000	t/TJ
2024	CO	1A2gviii	HEAVY FUEL OIL (S<1%)	0.019157412	t/TJ
2024	CO	1A2gviii	IMPREGNATED WOOD	0.002543702	t/TJ
2024	CO	1A2gviii	LANDFILL GAS	0.303912940	t/TJ
2024	CO	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.025734214	t/TJ
2024	CO	1A2gviii	LIQUEFIED NATURAL GAS (LNG)	0.043389332	t/TJ
2024	CO	1A2gviii	LIQUID GAS	0.026897011	t/TJ
2024	CO	1A2gviii	MANURE	0.004036388	t/TJ
2024	CO	1A2gviii	MILLED PEAT	0.059766654	t/TJ
2024	CO	1A2gviii	MUNICIPAL WASTE - unsorted	0.007223337	t/TJ
2024	CO	1A2gviii	NAPHTHA	0.020000001	t/TJ
2024	CO	1A2gviii	NATURAL GAS	0.034732425	t/TJ
2024	CO	1A2gviii	NATURAL GAS	0.029288889	t/TJ
2024	CO	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.146912614	t/TJ
2024	CO	1A2gviii	OTHER HEAVY DISTILLATES	0.020000000	t/TJ
2024	CO	1A2gviii	OTHER NON-FOSSIL GAS	0.030099717	t/TJ
2024	CO	1A2gviii	OTHER NON-FOSSIL SOLID	0.500000000	t/TJ
2024	CO	1A2gviii	OTHER NON-FOSSIL SOLID	0.500000000	t/TJ
2024	CO	1A2gviii	OTHER WOOD RESIDUE	1.184122913	t/TJ
2024	CO	1A2gviii	PLASTIC WASTE	0.001757047	t/TJ
2024	CO	1A2gviii	RECOVERED WOOD	0.041298607	t/TJ
2024	CO	1A2gviii	RECYCLED AND WASTE OILS	0.002142828	t/TJ
2024	CO	1A2gviii	RENEWABLE DIESEL	0.020000000	t/TJ
2024	CO	1A2gviii	SAWDUST	0.062829417	t/TJ
2024	CO	1A2gviii	SAWDUST AND CUTTER CHIPS	0.500000000	t/TJ
2024	CO	1A2gviii	SOD PEAT	0.499999625	t/TJ
2024	CO	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.003252956	t/TJ
2024	CO	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.454046583	t/TJ
2024	CO	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.058779926	t/TJ
2024	CO	1A2gviii	WOOD RESIDUE CHIPS	0.465435672	t/TJ
2024	CO	1A2gviii	WOOD STUMP CHIPS	0.001563656	t/TJ
2024	CO	1A3ai(i)	KEROSENE (JET FUEL)	0.314776896	t/TJ
2024	CO	1A3aii(i)	AVIATION GASOLINE	19.612240734	t/TJ
2024	CO	1A3aii(i)	KEROSENE (JET FUEL)	0.389900613	t/TJ
2024	CO	1A3bi	DIESEL OIL (S=001%)	0.041696162	t/TJ
2024	CO	1A3bi	MOTOR GASOLINE (S=0.001%)	0.556302184	t/TJ
2024	CO	1A3bi	NATURAL GAS	0.206171615	t/TJ
2024	CO	1A3bii	DIESEL OIL (S=001%)	0.097720984	t/TJ
2024	CO	1A3bii	MOTOR GASOLINE (S=0.001%)	2.402639660	t/TJ
2024	CO	1A3biii	DIESEL OIL (S=001%)	0.049483128	t/TJ
2024	CO	1A3biii	MOTOR GASOLINE (S=0.001%)	0.225256145	t/TJ
2024	CO	1A3biii	NATURAL GAS	0.049090750	t/TJ
2024	CO	1A3biv	DIESEL OIL (S=001%)	0.557560812	t/TJ
2024	CO	1A3biv	MOTOR GASOLINE (S=0.001%)	2.918742531	t/TJ
2024	CO	1A3c	GASOIL (FOR NON-ROAD USE)	0.230877196	t/TJ
2024	CO	1A3dii	DIESEL OIL (S=001%)	0.466371517	t/TJ
2024	CO	1A3dii	GASOIL (FOR NON-ROAD USE)	0.190645448	t/TJ
2024	CO	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.154642943	t/TJ
2024	CO	1A3dii	LIQUEFIED NATURAL GAS (LNG)	0.090905149	t/TJ
2024	CO	1A3dii	MOTOR GASOLINE (S=0.001%)	13.609808687	t/TJ
2024	CO	1A3ei	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A4ai	BIO-FUEL OIL	0.020000000	t/TJ
2024	CO	1A4ai	FOREST WOODFUEL	0.229078000	t/TJ
2024	CO	1A4ai	GASOIL (FOR NON-ROAD USE)	0.020000007	t/TJ
2024	CO	1A4ai	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ

2024	CO	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.020114187	t/TJ
2024	CO	1A4ai	NAPHTHA	0.020000000	t/TJ
2024	CO	1A4ai	NATURAL GAS	0.020000000	t/TJ
2024	CO	1A4ai	NATURAL GAS	0.047563680	t/TJ
2024	CO	1A4ai	SOD PEAT	0.175757576	t/TJ
2024	CO	1A4aii	GASOIL (FOR NON-ROAD USE)	0.248005260	t/TJ
2024	CO	1A4aii	MOTOR GASOLINE (S=0.001%)	22.755217641	t/TJ
2024	CO	1A4bi	FOREST WOODFUEL	2.941706145	t/TJ
2024	CO	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.020000000	t/TJ
2024	CO	1A4bi	LIQUID GAS	0.050000000	t/TJ
2024	CO	1A4bi	NATURAL GAS	0.050000000	t/TJ
2024	CO	1A4bi	PARAFFIN	0.020000000	t/TJ
2024	CO	1A4bi	SOD PEAT	0.200000000	t/TJ
2024	CO	1A4bii	GASOIL (FOR NON-ROAD USE)	0.413828553	t/TJ
2024	CO	1A4bii	MOTOR GASOLINE (S=0.001%)	22.782273662	t/TJ
2024	CO	1A4ci	ANIMAL-BASED FUELS	0.150000000	t/TJ
2024	CO	1A4ci	CHIPS FROM ROUNDWOOD	0.500000000	t/TJ
2024	CO	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.500000000	t/TJ
2024	CO	1A4ci	FOREST RESIDUE CHIPS	0.444757563	t/TJ
2024	CO	1A4ci	FOREST WOODFUEL	0.233000000	t/TJ
2024	CO	1A4ci	GASOIL (FOR NON-ROAD USE)	0.020000000	t/TJ
2024	CO	1A4ci	HEAVY FUEL OIL (S<1%)	0.020000000	t/TJ
2024	CO	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.020000000	t/TJ
2024	CO	1A4ci	LIQUID GAS	0.050000000	t/TJ
2024	CO	1A4ci	MILLED PEAT	0.150000000	t/TJ
2024	CO	1A4ci	NATURAL GAS	0.050000000	t/TJ
2024	CO	1A4ci	OTHER NON-FOSSIL SOLID	0.500000000	t/TJ
2024	CO	1A4ci	RECOVERED WOOD	0.150000000	t/TJ
2024	CO	1A4ci	SOD PEAT	0.209498113	t/TJ
2024	CO	1A4ci	WOOD RESIDUE CHIPS	0.500000000	t/TJ
2024	CO	1A4cii	GASOIL (FOR NON-ROAD USE)	0.228832260	t/TJ
2024	CO	1A4cii	MOTOR GASOLINE (S=0.001%)	19.104079031	t/TJ
2024	CO	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.194947704	t/TJ
2024	CO	1A5a	AVIATION GASOLINE	23.437500000	t/TJ
2024	CO	1A5a	FOREST WOODFUEL	0.500000000	t/TJ
2024	CO	1A5a	KEROSENE (JET FUEL)	0.241896468	t/TJ
2024	CO	1A5a	LANDFILL GAS	0.050000000	t/TJ
2024	CO	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.058139906	t/TJ
2024	CO	1A5a	LIQUID GAS	0.050000000	t/TJ
2024	CO	1A5a	NATURAL GAS	0.050000000	t/TJ
2024	CO	1A5a	OTHER PETROLEUM PRODUCTS	0.020000000	t/TJ

Pb Implied emission factors in Finnish air pollutant inventory for 2024

2024	Pb	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.001707528	kg/TJ
2024	Pb	1A1a	ANIMAL-BASED FUELS	0.000041217	kg/TJ
2024	Pb	1A1a	ANTHRACITE	0.001020957	kg/TJ
2024	Pb	1A1a	ASPHALTENE	0.021767389	kg/TJ
2024	Pb	1A1a	BARK	0.003996326	kg/TJ
2024	Pb	1A1a	BIO PELLETS (NON-WOOD)	0.003400000	kg/TJ
2024	Pb	1A1a	BIOLOGICAL SLURRY	0.003400000	kg/TJ
2024	Pb	1A1a	CHIPS FROM ROUNDWOOD	0.004446775	kg/TJ
2024	Pb	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.014210764	kg/TJ
2024	Pb	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.027801837	kg/TJ
2024	Pb	1A1a	COAL (S=1.0%)	0.000749908	kg/TJ
2024	Pb	1A1a	CUTTER CHIPS ETC.	0.002657590	kg/TJ

2024	Pb	1A1a	DEINKING WASTE	0.006317309	kg/TJ
2024	Pb	1A1a	DEMOLITION WOOD	0.000423680	kg/TJ
2024	Pb	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.003400004	kg/TJ
2024	Pb	1A1a	FOREST RESIDUE CHIPS	0.014013768	kg/TJ
2024	Pb	1A1a	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.022615179	kg/TJ
2024	Pb	1A1a	HEAVY FUEL OIL (S<0,1%)	0.021599149	kg/TJ
2024	Pb	1A1a	HEAVY FUEL OIL (S<0,5%)	0.009676814	kg/TJ
2024	Pb	1A1a	HEAVY FUEL OIL (S<1%)	0.009624237	kg/TJ
2024	Pb	1A1a	IMPREGNATED WOOD	0.002512886	kg/TJ
2024	Pb	1A1a	INDUSTRIAL WASTE	0.007104893	kg/TJ
2024	Pb	1A1a	MILLED PEAT	0.010761030	kg/TJ
2024	Pb	1A1a	MUNICIPAL WASTE - unsorted	0.008132937	kg/TJ
2024	Pb	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003399801	kg/TJ
2024	Pb	1A1a	OTHER FOSSIL SOLID	0.000154931	kg/TJ
2024	Pb	1A1a	OTHER NON-FOSSIL SOLID	0.003262558	kg/TJ
2024	Pb	1A1a	OTHER NON-FOSSIL SOLID	0.002975443	kg/TJ
2024	Pb	1A1a	OTHER WASTE	0.000518156	kg/TJ
2024	Pb	1A1a	OTHER WOOD RESIDUE	0.031805632	kg/TJ
2024	Pb	1A1a	PAPER	0.002365482	kg/TJ
2024	Pb	1A1a	PLASTIC WASTE	0.001046153	kg/TJ
2024	Pb	1A1a	RECOVERED FUEL (REF 2)	0.045000000	kg/TJ
2024	Pb	1A1a	RECOVERED WOOD	0.003900898	kg/TJ
2024	Pb	1A1a	RECYCLED AND WASTE OILS	0.000358674	kg/TJ
2024	Pb	1A1a	SAWDUST	0.003980257	kg/TJ
2024	Pb	1A1a	SOD PEAT	0.168799402	kg/TJ
2024	Pb	1A1a	SOLID RECOVERED FUEL (SRF)	0.012511231	kg/TJ
2024	Pb	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005203466	kg/TJ
2024	Pb	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005521177	kg/TJ
2024	Pb	1A1a	WOOD RESIDUE CHIPS	0.014190603	kg/TJ
2024	Pb	1A1a	WOOD STUMP CHIPS	0.021060679	kg/TJ
2024	Pb	1A1b	PETROLEUM COKE	0.790000000	kg/TJ
2024	Pb	1A2a	WOOD RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A2b	HEAVY FUEL OIL (S<1%)	0.008098856	kg/TJ
2024	Pb	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.025000000	kg/TJ
2024	Pb	1A2c	HEAVY FUEL OIL (S<0,1%)	0.024344292	kg/TJ
2024	Pb	1A2c	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2024	Pb	1A2c	OTHER FUEL	0.003400000	kg/TJ
2024	Pb	1A2c	OTHER NON-FOSSIL SOLID	0.009779951	kg/TJ
2024	Pb	1A2c	OTHER WASTE	0.003400000	kg/TJ
2024	Pb	1A2c	SULPHUR CONCENTRATE	0.001046154	kg/TJ
2024	Pb	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.045000000	kg/TJ
2024	Pb	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.001539807	kg/TJ
2024	Pb	1A2d	ANIMAL-BASED FUELS	0.000121686	kg/TJ
2024	Pb	1A2d	BARK	0.001743464	kg/TJ
2024	Pb	1A2d	BIOLOGICAL SLURRY	0.002231017	kg/TJ
2024	Pb	1A2d	BLACK LIQUOR	0.016296183	kg/TJ
2024	Pb	1A2d	CHIPS FROM ROUNDWOOD	0.004154554	kg/TJ
2024	Pb	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.010550909	kg/TJ
2024	Pb	1A2d	COAL (S=1.0%)	0.000232922	kg/TJ
2024	Pb	1A2d	CUTTER CHIPS ETC.	0.002078173	kg/TJ
2024	Pb	1A2d	DEMOLITION WOOD	0.000121686	kg/TJ
2024	Pb	1A2d	FOREST RESIDUE CHIPS	0.002446120	kg/TJ
2024	Pb	1A2d	HEAVY FUEL OIL (S<0,1%)	0.011289156	kg/TJ
2024	Pb	1A2d	HEAVY FUEL OIL (S<0,5%)	0.025000000	kg/TJ
2024	Pb	1A2d	HEAVY FUEL OIL (S<1%)	0.001933521	kg/TJ

2024	Pb	1A2d	IMPREGNATED WOOD	0.000121686	kg/TJ
2024	Pb	1A2d	INDUSTRIAL WASTE	0.005219434	kg/TJ
2024	Pb	1A2d	MILLED PEAT	0.000325985	kg/TJ
2024	Pb	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003003120	kg/TJ
2024	Pb	1A2d	OTHER FUEL	0.000336200	kg/TJ
2024	Pb	1A2d	OTHER WOOD RESIDUE	0.045000000	kg/TJ
2024	Pb	1A2d	PAPER	0.000632712	kg/TJ
2024	Pb	1A2d	PLASTIC WASTE	0.000205166	kg/TJ
2024	Pb	1A2d	RECOVERED WOOD	0.000559327	kg/TJ
2024	Pb	1A2d	RECYCLED AND WASTE OILS	0.000139581	kg/TJ
2024	Pb	1A2d	SAWDUST	0.001993431	kg/TJ
2024	Pb	1A2d	SOD PEAT	0.170000000	kg/TJ
2024	Pb	1A2d	SOLID RECOVERED FUEL (SRF)	0.011874604	kg/TJ
2024	Pb	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000549662	kg/TJ
2024	Pb	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.021652162	kg/TJ
2024	Pb	1A2d	WOOD RESIDUE CHIPS	0.006611927	kg/TJ
2024	Pb	1A2d	WOOD STUMP CHIPS	0.000121686	kg/TJ
2024	Pb	1A2e	ANIMAL FATS AND OILS	0.003400000	kg/TJ
2024	Pb	1A2e	ANIMAL-BASED FUELS	0.045000000	kg/TJ
2024	Pb	1A2e	BARK	0.003400000	kg/TJ
2024	Pb	1A2e	BIO-FUEL OIL	0.025000034	kg/TJ
2024	Pb	1A2e	CHIPS FROM ROUNDWOOD	0.003399998	kg/TJ
2024	Pb	1A2e	COKE (S=1.0%)	0.789998775	kg/TJ
2024	Pb	1A2e	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A2e	HEAVY FUEL OIL (S<1%)	0.023188660	kg/TJ
2024	Pb	1A2e	MILLED PEAT	0.096673731	kg/TJ
2024	Pb	1A2e	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2024	Pb	1A2e	OTHER NON-FOSSIL SOLID	0.003399994	kg/TJ
2024	Pb	1A2e	PEAT PELLETS AND BRIQUETTES	0.001000000	kg/TJ
2024	Pb	1A2e	RECOVERED WOOD	0.003400003	kg/TJ
2024	Pb	1A2e	SAWDUST	0.003785133	kg/TJ
2024	Pb	1A2e	SOD PEAT	0.170000000	kg/TJ
2024	Pb	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.045000000	kg/TJ
2024	Pb	1A2f	CHIPS FROM ROUNDWOOD	0.045000000	kg/TJ
2024	Pb	1A2f	COAL (S=1.0%)	0.582725902	kg/TJ
2024	Pb	1A2f	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A2f	HEAVY FUEL OIL (S<0,1%)	0.025000000	kg/TJ
2024	Pb	1A2f	HEAVY FUEL OIL (S<1%)	0.022643867	kg/TJ
2024	Pb	1A2f	INDUSTRIAL WASTE	0.002168161	kg/TJ
2024	Pb	1A2f	OTHER FOSSIL LIQUID	0.000065084	kg/TJ
2024	Pb	1A2f	OTHER FUEL	0.003400000	kg/TJ
2024	Pb	1A2f	OTHER HEAVY DISTILLATES	0.025000000	kg/TJ
2024	Pb	1A2f	PETROLEUM COKE	0.000763635	kg/TJ
2024	Pb	1A2f	PLASTIC WASTE	0.000029615	kg/TJ
2024	Pb	1A2f	RECOVERED WOOD	0.003400000	kg/TJ
2024	Pb	1A2f	RECYCLED AND WASTE OILS	0.002599754	kg/TJ
2024	Pb	1A2f	RUBBER WASTE	0.000163817	kg/TJ
2024	Pb	1A2f	SAWDUST	0.000067355	kg/TJ
2024	Pb	1A2f	SOLID RECOVERED FUEL (SRF)	0.000517587	kg/TJ
2024	Pb	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000891458	kg/TJ
2024	Pb	1A2gviii	ANIMAL-BASED FUELS	0.045000000	kg/TJ
2024	Pb	1A2gviii	BARK	0.009811602	kg/TJ
2024	Pb	1A2gviii	BIOLOGICAL SLURRY	0.003400000	kg/TJ
2024	Pb	1A2gviii	CHIPS FROM ROUNDWOOD	0.001185515	kg/TJ
2024	Pb	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.045000000	kg/TJ
2024	Pb	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.045000000	kg/TJ

2024	Pb	1A2gviii	CUTTER CHIPS ETC.	0.006289307	kg/TJ
2024	Pb	1A2gviii	DECIDUOUS TREE	0.045000000	kg/TJ
2024	Pb	1A2gviii	DEMOLITION WOOD	0.000114683	kg/TJ
2024	Pb	1A2gviii	FOREST RESIDUE CHIPS	0.013065418	kg/TJ
2024	Pb	1A2gviii	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A2gviii	HAZARDOUS WASTE	0.000919962	kg/TJ
2024	Pb	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.025000000	kg/TJ
2024	Pb	1A2gviii	HEAVY FUEL OIL (S<1%)	0.023495479	kg/TJ
2024	Pb	1A2gviii	IMPREGNATED WOOD	0.001724531	kg/TJ
2024	Pb	1A2gviii	MANURE	0.045000000	kg/TJ
2024	Pb	1A2gviii	MILLED PEAT	0.000887285	kg/TJ
2024	Pb	1A2gviii	MUNICIPAL WASTE - unsorted	0.000671595	kg/TJ
2024	Pb	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.003326735	kg/TJ
2024	Pb	1A2gviii	OTHER HEAVY DISTILLATES	0.003748091	kg/TJ
2024	Pb	1A2gviii	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2024	Pb	1A2gviii	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2024	Pb	1A2gviii	OTHER WOOD RESIDUE	0.042391886	kg/TJ
2024	Pb	1A2gviii	PLASTIC WASTE	0.001048840	kg/TJ
2024	Pb	1A2gviii	RECOVERED WOOD	0.008750852	kg/TJ
2024	Pb	1A2gviii	RECYCLED AND WASTE OILS	0.000703113	kg/TJ
2024	Pb	1A2gviii	SAWDUST	0.001343819	kg/TJ
2024	Pb	1A2gviii	SAWDUST AND CUTTER CHIPS	0.045000000	kg/TJ
2024	Pb	1A2gviii	SOD PEAT	0.062512178	kg/TJ
2024	Pb	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.007427589	kg/TJ
2024	Pb	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.005217164	kg/TJ
2024	Pb	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.039720682	kg/TJ
2024	Pb	1A2gviii	WOOD RESIDUE CHIPS	0.026100329	kg/TJ
2024	Pb	1A2gviii	WOOD STUMP CHIPS	0.001338990	kg/TJ
2024	Pb	1A3aii(i)	AVIATION GASOLINE	13.443936000	kg/TJ
2024	Pb	1A3bi	DIESEL OIL (S=001%)	0.000016144	kg/TJ
2024	Pb	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000043621	kg/TJ
2024	Pb	1A3bi	NATURAL GAS	0.000010344	kg/TJ
2024	Pb	1A3bii	DIESEL OIL (S=001%)	0.000015470	kg/TJ
2024	Pb	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000031214	kg/TJ
2024	Pb	1A3biii	DIESEL OIL (S=001%)	0.000013973	kg/TJ
2024	Pb	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000015785	kg/TJ
2024	Pb	1A3biii	NATURAL GAS	0.000000885	kg/TJ
2024	Pb	1A3biv	DIESEL OIL (S=001%)	0.000016978	kg/TJ
2024	Pb	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000048038	kg/TJ
2024	Pb	1A3dii	GASOIL (FOR NON-ROAD USE)	0.003045553	kg/TJ
2024	Pb	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.004275534	kg/TJ
2024	Pb	1A4ai	FOREST WOODFUEL	0.010000000	kg/TJ
2024	Pb	1A4ai	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2024	Pb	1A4ai	SOD PEAT	0.170000000	kg/TJ
2024	Pb	1A4bi	FOREST WOODFUEL	0.010000000	kg/TJ
2024	Pb	1A4bi	SOD PEAT	0.170000000	kg/TJ
2024	Pb	1A4ci	ANIMAL-BASED FUELS	0.045000000	kg/TJ
2024	Pb	1A4ci	CHIPS FROM ROUNDWOOD	0.003400000	kg/TJ
2024	Pb	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.045000000	kg/TJ
2024	Pb	1A4ci	FOREST RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A4ci	FOREST WOODFUEL	0.010000000	kg/TJ
2024	Pb	1A4ci	HEAVY FUEL OIL (S<1%)	0.025000000	kg/TJ
2024	Pb	1A4ci	MILLED PEAT	0.001000000	kg/TJ
2024	Pb	1A4ci	OTHER NON-FOSSIL SOLID	0.003400000	kg/TJ
2024	Pb	1A4ci	RECOVERED WOOD	0.003400000	kg/TJ
2024	Pb	1A4ci	SOD PEAT	0.170000000	kg/TJ

2024	Pb	1A4ci	WOOD RESIDUE CHIPS	0.045000000	kg/TJ
2024	Pb	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.003163945	kg/TJ
2024	Pb	1A5a	FOREST WOODFUEL	0.045000000	kg/TJ
2024	Pb	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000384558	kg/TJ
2024	Pb	1A5a	OTHER PETROLEUM PRODUCTS	0.025000000	kg/TJ

Cd Implied emission factors in Finnish air pollutant inventory for 2024

2024	Cd	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000258501	kg/TJ
2024	Cd	1A1a	ANIMAL-BASED FUELS	0.000010399	kg/TJ
2024	Cd	1A1a	ANTHRACITE	0.000127620	kg/TJ
2024	Cd	1A1a	ASPHALTENE	0.000260907	kg/TJ
2024	Cd	1A1a	BARK	0.000454494	kg/TJ
2024	Cd	1A1a	BIO PELLETS (NON-WOOD)	0.000500000	kg/TJ
2024	Cd	1A1a	BIOLOGICAL SLURRY	0.000500000	kg/TJ
2024	Cd	1A1a	CHIPS FROM ROUNDWOOD	0.000501422	kg/TJ
2024	Cd	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.001581896	kg/TJ
2024	Cd	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.003120713	kg/TJ
2024	Cd	1A1a	COAL (S=1.0%)	0.000042401	kg/TJ
2024	Cd	1A1a	CUTTER CHIPS ETC.	0.000486957	kg/TJ
2024	Cd	1A1a	DEINKING WASTE	0.000815573	kg/TJ
2024	Cd	1A1a	DEMOLITION WOOD	0.000115659	kg/TJ
2024	Cd	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000500000	kg/TJ
2024	Cd	1A1a	FOREST RESIDUE CHIPS	0.001733193	kg/TJ
2024	Cd	1A1a	FOREST RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000272903	kg/TJ
2024	Cd	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000269939	kg/TJ
2024	Cd	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000197186	kg/TJ
2024	Cd	1A1a	HEAVY FUEL OIL (S<1%)	0.000148556	kg/TJ
2024	Cd	1A1a	IMPREGNATED WOOD	0.000353961	kg/TJ
2024	Cd	1A1a	INDUSTRIAL WASTE	0.001298653	kg/TJ
2024	Cd	1A1a	MILLED PEAT	0.000172282	kg/TJ
2024	Cd	1A1a	MUNICIPAL WASTE - unsorted	0.000960364	kg/TJ
2024	Cd	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000499957	kg/TJ
2024	Cd	1A1a	OTHER FOSSIL SOLID	0.000007858	kg/TJ
2024	Cd	1A1a	OTHER NON-FOSSIL SOLID	0.000403715	kg/TJ
2024	Cd	1A1a	OTHER NON-FOSSIL SOLID	0.000479362	kg/TJ
2024	Cd	1A1a	OTHER WASTE	0.000439949	kg/TJ
2024	Cd	1A1a	OTHER WOOD RESIDUE	0.004831612	kg/TJ
2024	Cd	1A1a	PAPER	0.000349201	kg/TJ
2024	Cd	1A1a	PLASTIC WASTE	0.000485893	kg/TJ
2024	Cd	1A1a	RECOVERED FUEL (REF 2)	0.005000000	kg/TJ
2024	Cd	1A1a	RECOVERED WOOD	0.001649553	kg/TJ
2024	Cd	1A1a	RECYCLED AND WASTE OILS	0.000019988	kg/TJ
2024	Cd	1A1a	SAWDUST	0.000448343	kg/TJ
2024	Cd	1A1a	SOD PEAT	0.002780006	kg/TJ
2024	Cd	1A1a	SOLID RECOVERED FUEL (SRF)	0.002563969	kg/TJ
2024	Cd	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.001334886	kg/TJ
2024	Cd	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000659447	kg/TJ
2024	Cd	1A1a	WOOD RESIDUE CHIPS	0.001702600	kg/TJ
2024	Cd	1A1a	WOOD STUMP CHIPS	0.002201676	kg/TJ
2024	Cd	1A1b	PETROLEUM COKE	0.018000000	kg/TJ
2024	Cd	1A2a	WOOD RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A2b	HEAVY FUEL OIL (S<1%)	0.000097186	kg/TJ
2024	Cd	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000300000	kg/TJ
2024	Cd	1A2c	HEAVY FUEL OIL (S<0,1%)	0.000295628	kg/TJ

2024	Cd	1A2c	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2024	Cd	1A2c	OTHER FUEL	0.000500000	kg/TJ
2024	Cd	1A2c	OTHER NON-FOSSIL SOLID	0.010187449	kg/TJ
2024	Cd	1A2c	OTHER WASTE	0.000500000	kg/TJ
2024	Cd	1A2c	SULPHUR CONCENTRATE	0.000225000	kg/TJ
2024	Cd	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005000000	kg/TJ
2024	Cd	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000141732	kg/TJ
2024	Cd	1A2d	ANIMAL-BASED FUELS	0.000005913	kg/TJ
2024	Cd	1A2d	BARK	0.000223162	kg/TJ
2024	Cd	1A2d	BIOLOGICAL SLURRY	0.000223844	kg/TJ
2024	Cd	1A2d	BLACK LIQUOR	0.001036214	kg/TJ
2024	Cd	1A2d	CHIPS FROM ROUNDWOOD	0.000402887	kg/TJ
2024	Cd	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.001143011	kg/TJ
2024	Cd	1A2d	COAL (S=1.0%)	0.000006440	kg/TJ
2024	Cd	1A2d	CUTTER CHIPS ETC.	0.000272114	kg/TJ
2024	Cd	1A2d	DEMOLITION WOOD	0.000005913	kg/TJ
2024	Cd	1A2d	FOREST RESIDUE CHIPS	0.000276205	kg/TJ
2024	Cd	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000196552	kg/TJ
2024	Cd	1A2d	HEAVY FUEL OIL (S<0,5%)	0.000300000	kg/TJ
2024	Cd	1A2d	HEAVY FUEL OIL (S<1%)	0.000066898	kg/TJ
2024	Cd	1A2d	IMPREGNATED WOOD	0.000005913	kg/TJ
2024	Cd	1A2d	INDUSTRIAL WASTE	0.000602302	kg/TJ
2024	Cd	1A2d	MILLED PEAT	0.000002516	kg/TJ
2024	Cd	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000500000	kg/TJ
2024	Cd	1A2d	OTHER FUEL	0.000074638	kg/TJ
2024	Cd	1A2d	OTHER WOOD RESIDUE	0.005000000	kg/TJ
2024	Cd	1A2d	PAPER	0.000007922	kg/TJ
2024	Cd	1A2d	PLASTIC WASTE	0.000016553	kg/TJ
2024	Cd	1A2d	RECOVERED WOOD	0.000041051	kg/TJ
2024	Cd	1A2d	RECYCLED AND WASTE OILS	0.000002365	kg/TJ
2024	Cd	1A2d	SAWDUST	0.000235743	kg/TJ
2024	Cd	1A2d	SOD PEAT	0.002800000	kg/TJ
2024	Cd	1A2d	SOLID RECOVERED FUEL (SRF)	0.000612010	kg/TJ
2024	Cd	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000010084	kg/TJ
2024	Cd	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000193831	kg/TJ
2024	Cd	1A2d	WOOD RESIDUE CHIPS	0.000713057	kg/TJ
2024	Cd	1A2d	WOOD STUMP CHIPS	0.000005913	kg/TJ
2024	Cd	1A2e	ANIMAL FATS AND OILS	0.000500000	kg/TJ
2024	Cd	1A2e	ANIMAL-BASED FUELS	0.005000000	kg/TJ
2024	Cd	1A2e	BARK	0.000499999	kg/TJ
2024	Cd	1A2e	BIO-FUEL OIL	0.000300000	kg/TJ
2024	Cd	1A2e	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2024	Cd	1A2e	COKE (S=1.0%)	0.017999988	kg/TJ
2024	Cd	1A2e	FOREST RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A2e	HEAVY FUEL OIL (S<1%)	0.000278683	kg/TJ
2024	Cd	1A2e	MILLED PEAT	0.001593805	kg/TJ
2024	Cd	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Cd	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Cd	1A2e	PEAT PELLETS AND BRIQUETTES	0.000020000	kg/TJ
2024	Cd	1A2e	RECOVERED WOOD	0.000500000	kg/TJ
2024	Cd	1A2e	SAWDUST	0.000541661	kg/TJ
2024	Cd	1A2e	SOD PEAT	0.002800000	kg/TJ
2024	Cd	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005000000	kg/TJ
2024	Cd	1A2f	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2024	Cd	1A2f	COAL (S=1.0%)	0.013320726	kg/TJ
2024	Cd	1A2f	FOREST RESIDUE CHIPS	0.005000000	kg/TJ

2024	Cd	1A2f	HEAVY FUEL OIL (S<0,1%)	0.000300000	kg/TJ
2024	Cd	1A2f	HEAVY FUEL OIL (S<1%)	0.000288833	kg/TJ
2024	Cd	1A2f	INDUSTRIAL WASTE	0.005733695	kg/TJ
2024	Cd	1A2f	OTHER FOSSIL LIQUID	0.000002904	kg/TJ
2024	Cd	1A2f	OTHER FUEL	0.000500000	kg/TJ
2024	Cd	1A2f	OTHER HEAVY DISTILLATES	0.000300000	kg/TJ
2024	Cd	1A2f	PETROLEUM COKE	0.000212373	kg/TJ
2024	Cd	1A2f	PLASTIC WASTE	0.000146463	kg/TJ
2024	Cd	1A2f	RECOVERED WOOD	0.000500000	kg/TJ
2024	Cd	1A2f	RECYCLED AND WASTE OILS	0.000138148	kg/TJ
2024	Cd	1A2f	RUBBER WASTE	0.000573369	kg/TJ
2024	Cd	1A2f	SAWDUST	0.000045384	kg/TJ
2024	Cd	1A2f	SOLID RECOVERED FUEL (SRF)	0.001158388	kg/TJ
2024	Cd	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000453836	kg/TJ
2024	Cd	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A2gvii	LIQUID GAS	0.000215983	kg/TJ
2024	Cd	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.000263709	kg/TJ
2024	Cd	1A2gviii	ANIMAL-BASED FUELS	0.009649747	kg/TJ
2024	Cd	1A2gviii	BARK	0.001236329	kg/TJ
2024	Cd	1A2gviii	BIOLOGICAL SLURRY	0.000500000	kg/TJ
2024	Cd	1A2gviii	CHIPS FROM ROUNDWOOD	0.000265395	kg/TJ
2024	Cd	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.005000000	kg/TJ
2024	Cd	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.005000000	kg/TJ
2024	Cd	1A2gviii	CUTTER CHIPS ETC.	0.001044838	kg/TJ
2024	Cd	1A2gviii	DECIDUOUS TREE	0.005000000	kg/TJ
2024	Cd	1A2gviii	DEMOLITION WOOD	0.000137892	kg/TJ
2024	Cd	1A2gviii	FOREST RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A2gviii	FOREST RESIDUE CHIPS	0.002216248	kg/TJ
2024	Cd	1A2gviii	HAZARDOUS WASTE	0.000320827	kg/TJ
2024	Cd	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.000300000	kg/TJ
2024	Cd	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000283828	kg/TJ
2024	Cd	1A2gviii	IMPREGNATED WOOD	0.000039049	kg/TJ
2024	Cd	1A2gviii	MANURE	0.009649747	kg/TJ
2024	Cd	1A2gviii	MILLED PEAT	0.000018376	kg/TJ
2024	Cd	1A2gviii	MUNICIPAL WASTE - unsorted	0.000104723	kg/TJ
2024	Cd	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000491970	kg/TJ
2024	Cd	1A2gviii	OTHER HEAVY DISTILLATES	0.000193811	kg/TJ
2024	Cd	1A2gviii	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Cd	1A2gviii	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Cd	1A2gviii	OTHER WOOD RESIDUE	0.004717872	kg/TJ
2024	Cd	1A2gviii	PLASTIC WASTE	0.000024766	kg/TJ
2024	Cd	1A2gviii	RECOVERED WOOD	0.001076416	kg/TJ
2024	Cd	1A2gviii	RECYCLED AND WASTE OILS	0.000053151	kg/TJ
2024	Cd	1A2gviii	SAWDUST	0.000274552	kg/TJ
2024	Cd	1A2gviii	SAWDUST AND CUTTER CHIPS	0.005000000	kg/TJ
2024	Cd	1A2gviii	SOD PEAT	0.001030156	kg/TJ
2024	Cd	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.001888775	kg/TJ
2024	Cd	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000820148	kg/TJ
2024	Cd	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.004562840	kg/TJ
2024	Cd	1A2gviii	WOOD RESIDUE CHIPS	0.002996204	kg/TJ
2024	Cd	1A2gviii	WOOD STUMP CHIPS	0.001384601	kg/TJ
2024	Cd	1A3bi	DIESEL OIL (S=001%)	0.000376462	kg/TJ
2024	Cd	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000338889	kg/TJ
2024	Cd	1A3bi	NATURAL GAS	0.000418969	kg/TJ
2024	Cd	1A3bii	DIESEL OIL (S=001%)	0.000280772	kg/TJ
2024	Cd	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000184026	kg/TJ

2024	Cd	1A3biii	DIESEL OIL (S=001%)	0.000075141	kg/TJ
2024	Cd	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000051528	kg/TJ
2024	Cd	1A3biii	NATURAL GAS	0.000121492	kg/TJ
2024	Cd	1A3biv	DIESEL OIL (S=001%)	0.000487929	kg/TJ
2024	Cd	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000716508	kg/TJ
2024	Cd	1A3c	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000234273	kg/TJ
2024	Cd	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000475059	kg/TJ
2024	Cd	1A4ai	FOREST WOODFUEL	0.003000000	kg/TJ
2024	Cd	1A4ai	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2024	Cd	1A4ai	SOD PEAT	0.002800000	kg/TJ
2024	Cd	1A4aii	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A4aii	MOTOR GASOLINE (S=0.001%)	0.000263709	kg/TJ
2024	Cd	1A4bi	FOREST WOODFUEL	0.003000000	kg/TJ
2024	Cd	1A4bi	SOD PEAT	0.002800000	kg/TJ
2024	Cd	1A4bii	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A4bii	MOTOR GASOLINE (S=0.001%)	0.000263709	kg/TJ
2024	Cd	1A4ci	ANIMAL-BASED FUELS	0.005000000	kg/TJ
2024	Cd	1A4ci	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2024	Cd	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.005000000	kg/TJ
2024	Cd	1A4ci	FOREST RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A4ci	FOREST WOODFUEL	0.003000000	kg/TJ
2024	Cd	1A4ci	HEAVY FUEL OIL (S<1%)	0.000300000	kg/TJ
2024	Cd	1A4ci	MILLED PEAT	0.000020000	kg/TJ
2024	Cd	1A4ci	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Cd	1A4ci	RECOVERED WOOD	0.000500000	kg/TJ
2024	Cd	1A4ci	SOD PEAT	0.002800000	kg/TJ
2024	Cd	1A4ci	WOOD RESIDUE CHIPS	0.005000000	kg/TJ
2024	Cd	1A4cii	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A4cii	MOTOR GASOLINE (S=0.001%)	0.000263709	kg/TJ
2024	Cd	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000243380	kg/TJ
2024	Cd	1A5a	FOREST WOODFUEL	0.005000000	kg/TJ
2024	Cd	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000033530	kg/TJ
2024	Cd	1A5a	OTHER PETROLEUM PRODUCTS	0.000300000	kg/TJ

Hg Implied emission factors in Finnish air pollutant inventory for 2024

2024	Hg	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000352310	kg/TJ
2024	Hg	1A1a	ANIMAL-BASED FUELS	0.000187746	kg/TJ
2024	Hg	1A1a	ANTHRACITE	0.000382859	kg/TJ
2024	Hg	1A1a	ASPHALTENE	0.000026295	kg/TJ
2024	Hg	1A1a	BARK	0.000759234	kg/TJ
2024	Hg	1A1a	BIO PELLETS (NON-WOOD)	0.000500000	kg/TJ
2024	Hg	1A1a	BIOLOGICAL SLURRY	0.000500000	kg/TJ
2024	Hg	1A1a	CHIPS FROM ROUNDWOOD	0.000388802	kg/TJ
2024	Hg	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000270045	kg/TJ
2024	Hg	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000698785	kg/TJ
2024	Hg	1A1a	COAL (S=1.0%)	0.000669514	kg/TJ
2024	Hg	1A1a	CUTTER CHIPS ETC.	0.000509159	kg/TJ
2024	Hg	1A1a	DEINKING WASTE	0.000500000	kg/TJ
2024	Hg	1A1a	DEMOLITION WOOD	0.000241032	kg/TJ
2024	Hg	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000500000	kg/TJ
2024	Hg	1A1a	FOREST RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A1a	FOREST RESIDUE CHIPS	0.000562019	kg/TJ
2024	Hg	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000027081	kg/TJ
2024	Hg	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000028244	kg/TJ

2024	Hg	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000029734	kg/TJ
2024	Hg	1A1a	HEAVY FUEL OIL (S<1%)	0.000042572	kg/TJ
2024	Hg	1A1a	IMPREGNATED WOOD	0.000532970	kg/TJ
2024	Hg	1A1a	INDUSTRIAL WASTE	0.000365324	kg/TJ
2024	Hg	1A1a	MILLED PEAT	0.002186566	kg/TJ
2024	Hg	1A1a	MUNICIPAL WASTE - unsorted	0.000232941	kg/TJ
2024	Hg	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000499962	kg/TJ
2024	Hg	1A1a	OTHER FOSSIL SOLID	0.000768110	kg/TJ
2024	Hg	1A1a	OTHER NON-FOSSIL SOLID	0.000408900	kg/TJ
2024	Hg	1A1a	OTHER NON-FOSSIL SOLID	0.000531965	kg/TJ
2024	Hg	1A1a	OTHER WASTE	0.000316117	kg/TJ
2024	Hg	1A1a	OTHER WOOD RESIDUE	0.000436405	kg/TJ
2024	Hg	1A1a	PAPER	0.000403825	kg/TJ
2024	Hg	1A1a	PLASTIC WASTE	0.000008906	kg/TJ
2024	Hg	1A1a	RECOVERED FUEL (REF 2)	0.000500000	kg/TJ
2024	Hg	1A1a	RECOVERED WOOD	0.000680225	kg/TJ
2024	Hg	1A1a	RECYCLED AND WASTE OILS	0.000012779	kg/TJ
2024	Hg	1A1a	SAWDUST	0.000586902	kg/TJ
2024	Hg	1A1a	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A1a	SOLID RECOVERED FUEL (SRF)	0.000676721	kg/TJ
2024	Hg	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000779160	kg/TJ
2024	Hg	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000204008	kg/TJ
2024	Hg	1A1a	WOOD RESIDUE CHIPS	0.000496316	kg/TJ
2024	Hg	1A1a	WOOD STUMP CHIPS	0.002212972	kg/TJ
2024	Hg	1A1b	PETROLEUM COKE	0.003700000	kg/TJ
2024	Hg	1A2a	COKE (S=1.0%)	0.000085369	kg/TJ
2024	Hg	1A2a	OTHER FOSSIL SOLID	0.001400000	kg/TJ
2024	Hg	1A2a	WOOD RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A2b	HEAVY FUEL OIL (S<1%)	0.000009719	kg/TJ
2024	Hg	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000030000	kg/TJ
2024	Hg	1A2c	HEAVY FUEL OIL (S<0,1%)	0.000030000	kg/TJ
2024	Hg	1A2c	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2024	Hg	1A2c	OTHER FUEL	0.000500000	kg/TJ
2024	Hg	1A2c	OTHER NON-FOSSIL SOLID	0.010187449	kg/TJ
2024	Hg	1A2c	OTHER WASTE	0.000500000	kg/TJ
2024	Hg	1A2c	SULPHUR CONCENTRATE	0.000339286	kg/TJ
2024	Hg	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000500000	kg/TJ
2024	Hg	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.002154424	kg/TJ
2024	Hg	1A2d	ANIMAL-BASED FUELS	0.000117901	kg/TJ
2024	Hg	1A2d	BARK	0.000619402	kg/TJ
2024	Hg	1A2d	BIOLOGICAL SLURRY	0.000341940	kg/TJ
2024	Hg	1A2d	BLACK LIQUOR	0.000447111	kg/TJ
2024	Hg	1A2d	CHIPS FROM ROUNDWOOD	0.000396453	kg/TJ
2024	Hg	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000701841	kg/TJ
2024	Hg	1A2d	COAL (S=1.0%)	0.000722129	kg/TJ
2024	Hg	1A2d	CUTTER CHIPS ETC.	0.000378899	kg/TJ
2024	Hg	1A2d	DEMOLITION WOOD	0.000117901	kg/TJ
2024	Hg	1A2d	FOREST RESIDUE CHIPS	0.000480938	kg/TJ
2024	Hg	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000028530	kg/TJ
2024	Hg	1A2d	HEAVY FUEL OIL (S<0,5%)	0.000030000	kg/TJ
2024	Hg	1A2d	HEAVY FUEL OIL (S<1%)	0.000017197	kg/TJ
2024	Hg	1A2d	IMPREGNATED WOOD	0.000117901	kg/TJ
2024	Hg	1A2d	INDUSTRIAL WASTE	0.000333458	kg/TJ
2024	Hg	1A2d	MILLED PEAT	0.000579067	kg/TJ
2024	Hg	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000500000	kg/TJ
2024	Hg	1A2d	OTHER FUEL	0.000002024	kg/TJ

2024	Hg	1A2d	OTHER WOOD RESIDUE	0.000500000	kg/TJ
2024	Hg	1A2d	PAPER	0.000268940	kg/TJ
2024	Hg	1A2d	PLASTIC WASTE	0.000260998	kg/TJ
2024	Hg	1A2d	RECOVERED WOOD	0.000152745	kg/TJ
2024	Hg	1A2d	RECYCLED AND WASTE OILS	0.000007074	kg/TJ
2024	Hg	1A2d	SAWDUST	0.000588708	kg/TJ
2024	Hg	1A2d	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A2d	SOLID RECOVERED FUEL (SRF)	0.000117523	kg/TJ
2024	Hg	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000336775	kg/TJ
2024	Hg	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000081874	kg/TJ
2024	Hg	1A2d	WOOD RESIDUE CHIPS	0.000382691	kg/TJ
2024	Hg	1A2d	WOOD STUMP CHIPS	0.000117901	kg/TJ
2024	Hg	1A2e	ANIMAL FATS AND OILS	0.000500000	kg/TJ
2024	Hg	1A2e	ANIMAL-BASED FUELS	0.000500000	kg/TJ
2024	Hg	1A2e	BARK	0.000499999	kg/TJ
2024	Hg	1A2e	BIO-FUEL OIL	0.000030000	kg/TJ
2024	Hg	1A2e	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2024	Hg	1A2e	COKE (S=1.0%)	0.003700000	kg/TJ
2024	Hg	1A2e	FOREST RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A2e	HEAVY FUEL OIL (S<1%)	0.000027868	kg/TJ
2024	Hg	1A2e	MILLED PEAT	0.002035952	kg/TJ
2024	Hg	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Hg	1A2e	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Hg	1A2e	PEAT PELLETS AND BRIQUETTES	0.001300000	kg/TJ
2024	Hg	1A2e	RECOVERED WOOD	0.000500000	kg/TJ
2024	Hg	1A2e	SAWDUST	0.000500000	kg/TJ
2024	Hg	1A2e	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000500000	kg/TJ
2024	Hg	1A2f	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2024	Hg	1A2f	COAL (S=1.0%)	0.005456297	kg/TJ
2024	Hg	1A2f	FOREST RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A2f	HEAVY FUEL OIL (S<0,1%)	0.000030000	kg/TJ
2024	Hg	1A2f	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2024	Hg	1A2f	INDUSTRIAL WASTE	0.002808769	kg/TJ
2024	Hg	1A2f	OTHER FOSSIL LIQUID	0.000164745	kg/TJ
2024	Hg	1A2f	OTHER FUEL	0.000500000	kg/TJ
2024	Hg	1A2f	OTHER HEAVY DISTILLATES	0.000030000	kg/TJ
2024	Hg	1A2f	PETROLEUM COKE	0.011701409	kg/TJ
2024	Hg	1A2f	PLASTIC WASTE	0.001887305	kg/TJ
2024	Hg	1A2f	RECOVERED WOOD	0.000500000	kg/TJ
2024	Hg	1A2f	RECYCLED AND WASTE OILS	0.000021953	kg/TJ
2024	Hg	1A2f	RUBBER WASTE	0.002808769	kg/TJ
2024	Hg	1A2f	SAWDUST	0.000105679	kg/TJ
2024	Hg	1A2f	SOLID RECOVERED FUEL (SRF)	0.002758060	kg/TJ
2024	Hg	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000105679	kg/TJ
2024	Hg	1A2gviii	ANIMAL-BASED FUELS	0.000575982	kg/TJ
2024	Hg	1A2gviii	BARK	0.000440233	kg/TJ
2024	Hg	1A2gviii	BIOLOGICAL SLURRY	0.000368159	kg/TJ
2024	Hg	1A2gviii	CHIPS FROM ROUNDWOOD	0.000228071	kg/TJ
2024	Hg	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000500000	kg/TJ
2024	Hg	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.000500000	kg/TJ
2024	Hg	1A2gviii	CUTTER CHIPS ETC.	0.000444702	kg/TJ
2024	Hg	1A2gviii	DECIDUOUS TREE	0.000500000	kg/TJ
2024	Hg	1A2gviii	DEMOLITION WOOD	0.000189770	kg/TJ
2024	Hg	1A2gviii	FOREST RESIDUE CHIPS	0.000296393	kg/TJ
2024	Hg	1A2gviii	FOREST RESIDUE CHIPS	0.000500000	kg/TJ

2024	Hg	1A2gviii	HAZARDOUS WASTE	0.001679666	kg/TJ
2024	Hg	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.000030000	kg/TJ
2024	Hg	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000038167	kg/TJ
2024	Hg	1A2gviii	IMPREGNATED WOOD	0.000467477	kg/TJ
2024	Hg	1A2gviii	MANURE	0.000575982	kg/TJ
2024	Hg	1A2gviii	MILLED PEAT	0.001080188	kg/TJ
2024	Hg	1A2gviii	MUNICIPAL WASTE - unsorted	0.000637998	kg/TJ
2024	Hg	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000492977	kg/TJ
2024	Hg	1A2gviii	OTHER HEAVY DISTILLATES	0.000029457	kg/TJ
2024	Hg	1A2gviii	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Hg	1A2gviii	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Hg	1A2gviii	OTHER WOOD RESIDUE	0.000491734	kg/TJ
2024	Hg	1A2gviii	PLASTIC WASTE	0.000524172	kg/TJ
2024	Hg	1A2gviii	RECOVERED WOOD	0.000327565	kg/TJ
2024	Hg	1A2gviii	RECYCLED AND WASTE OILS	0.000605746	kg/TJ
2024	Hg	1A2gviii	SAWDUST	0.000270352	kg/TJ
2024	Hg	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000500000	kg/TJ
2024	Hg	1A2gviii	SOD PEAT	0.001833483	kg/TJ
2024	Hg	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000227894	kg/TJ
2024	Hg	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000492757	kg/TJ
2024	Hg	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000461766	kg/TJ
2024	Hg	1A2gviii	WOOD RESIDUE CHIPS	0.000473840	kg/TJ
2024	Hg	1A2gviii	WOOD STUMP CHIPS	0.000183799	kg/TJ
2024	Hg	1A3bi	DIESEL OIL (S=001%)	0.000142180	kg/TJ
2024	Hg	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000223980	kg/TJ
2024	Hg	1A3bi	NATURAL GAS	0.000039694	kg/TJ
2024	Hg	1A3bii	DIESEL OIL (S=001%)	0.000142418	kg/TJ
2024	Hg	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000162586	kg/TJ
2024	Hg	1A3biii	DIESEL OIL (S=001%)	0.000142418	kg/TJ
2024	Hg	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000083865	kg/TJ
2024	Hg	1A3biv	DIESEL OIL (S=001%)	0.000142418	kg/TJ
2024	Hg	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000233055	kg/TJ
2024	Hg	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000702820	kg/TJ
2024	Hg	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000475059	kg/TJ
2024	Hg	1A4ai	FOREST WOODFUEL	0.000500000	kg/TJ
2024	Hg	1A4ai	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2024	Hg	1A4ai	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A4bi	FOREST WOODFUEL	0.000500000	kg/TJ
2024	Hg	1A4bi	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A4ci	ANIMAL-BASED FUELS	0.000500000	kg/TJ
2024	Hg	1A4ci	CHIPS FROM ROUNDWOOD	0.000500000	kg/TJ
2024	Hg	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.000500000	kg/TJ
2024	Hg	1A4ci	FOREST RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A4ci	FOREST WOODFUEL	0.000500000	kg/TJ
2024	Hg	1A4ci	HEAVY FUEL OIL (S<1%)	0.000030000	kg/TJ
2024	Hg	1A4ci	MILLED PEAT	0.001300000	kg/TJ
2024	Hg	1A4ci	OTHER NON-FOSSIL SOLID	0.000500000	kg/TJ
2024	Hg	1A4ci	RECOVERED WOOD	0.000500000	kg/TJ
2024	Hg	1A4ci	SOD PEAT	0.002600000	kg/TJ
2024	Hg	1A4ci	WOOD RESIDUE CHIPS	0.000500000	kg/TJ
2024	Hg	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000730141	kg/TJ
2024	Hg	1A5a	FOREST WOODFUEL	0.000500000	kg/TJ
2024	Hg	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000088744	kg/TJ
2024	Hg	1A5a	OTHER PETROLEUM PRODUCTS	0.000030000	kg/TJ

As Implied emission factors in Finnish air pollutant inventory for 2024

2024	As	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000092718	kg/TJ
2024	As	1A1a	ANIMAL-BASED FUELS	0.000083481	kg/TJ
2024	As	1A1a	ANTHRACITE	0.000765718	kg/TJ
2024	As	1A1a	ASPHALTENE	0.001743656	kg/TJ
2024	As	1A1a	BARK	0.000112101	kg/TJ
2024	As	1A1a	BIO PELLETS (NON-WOOD)	0.000100000	kg/TJ
2024	As	1A1a	BIOLOGICAL SLURRY	0.000100000	kg/TJ
2024	As	1A1a	CHIPS FROM ROUNDWOOD	0.000120706	kg/TJ
2024	As	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000359850	kg/TJ
2024	As	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000673474	kg/TJ
2024	As	1A1a	COAL (S=1.0%)	0.000861349	kg/TJ
2024	As	1A1a	CUTTER CHIPS ETC.	0.000099009	kg/TJ
2024	As	1A1a	DEINKING WASTE	0.000163115	kg/TJ
2024	As	1A1a	DEMOLITION WOOD	0.000071151	kg/TJ
2024	As	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000100000	kg/TJ
2024	As	1A1a	FOREST RESIDUE CHIPS	0.000670698	kg/TJ
2024	As	1A1a	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.001801901	kg/TJ
2024	As	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000699829	kg/TJ
2024	As	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000022044	kg/TJ
2024	As	1A1a	HEAVY FUEL OIL (S<1%)	0.000788607	kg/TJ
2024	As	1A1a	IMPREGNATED WOOD	0.000124132	kg/TJ
2024	As	1A1a	INDUSTRIAL WASTE	0.000094906	kg/TJ
2024	As	1A1a	MILLED PEAT	0.008902832	kg/TJ
2024	As	1A1a	MUNICIPAL WASTE - unsorted	0.000192288	kg/TJ
2024	As	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000100051	kg/TJ
2024	As	1A1a	OTHER FOSSIL SOLID	0.005706885	kg/TJ
2024	As	1A1a	OTHER NON-FOSSIL SOLID	0.000096020	kg/TJ
2024	As	1A1a	OTHER NON-FOSSIL SOLID	0.000222418	kg/TJ
2024	As	1A1a	OTHER WASTE	0.000406963	kg/TJ
2024	As	1A1a	OTHER WOOD RESIDUE	0.001292827	kg/TJ
2024	As	1A1a	PAPER	0.000094912	kg/TJ
2024	As	1A1a	PLASTIC WASTE	0.000004992	kg/TJ
2024	As	1A1a	RECOVERED FUEL (REF 2)	0.001000000	kg/TJ
2024	As	1A1a	RECOVERED WOOD	0.001322942	kg/TJ
2024	As	1A1a	RECYCLED AND WASTE OILS	0.000848158	kg/TJ
2024	As	1A1a	SAWDUST	0.000104097	kg/TJ
2024	As	1A1a	SOD PEAT	0.080435040	kg/TJ
2024	As	1A1a	SOLID RECOVERED FUEL (SRF)	0.001843430	kg/TJ
2024	As	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000285053	kg/TJ
2024	As	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000237998	kg/TJ
2024	As	1A1a	WOOD RESIDUE CHIPS	0.000539093	kg/TJ
2024	As	1A1a	WOOD STUMP CHIPS	0.000475584	kg/TJ
2024	As	1A1b	PETROLEUM COKE	0.130000000	kg/TJ
2024	As	1A2a	WOOD RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A2b	HEAVY FUEL OIL (S<1%)	0.000647908	kg/TJ
2024	As	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.002000000	kg/TJ
2024	As	1A2c	HEAVY FUEL OIL (S<0,1%)	0.000369727	kg/TJ
2024	As	1A2c	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2024	As	1A2c	OTHER FUEL	0.000100000	kg/TJ
2024	As	1A2c	OTHER NON-FOSSIL SOLID	0.002037490	kg/TJ
2024	As	1A2c	OTHER WASTE	0.000100000	kg/TJ
2024	As	1A2c	SULPHUR CONCENTRATE	0.000012821	kg/TJ
2024	As	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001000000	kg/TJ
2024	As	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000124242	kg/TJ

2024	As	1A2d	ANIMAL-BASED FUELS	0.000007347	kg/TJ
2024	As	1A2d	BARK	0.000114859	kg/TJ
2024	As	1A2d	BIOLOGICAL SLURRY	0.000070112	kg/TJ
2024	As	1A2d	BLACK LIQUOR	0.000886436	kg/TJ
2024	As	1A2d	CHIPS FROM ROUNDWOOD	0.000120987	kg/TJ
2024	As	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000271042	kg/TJ
2024	As	1A2d	COAL (S=1.0%)	0.000974718	kg/TJ
2024	As	1A2d	CUTTER CHIPS ETC.	0.000057801	kg/TJ
2024	As	1A2d	DEMOLITION WOOD	0.000007347	kg/TJ
2024	As	1A2d	FOREST RESIDUE CHIPS	0.000707346	kg/TJ
2024	As	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000789301	kg/TJ
2024	As	1A2d	HEAVY FUEL OIL (S<1%)	0.000355097	kg/TJ
2024	As	1A2d	IMPREGNATED WOOD	0.000007347	kg/TJ
2024	As	1A2d	INDUSTRIAL WASTE	0.000184167	kg/TJ
2024	As	1A2d	MILLED PEAT	0.000577358	kg/TJ
2024	As	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000100000	kg/TJ
2024	As	1A2d	OTHER FUEL	0.000260902	kg/TJ
2024	As	1A2d	OTHER WOOD RESIDUE	0.001000000	kg/TJ
2024	As	1A2d	PAPER	0.000053734	kg/TJ
2024	As	1A2d	PLASTIC WASTE	0.000012803	kg/TJ
2024	As	1A2d	RECOVERED WOOD	0.000019123	kg/TJ
2024	As	1A2d	RECYCLED AND WASTE OILS	0.000073471	kg/TJ
2024	As	1A2d	SAWDUST	0.000123279	kg/TJ
2024	As	1A2d	SOD PEAT	0.081000000	kg/TJ
2024	As	1A2d	SOLID RECOVERED FUEL (SRF)	0.000322826	kg/TJ
2024	As	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000030232	kg/TJ
2024	As	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001000000	kg/TJ
2024	As	1A2d	WOOD RESIDUE CHIPS	0.000153244	kg/TJ
2024	As	1A2d	WOOD STUMP CHIPS	0.000007347	kg/TJ
2024	As	1A2e	ANIMAL FATS AND OILS	0.000100000	kg/TJ
2024	As	1A2e	ANIMAL-BASED FUELS	0.001000000	kg/TJ
2024	As	1A2e	BARK	0.000100000	kg/TJ
2024	As	1A2e	BIO-FUEL OIL	0.002000000	kg/TJ
2024	As	1A2e	CHIPS FROM ROUNDWOOD	0.000100000	kg/TJ
2024	As	1A2e	COKE (S=1.0%)	0.130000141	kg/TJ
2024	As	1A2e	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A2e	HEAVY FUEL OIL (S<1%)	0.001077587	kg/TJ
2024	As	1A2e	MILLED PEAT	0.046072399	kg/TJ
2024	As	1A2e	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2024	As	1A2e	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2024	As	1A2e	PEAT PELLETS AND BRIQUETTES	0.000500000	kg/TJ
2024	As	1A2e	RECOVERED WOOD	0.000100000	kg/TJ
2024	As	1A2e	SAWDUST	0.000108332	kg/TJ
2024	As	1A2e	SOD PEAT	0.081000000	kg/TJ
2024	As	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.001000000	kg/TJ
2024	As	1A2f	CHIPS FROM ROUNDWOOD	0.001000000	kg/TJ
2024	As	1A2f	COAL (S=1.0%)	0.096377743	kg/TJ
2024	As	1A2f	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A2f	HEAVY FUEL OIL (S<1%)	0.000442365	kg/TJ
2024	As	1A2f	INDUSTRIAL WASTE	0.000116013	kg/TJ
2024	As	1A2f	OTHER FOSSIL LIQUID	0.000031175	kg/TJ
2024	As	1A2f	OTHER FUEL	0.000100000	kg/TJ
2024	As	1A2f	OTHER HEAVY DISTILLATES	0.002000000	kg/TJ
2024	As	1A2f	PETROLEUM COKE	0.001250398	kg/TJ
2024	As	1A2f	PLASTIC WASTE	0.000000926	kg/TJ
2024	As	1A2f	RECOVERED WOOD	0.000100000	kg/TJ

2024	As	1A2f	RECYCLED AND WASTE OILS	0.000913966	kg/TJ
2024	As	1A2f	RUBBER WASTE	0.000011601	kg/TJ
2024	As	1A2f	SAWDUST	0.000074706	kg/TJ
2024	As	1A2f	SOLID RECOVERED FUEL (SRF)	0.000035194	kg/TJ
2024	As	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000747059	kg/TJ
2024	As	1A2gviii	ANIMAL-BASED FUELS	0.001000000	kg/TJ
2024	As	1A2gviii	BARK	0.000234863	kg/TJ
2024	As	1A2gviii	BIOLOGICAL SLURRY	0.000100000	kg/TJ
2024	As	1A2gviii	CHIPS FROM ROUNDWOOD	0.000063627	kg/TJ
2024	As	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.001000000	kg/TJ
2024	As	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.001000000	kg/TJ
2024	As	1A2gviii	CUTTER CHIPS ETC.	0.000161294	kg/TJ
2024	As	1A2gviii	DECIDUOUS TREE	0.001000000	kg/TJ
2024	As	1A2gviii	DEMOLITION WOOD	0.000010648	kg/TJ
2024	As	1A2gviii	FOREST RESIDUE CHIPS	0.000539248	kg/TJ
2024	As	1A2gviii	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A2gviii	HAZARDOUS WASTE	0.000370039	kg/TJ
2024	As	1A2gviii	HEAVY FUEL OIL (S<1%)	0.001936440	kg/TJ
2024	As	1A2gviii	IMPREGNATED WOOD	0.000274884	kg/TJ
2024	As	1A2gviii	MANURE	0.001000000	kg/TJ
2024	As	1A2gviii	MILLED PEAT	0.001475844	kg/TJ
2024	As	1A2gviii	MUNICIPAL WASTE - unsorted	0.000124920	kg/TJ
2024	As	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000097953	kg/TJ
2024	As	1A2gviii	OTHER HEAVY DISTILLATES	0.000950951	kg/TJ
2024	As	1A2gviii	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2024	As	1A2gviii	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2024	As	1A2gviii	OTHER WOOD RESIDUE	0.000943574	kg/TJ
2024	As	1A2gviii	PLASTIC WASTE	0.000238642	kg/TJ
2024	As	1A2gviii	RECOVERED WOOD	0.000205117	kg/TJ
2024	As	1A2gviii	RECYCLED AND WASTE OILS	0.000567128	kg/TJ
2024	As	1A2gviii	SAWDUST	0.000042423	kg/TJ
2024	As	1A2gviii	SAWDUST AND CUTTER CHIPS	0.001000000	kg/TJ
2024	As	1A2gviii	SOD PEAT	0.029845209	kg/TJ
2024	As	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000206786	kg/TJ
2024	As	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000142028	kg/TJ
2024	As	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000888545	kg/TJ
2024	As	1A2gviii	WOOD RESIDUE CHIPS	0.000588153	kg/TJ
2024	As	1A2gviii	WOOD STUMP CHIPS	0.000078246	kg/TJ
2024	As	1A3bi	DIESEL OIL (S=001%)	0.000002683	kg/TJ
2024	As	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000007723	kg/TJ
2024	As	1A3bi	NATURAL GAS	0.000001369	kg/TJ
2024	As	1A3bii	DIESEL OIL (S=001%)	0.000002687	kg/TJ
2024	As	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000005606	kg/TJ
2024	As	1A3biii	DIESEL OIL (S=001%)	0.000002687	kg/TJ
2024	As	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000002892	kg/TJ
2024	As	1A3biv	DIESEL OIL (S=001%)	0.000002687	kg/TJ
2024	As	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000008036	kg/TJ
2024	As	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000937093	kg/TJ
2024	As	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.016152019	kg/TJ
2024	As	1A4ai	FOREST WOODFUEL	0.001000000	kg/TJ
2024	As	1A4ai	HEAVY FUEL OIL (S<1%)	0.002000000	kg/TJ
2024	As	1A4ai	SOD PEAT	0.081000000	kg/TJ
2024	As	1A4bi	FOREST WOODFUEL	0.001000000	kg/TJ
2024	As	1A4bi	SOD PEAT	0.081000000	kg/TJ
2024	As	1A4ci	ANIMAL-BASED FUELS	0.001000000	kg/TJ
2024	As	1A4ci	CHIPS FROM ROUNDWOOD	0.000100000	kg/TJ

2024	As	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.001000000	kg/TJ
2024	As	1A4ci	FOREST RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A4ci	FOREST WOODFUEL	0.001000000	kg/TJ
2024	As	1A4ci	HEAVY FUEL OIL (S<1%)	0.001768807	kg/TJ
2024	As	1A4ci	MILLED PEAT	0.081000000	kg/TJ
2024	As	1A4ci	OTHER NON-FOSSIL SOLID	0.000100000	kg/TJ
2024	As	1A4ci	RECOVERED WOOD	0.000100000	kg/TJ
2024	As	1A4ci	SOD PEAT	0.081000000	kg/TJ
2024	As	1A4ci	WOOD RESIDUE CHIPS	0.001000000	kg/TJ
2024	As	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000973522	kg/TJ
2024	As	1A5a	FOREST WOODFUEL	0.001000000	kg/TJ
2024	As	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000118326	kg/TJ
2024	As	1A5a	OTHER PETROLEUM PRODUCTS	0.002000000	kg/TJ

Cr Implied emission factors in Finnish air pollutant inventory for 2024

2024	Cr	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.001063640	kg/TJ
2024	Cr	1A1a	ANIMAL-BASED FUELS	0.000155261	kg/TJ
2024	Cr	1A1a	ANTHRACITE	0.001276196	kg/TJ
2024	Cr	1A1a	ASPHALTENE	0.000874012	kg/TJ
2024	Cr	1A1a	BARK	0.002250488	kg/TJ
2024	Cr	1A1a	BIO PELLETS (NON-WOOD)	0.002000000	kg/TJ
2024	Cr	1A1a	BIOLOGICAL SLURRY	0.002000000	kg/TJ
2024	Cr	1A1a	CHIPS FROM ROUNDWOOD	0.002952112	kg/TJ
2024	Cr	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.010842355	kg/TJ
2024	Cr	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.020321274	kg/TJ
2024	Cr	1A1a	COAL (S=1.0%)	0.001604660	kg/TJ
2024	Cr	1A1a	CUTTER CHIPS ETC.	0.001428864	kg/TJ
2024	Cr	1A1a	DEINKING WASTE	0.004314204	kg/TJ
2024	Cr	1A1a	DEMOLITION WOOD	0.000291583	kg/TJ
2024	Cr	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.002000000	kg/TJ
2024	Cr	1A1a	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A1a	FOREST RESIDUE CHIPS	0.009807763	kg/TJ
2024	Cr	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000910403	kg/TJ
2024	Cr	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000880534	kg/TJ
2024	Cr	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000494586	kg/TJ
2024	Cr	1A1a	HEAVY FUEL OIL (S<1%)	0.000431871	kg/TJ
2024	Cr	1A1a	IMPREGNATED WOOD	0.001516708	kg/TJ
2024	Cr	1A1a	INDUSTRIAL WASTE	0.004275975	kg/TJ
2024	Cr	1A1a	MILLED PEAT	0.008551817	kg/TJ
2024	Cr	1A1a	MUNICIPAL WASTE - unsorted	0.006188998	kg/TJ
2024	Cr	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001999894	kg/TJ
2024	Cr	1A1a	OTHER FOSSIL SOLID	0.000286600	kg/TJ
2024	Cr	1A1a	OTHER NON-FOSSIL SOLID	0.001916598	kg/TJ
2024	Cr	1A1a	OTHER NON-FOSSIL SOLID	0.001796173	kg/TJ
2024	Cr	1A1a	OTHER WASTE	0.001804826	kg/TJ
2024	Cr	1A1a	OTHER WOOD RESIDUE	0.027570442	kg/TJ
2024	Cr	1A1a	PAPER	0.001431814	kg/TJ
2024	Cr	1A1a	PLASTIC WASTE	0.000600000	kg/TJ
2024	Cr	1A1a	RECOVERED FUEL (REF 2)	0.035000000	kg/TJ
2024	Cr	1A1a	RECOVERED WOOD	0.011251282	kg/TJ
2024	Cr	1A1a	RECYCLED AND WASTE OILS	0.000076090	kg/TJ
2024	Cr	1A1a	SAWDUST	0.002408846	kg/TJ
2024	Cr	1A1a	SOD PEAT	0.139010887	kg/TJ
2024	Cr	1A1a	SOLID RECOVERED FUEL (SRF)	0.019124094	kg/TJ
2024	Cr	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.004425354	kg/TJ

2024	Cr	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.004512580	kg/TJ
2024	Cr	1A1a	WOOD RESIDUE CHIPS	0.010535293	kg/TJ
2024	Cr	1A1a	WOOD STUMP CHIPS	0.014772484	kg/TJ
2024	Cr	1A1b	PETROLEUM COKE	1.000000000	kg/TJ
2024	Cr	1A2a	WOOD RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A2b	COAL (S=1.0%)	1.000001169	kg/TJ
2024	Cr	1A2b	COKE (S=1.0%)	1.000000254	kg/TJ
2024	Cr	1A2b	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2024	Cr	1A2b	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2024	Cr	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.001000000	kg/TJ
2024	Cr	1A2c	HEAVY FUEL OIL (S<0,1%)	0.000978144	kg/TJ
2024	Cr	1A2c	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2024	Cr	1A2c	OTHER FUEL	0.002000000	kg/TJ
2024	Cr	1A2c	OTHER NON-FOSSIL SOLID	0.207008965	kg/TJ
2024	Cr	1A2c	OTHER WASTE	0.002000000	kg/TJ
2024	Cr	1A2c	SULPHUR CONCENTRATE	0.000600000	kg/TJ
2024	Cr	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.035000000	kg/TJ
2024	Cr	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.002114619	kg/TJ
2024	Cr	1A2d	ANIMAL-BASED FUELS	0.000040482	kg/TJ
2024	Cr	1A2d	BARK	0.001342724	kg/TJ
2024	Cr	1A2d	BIOLOGICAL SLURRY	0.000420859	kg/TJ
2024	Cr	1A2d	BLACK LIQUOR	0.000542809	kg/TJ
2024	Cr	1A2d	CHIPS FROM ROUNDWOOD	0.002761331	kg/TJ
2024	Cr	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.010486693	kg/TJ
2024	Cr	1A2d	COAL (S=1.0%)	0.001534055	kg/TJ
2024	Cr	1A2d	CUTTER CHIPS ETC.	0.001369793	kg/TJ
2024	Cr	1A2d	DEMOLITION WOOD	0.000040482	kg/TJ
2024	Cr	1A2d	FOREST RESIDUE CHIPS	0.003622899	kg/TJ
2024	Cr	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000503017	kg/TJ
2024	Cr	1A2d	HEAVY FUEL OIL (S<0,5%)	0.001000000	kg/TJ
2024	Cr	1A2d	HEAVY FUEL OIL (S<1%)	0.000494049	kg/TJ
2024	Cr	1A2d	IMPREGNATED WOOD	0.000040482	kg/TJ
2024	Cr	1A2d	INDUSTRIAL WASTE	0.004587848	kg/TJ
2024	Cr	1A2d	MILLED PEAT	0.001013905	kg/TJ
2024	Cr	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001846729	kg/TJ
2024	Cr	1A2d	OTHER FUEL	0.004272684	kg/TJ
2024	Cr	1A2d	OTHER WOOD RESIDUE	0.035000000	kg/TJ
2024	Cr	1A2d	PAPER	0.005984558	kg/TJ
2024	Cr	1A2d	PLASTIC WASTE	0.000637208	kg/TJ
2024	Cr	1A2d	RECOVERED WOOD	0.002236906	kg/TJ
2024	Cr	1A2d	RECYCLED AND WASTE OILS	0.000010120	kg/TJ
2024	Cr	1A2d	SAWDUST	0.002975578	kg/TJ
2024	Cr	1A2d	SOD PEAT	0.140000000	kg/TJ
2024	Cr	1A2d	SOLID RECOVERED FUEL (SRF)	0.005501050	kg/TJ
2024	Cr	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003713204	kg/TJ
2024	Cr	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.005555133	kg/TJ
2024	Cr	1A2d	WOOD RESIDUE CHIPS	0.005511265	kg/TJ
2024	Cr	1A2d	WOOD STUMP CHIPS	0.000040482	kg/TJ
2024	Cr	1A2e	ANIMAL FATS AND OILS	0.002000000	kg/TJ
2024	Cr	1A2e	ANIMAL-BASED FUELS	0.035000000	kg/TJ
2024	Cr	1A2e	BARK	0.002000001	kg/TJ
2024	Cr	1A2e	BIO-FUEL OIL	0.001000000	kg/TJ
2024	Cr	1A2e	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2024	Cr	1A2e	COKE (S=1.0%)	0.999999322	kg/TJ
2024	Cr	1A2e	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A2e	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ

2024	Cr	1A2e	MILLED PEAT	0.079603451	kg/TJ
2024	Cr	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Cr	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Cr	1A2e	PEAT PELLETS AND BRIQUETTES	0.000800000	kg/TJ
2024	Cr	1A2e	RECOVERED WOOD	0.001999998	kg/TJ
2024	Cr	1A2e	SAWDUST	0.002305514	kg/TJ
2024	Cr	1A2e	SOD PEAT	0.140000000	kg/TJ
2024	Cr	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.035000000	kg/TJ
2024	Cr	1A2f	CHIPS FROM ROUNDWOOD	0.035000000	kg/TJ
2024	Cr	1A2f	COAL (S=1.0%)	0.738124628	kg/TJ
2024	Cr	1A2f	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A2f	HEAVY FUEL OIL (S<0,1%)	0.001000000	kg/TJ
2024	Cr	1A2f	HEAVY FUEL OIL (S<1%)	0.000944167	kg/TJ
2024	Cr	1A2f	INDUSTRIAL WASTE	0.008832009	kg/TJ
2024	Cr	1A2f	OTHER FOSSIL LIQUID	0.000007087	kg/TJ
2024	Cr	1A2f	OTHER FUEL	0.002000000	kg/TJ
2024	Cr	1A2f	OTHER HEAVY DISTILLATES	0.001000000	kg/TJ
2024	Cr	1A2f	PETROLEUM COKE	0.003056470	kg/TJ
2024	Cr	1A2f	PLASTIC WASTE	0.000087243	kg/TJ
2024	Cr	1A2f	RECOVERED WOOD	0.002000000	kg/TJ
2024	Cr	1A2f	RECYCLED AND WASTE OILS	0.000333495	kg/TJ
2024	Cr	1A2f	RUBBER WASTE	0.000504686	kg/TJ
2024	Cr	1A2f	SAWDUST	0.000041899	kg/TJ
2024	Cr	1A2f	SOLID RECOVERED FUEL (SRF)	0.001923971	kg/TJ
2024	Cr	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000733231	kg/TJ
2024	Cr	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A2gvii	LIQUID GAS	0.001079914	kg/TJ
2024	Cr	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.001318545	kg/TJ
2024	Cr	1A2gviii	ANIMAL-BASED FUELS	0.035000000	kg/TJ
2024	Cr	1A2gviii	BARK	0.007264872	kg/TJ
2024	Cr	1A2gviii	BIOLOGICAL SLURRY	0.002000000	kg/TJ
2024	Cr	1A2gviii	CHIPS FROM ROUNDWOOD	0.001152471	kg/TJ
2024	Cr	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.035000000	kg/TJ
2024	Cr	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.035000000	kg/TJ
2024	Cr	1A2gviii	CUTTER CHIPS ETC.	0.004523866	kg/TJ
2024	Cr	1A2gviii	DECIDUOUS TREE	0.035000000	kg/TJ
2024	Cr	1A2gviii	DEMOLITION WOOD	0.000353237	kg/TJ
2024	Cr	1A2gviii	FOREST RESIDUE CHIPS	0.012037898	kg/TJ
2024	Cr	1A2gviii	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A2gviii	HAZARDOUS WASTE	0.017493934	kg/TJ
2024	Cr	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.001000000	kg/TJ
2024	Cr	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000972883	kg/TJ
2024	Cr	1A2gviii	IMPREGNATED WOOD	0.022762553	kg/TJ
2024	Cr	1A2gviii	MANURE	0.035000000	kg/TJ
2024	Cr	1A2gviii	MILLED PEAT	0.000725345	kg/TJ
2024	Cr	1A2gviii	MUNICIPAL WASTE - unsorted	0.005779597	kg/TJ
2024	Cr	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001961800	kg/TJ
2024	Cr	1A2gviii	OTHER HEAVY DISTILLATES	0.000480308	kg/TJ
2024	Cr	1A2gviii	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Cr	1A2gviii	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Cr	1A2gviii	OTHER WOOD RESIDUE	0.032931063	kg/TJ
2024	Cr	1A2gviii	PLASTIC WASTE	0.013864096	kg/TJ
2024	Cr	1A2gviii	RECOVERED WOOD	0.006703697	kg/TJ
2024	Cr	1A2gviii	RECYCLED AND WASTE OILS	0.000315323	kg/TJ
2024	Cr	1A2gviii	SAWDUST	0.000927068	kg/TJ
2024	Cr	1A2gviii	SAWDUST AND CUTTER CHIPS	0.035000000	kg/TJ

2024	Cr	1A2gviii	SOD PEAT	0.051466744	kg/TJ
2024	Cr	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.009101227	kg/TJ
2024	Cr	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003493536	kg/TJ
2024	Cr	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.031360952	kg/TJ
2024	Cr	1A2gviii	WOOD RESIDUE CHIPS	0.020177142	kg/TJ
2024	Cr	1A2gviii	WOOD STUMP CHIPS	0.004904347	kg/TJ
2024	Cr	1A3bi	DIESEL OIL (S=001%)	0.001807478	kg/TJ
2024	Cr	1A3bi	MOTOR GASOLINE (S=0.001%)	0.001567412	kg/TJ
2024	Cr	1A3bi	NATURAL GAS	0.001788982	kg/TJ
2024	Cr	1A3bii	DIESEL OIL (S=001%)	0.001404946	kg/TJ
2024	Cr	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000876843	kg/TJ
2024	Cr	1A3biii	DIESEL OIL (S=001%)	0.000539134	kg/TJ
2024	Cr	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000269572	kg/TJ
2024	Cr	1A3biii	NATURAL GAS	0.000511546	kg/TJ
2024	Cr	1A3biv	DIESEL OIL (S=001%)	0.002277186	kg/TJ
2024	Cr	1A3biv	MOTOR GASOLINE (S=0.001%)	0.003163080	kg/TJ
2024	Cr	1A3c	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A3dii	GASOIL (FOR NON-ROAD USE)	0.001171366	kg/TJ
2024	Cr	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.017102138	kg/TJ
2024	Cr	1A4ai	FOREST WOODFUEL	0.035000000	kg/TJ
2024	Cr	1A4ai	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2024	Cr	1A4ai	SOD PEAT	0.140000000	kg/TJ
2024	Cr	1A4aii	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A4aii	MOTOR GASOLINE (S=0.001%)	0.001318545	kg/TJ
2024	Cr	1A4bi	FOREST WOODFUEL	0.035000000	kg/TJ
2024	Cr	1A4bi	SOD PEAT	0.140000000	kg/TJ
2024	Cr	1A4bii	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A4bii	MOTOR GASOLINE (S=0.001%)	0.001318545	kg/TJ
2024	Cr	1A4ci	ANIMAL-BASED FUELS	0.035000000	kg/TJ
2024	Cr	1A4ci	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2024	Cr	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.035000000	kg/TJ
2024	Cr	1A4ci	FOREST RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A4ci	FOREST WOODFUEL	0.035000000	kg/TJ
2024	Cr	1A4ci	HEAVY FUEL OIL (S<1%)	0.001000000	kg/TJ
2024	Cr	1A4ci	MILLED PEAT	0.000800000	kg/TJ
2024	Cr	1A4ci	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Cr	1A4ci	RECOVERED WOOD	0.002000000	kg/TJ
2024	Cr	1A4ci	SOD PEAT	0.140000000	kg/TJ
2024	Cr	1A4ci	WOOD RESIDUE CHIPS	0.035000000	kg/TJ
2024	Cr	1A4cii	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A4cii	MOTOR GASOLINE (S=0.001%)	0.001318545	kg/TJ
2024	Cr	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.001216902	kg/TJ
2024	Cr	1A5a	FOREST WOODFUEL	0.035000000	kg/TJ
2024	Cr	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000167649	kg/TJ
2024	Cr	1A5a	OTHER PETROLEUM PRODUCTS	0.001000000	kg/TJ

Cu Implied emission factors in Finnish air pollutant inventory for 2024

2024	Cu	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.002560025	kg/TJ
2024	Cu	1A1a	ANIMAL-BASED FUELS	0.000120548	kg/TJ
2024	Cu	1A1a	ANTHRACITE	0.001403816	kg/TJ
2024	Cu	1A1a	ASPHALTENE	0.002187393	kg/TJ
2024	Cu	1A1a	BARK	0.004830054	kg/TJ
2024	Cu	1A1a	BIO PELLETS (NON-WOOD)	0.005000000	kg/TJ
2024	Cu	1A1a	BIOLOGICAL SLURRY	0.005000000	kg/TJ
2024	Cu	1A1a	CHIPS FROM ROUNDWOOD	0.006022340	kg/TJ

2024	Cu	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.016215435	kg/TJ
2024	Cu	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.033593084	kg/TJ
2024	Cu	1A1a	COAL (S=1.0%)	0.001362073	kg/TJ
2024	Cu	1A1a	CUTTER CHIPS ETC.	0.003489315	kg/TJ
2024	Cu	1A1a	DEINKING WASTE	0.008225855	kg/TJ
2024	Cu	1A1a	DEMOLITION WOOD	0.000682004	kg/TJ
2024	Cu	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.005000000	kg/TJ
2024	Cu	1A1a	FOREST RESIDUE CHIPS	0.051000000	kg/TJ
2024	Cu	1A1a	FOREST RESIDUE CHIPS	0.017519216	kg/TJ
2024	Cu	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.002293680	kg/TJ
2024	Cu	1A1a	HEAVY FUEL OIL (S<0,1%)	0.002189086	kg/TJ
2024	Cu	1A1a	HEAVY FUEL OIL (S<0,5%)	0.002413956	kg/TJ
2024	Cu	1A1a	HEAVY FUEL OIL (S<1%)	0.001125489	kg/TJ
2024	Cu	1A1a	IMPREGNATED WOOD	0.003594851	kg/TJ
2024	Cu	1A1a	INDUSTRIAL WASTE	0.012953289	kg/TJ
2024	Cu	1A1a	MILLED PEAT	0.014062379	kg/TJ
2024	Cu	1A1a	MUNICIPAL WASTE - unsorted	0.009692433	kg/TJ
2024	Cu	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.004999504	kg/TJ
2024	Cu	1A1a	OTHER FOSSIL SOLID	0.000211347	kg/TJ
2024	Cu	1A1a	OTHER NON-FOSSIL SOLID	0.004840493	kg/TJ
2024	Cu	1A1a	OTHER NON-FOSSIL SOLID	0.003878240	kg/TJ
2024	Cu	1A1a	OTHER WASTE	0.000139027	kg/TJ
2024	Cu	1A1a	OTHER WOOD RESIDUE	0.036878714	kg/TJ
2024	Cu	1A1a	PAPER	0.003497111	kg/TJ
2024	Cu	1A1a	PLASTIC WASTE	0.002250005	kg/TJ
2024	Cu	1A1a	RECOVERED FUEL (REF 2)	0.051000000	kg/TJ
2024	Cu	1A1a	RECOVERED WOOD	0.002681683	kg/TJ
2024	Cu	1A1a	RECYCLED AND WASTE OILS	0.000102986	kg/TJ
2024	Cu	1A1a	SAWDUST	0.004848326	kg/TJ
2024	Cu	1A1a	SOD PEAT	0.218487723	kg/TJ
2024	Cu	1A1a	SOLID RECOVERED FUEL (SRF)	0.021393312	kg/TJ
2024	Cu	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.009421514	kg/TJ
2024	Cu	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.011415488	kg/TJ
2024	Cu	1A1a	WOOD RESIDUE CHIPS	0.019768708	kg/TJ
2024	Cu	1A1a	WOOD STUMP CHIPS	0.047843193	kg/TJ
2024	Cu	1A1b	PETROLEUM COKE	0.350000000	kg/TJ
2024	Cu	1A2a	WOOD RESIDUE CHIPS	0.051000000	kg/TJ
2024	Cu	1A2b	HEAVY FUEL OIL (S<1%)	0.000809886	kg/TJ
2024	Cu	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.002500000	kg/TJ
2024	Cu	1A2c	HEAVY FUEL OIL (S<0,1%)	0.002434429	kg/TJ
2024	Cu	1A2c	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2024	Cu	1A2c	OTHER FUEL	0.005000000	kg/TJ
2024	Cu	1A2c	OTHER NON-FOSSIL SOLID	0.145069275	kg/TJ
2024	Cu	1A2c	OTHER WASTE	0.005000000	kg/TJ
2024	Cu	1A2c	SULPHUR CONCENTRATE	0.002250000	kg/TJ
2024	Cu	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.051000000	kg/TJ
2024	Cu	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.003171129	kg/TJ
2024	Cu	1A2d	ANIMAL-BASED FUELS	0.000222393	kg/TJ
2024	Cu	1A2d	BARK	0.003847486	kg/TJ
2024	Cu	1A2d	BIOLOGICAL SLURRY	0.002423385	kg/TJ
2024	Cu	1A2d	CHIPS FROM ROUNDWOOD	0.009030058	kg/TJ
2024	Cu	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.014733906	kg/TJ
2024	Cu	1A2d	COAL (S=1.0%)	0.000351533	kg/TJ
2024	Cu	1A2d	CUTTER CHIPS ETC.	0.003057658	kg/TJ
2024	Cu	1A2d	DEMOLITION WOOD	0.000222393	kg/TJ
2024	Cu	1A2d	FOREST RESIDUE CHIPS	0.002551877	kg/TJ

2024	Cu	1A2d	HEAVY FUEL OIL (S<0,1%)	0.001041208	kg/TJ
2024	Cu	1A2d	HEAVY FUEL OIL (S<0,5%)	0.002500000	kg/TJ
2024	Cu	1A2d	HEAVY FUEL OIL (S<1%)	0.010631986	kg/TJ
2024	Cu	1A2d	IMPREGNATED WOOD	0.000222393	kg/TJ
2024	Cu	1A2d	INDUSTRIAL WASTE	0.012311099	kg/TJ
2024	Cu	1A2d	MILLED PEAT	0.001032045	kg/TJ
2024	Cu	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.004484575	kg/TJ
2024	Cu	1A2d	OTHER FUEL	0.001768068	kg/TJ
2024	Cu	1A2d	OTHER WOOD RESIDUE	0.051000000	kg/TJ
2024	Cu	1A2d	PAPER	0.000506939	kg/TJ
2024	Cu	1A2d	PLASTIC WASTE	0.000448988	kg/TJ
2024	Cu	1A2d	RECOVERED WOOD	0.000804652	kg/TJ
2024	Cu	1A2d	RECYCLED AND WASTE OILS	0.000044479	kg/TJ
2024	Cu	1A2d	SAWDUST	0.042001518	kg/TJ
2024	Cu	1A2d	SOD PEAT	0.220000000	kg/TJ
2024	Cu	1A2d	SOLID RECOVERED FUEL (SRF)	0.012653386	kg/TJ
2024	Cu	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.002364664	kg/TJ
2024	Cu	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.106494203	kg/TJ
2024	Cu	1A2d	WOOD RESIDUE CHIPS	0.008402251	kg/TJ
2024	Cu	1A2d	WOOD STUMP CHIPS	0.000222393	kg/TJ
2024	Cu	1A2e	ANIMAL FATS AND OILS	0.005000000	kg/TJ
2024	Cu	1A2e	ANIMAL-BASED FUELS	0.051000000	kg/TJ
2024	Cu	1A2e	BARK	0.004999993	kg/TJ
2024	Cu	1A2e	BIO-FUEL OIL	0.002500003	kg/TJ
2024	Cu	1A2e	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2024	Cu	1A2e	COKE (S=1.0%)	0.349999992	kg/TJ
2024	Cu	1A2e	FOREST RESIDUE CHIPS	0.023015720	kg/TJ
2024	Cu	1A2e	HEAVY FUEL OIL (S<1%)	0.002318539	kg/TJ
2024	Cu	1A2e	MILLED PEAT	0.125109730	kg/TJ
2024	Cu	1A2e	OTHER NON-FOSSIL SOLID	0.005000003	kg/TJ
2024	Cu	1A2e	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2024	Cu	1A2e	PEAT PELLETS AND BRIQUETTES	0.001300000	kg/TJ
2024	Cu	1A2e	RECOVERED WOOD	0.004999999	kg/TJ
2024	Cu	1A2e	SAWDUST	0.005425870	kg/TJ
2024	Cu	1A2e	SOD PEAT	0.220000000	kg/TJ
2024	Cu	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.051000000	kg/TJ
2024	Cu	1A2f	CHIPS FROM ROUNDWOOD	0.051000000	kg/TJ
2024	Cu	1A2f	COAL (S=1.0%)	0.258326141	kg/TJ
2024	Cu	1A2f	FOREST RESIDUE CHIPS	0.051000000	kg/TJ
2024	Cu	1A2f	HEAVY FUEL OIL (S<0,1%)	0.002500000	kg/TJ
2024	Cu	1A2f	HEAVY FUEL OIL (S<1%)	0.002332502	kg/TJ
2024	Cu	1A2f	INDUSTRIAL WASTE	0.002567206	kg/TJ
2024	Cu	1A2f	OTHER FOSSIL LIQUID	0.000018587	kg/TJ
2024	Cu	1A2f	OTHER FUEL	0.005000000	kg/TJ
2024	Cu	1A2f	OTHER HEAVY DISTILLATES	0.002500000	kg/TJ
2024	Cu	1A2f	PETROLEUM COKE	0.000940998	kg/TJ
2024	Cu	1A2f	PLASTIC WASTE	0.000071169	kg/TJ
2024	Cu	1A2f	RECOVERED WOOD	0.005000000	kg/TJ
2024	Cu	1A2f	RECYCLED AND WASTE OILS	0.000682340	kg/TJ
2024	Cu	1A2f	RUBBER WASTE	0.000251687	kg/TJ
2024	Cu	1A2f	SAWDUST	0.000330383	kg/TJ
2024	Cu	1A2f	SOLID RECOVERED FUEL (SRF)	0.000806361	kg/TJ
2024	Cu	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.003369910	kg/TJ
2024	Cu	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.041374669	kg/TJ
2024	Cu	1A2gvii	LIQUID GAS	0.036717063	kg/TJ
2024	Cu	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.044830523	kg/TJ

2024	Cu	1A2gviii	ANIMAL-BASED FUELS	0.050999989	kg/TJ
2024	Cu	1A2gviii	BARK	0.011744217	kg/TJ
2024	Cu	1A2gviii	BIOLOGICAL SLURRY	0.005000000	kg/TJ
2024	Cu	1A2gviii	CHIPS FROM ROUNDWOOD	0.001471279	kg/TJ
2024	Cu	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.051000000	kg/TJ
2024	Cu	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.051000000	kg/TJ
2024	Cu	1A2gviii	CUTTER CHIPS ETC.	0.007312084	kg/TJ
2024	Cu	1A2gviii	DECIDUOUS TREE	0.051000000	kg/TJ
2024	Cu	1A2gviii	DEMOLITION WOOD	0.000114881	kg/TJ
2024	Cu	1A2gviii	FOREST RESIDUE CHIPS	0.051000000	kg/TJ
2024	Cu	1A2gviii	FOREST RESIDUE CHIPS	0.013700699	kg/TJ
2024	Cu	1A2gviii	HAZARDOUS WASTE	0.001761875	kg/TJ
2024	Cu	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.002500000	kg/TJ
2024	Cu	1A2gviii	HEAVY FUEL OIL (S<1%)	0.002355313	kg/TJ
2024	Cu	1A2gviii	IMPREGNATED WOOD	0.000994330	kg/TJ
2024	Cu	1A2gviii	MANURE	0.051000000	kg/TJ
2024	Cu	1A2gviii	MILLED PEAT	0.001151725	kg/TJ
2024	Cu	1A2gviii	MUNICIPAL WASTE - unsorted	0.000995829	kg/TJ
2024	Cu	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.004891122	kg/TJ
2024	Cu	1A2gviii	OTHER HEAVY DISTILLATES	0.000969056	kg/TJ
2024	Cu	1A2gviii	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2024	Cu	1A2gviii	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2024	Cu	1A2gviii	OTHER WOOD RESIDUE	0.048116014	kg/TJ
2024	Cu	1A2gviii	PLASTIC WASTE	0.000658059	kg/TJ
2024	Cu	1A2gviii	RECOVERED WOOD	0.010275044	kg/TJ
2024	Cu	1A2gviii	RECYCLED AND WASTE OILS	0.000157608	kg/TJ
2024	Cu	1A2gviii	SAWDUST	0.001948892	kg/TJ
2024	Cu	1A2gviii	SAWDUST AND CUTTER CHIPS	0.051000000	kg/TJ
2024	Cu	1A2gviii	SOD PEAT	0.080978450	kg/TJ
2024	Cu	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.007972344	kg/TJ
2024	Cu	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.006608692	kg/TJ
2024	Cu	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.044954163	kg/TJ
2024	Cu	1A2gviii	WOOD RESIDUE CHIPS	0.029996179	kg/TJ
2024	Cu	1A2gviii	WOOD STUMP CHIPS	0.000999724	kg/TJ
2024	Cu	1A3bi	DIESEL OIL (S=001%)	0.064153685	kg/TJ
2024	Cu	1A3bi	MOTOR GASOLINE (S=0.001%)	0.057056537	kg/TJ
2024	Cu	1A3bi	NATURAL GAS	0.071346856	kg/TJ
2024	Cu	1A3bii	DIESEL OIL (S=001%)	0.047827564	kg/TJ
2024	Cu	1A3bii	MOTOR GASOLINE (S=0.001%)	0.030843792	kg/TJ
2024	Cu	1A3biii	DIESEL OIL (S=001%)	0.012744129	kg/TJ
2024	Cu	1A3biii	MOTOR GASOLINE (S=0.001%)	0.008505849	kg/TJ
2024	Cu	1A3biii	NATURAL GAS	0.020728258	kg/TJ
2024	Cu	1A3biv	DIESEL OIL (S=001%)	0.083171447	kg/TJ
2024	Cu	1A3biv	MOTOR GASOLINE (S=0.001%)	0.121452737	kg/TJ
2024	Cu	1A3c	GASOIL (FOR NON-ROAD USE)	0.041374669	kg/TJ
2024	Cu	1A3dii	GASOIL (FOR NON-ROAD USE)	0.020616049	kg/TJ
2024	Cu	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.029691211	kg/TJ
2024	Cu	1A4ai	FOREST WOODFUEL	0.006000000	kg/TJ
2024	Cu	1A4ai	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2024	Cu	1A4ai	SOD PEAT	0.220000000	kg/TJ
2024	Cu	1A4aii	GASOIL (FOR NON-ROAD USE)	0.041374669	kg/TJ
2024	Cu	1A4aii	MOTOR GASOLINE (S=0.001%)	0.044830523	kg/TJ
2024	Cu	1A4bi	FOREST WOODFUEL	0.006000000	kg/TJ
2024	Cu	1A4bi	SOD PEAT	0.220000000	kg/TJ
2024	Cu	1A4bii	GASOIL (FOR NON-ROAD USE)	0.041374669	kg/TJ
2024	Cu	1A4bii	MOTOR GASOLINE (S=0.001%)	0.044830523	kg/TJ

2024	Cu	1A4ci	ANIMAL-BASED FUELS	0.051000000	kg/TJ
2024	Cu	1A4ci	CHIPS FROM ROUNDWOOD	0.005000000	kg/TJ
2024	Cu	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.051000000	kg/TJ
2024	Cu	1A4ci	FOREST RESIDUE CHIPS	0.023378782	kg/TJ
2024	Cu	1A4ci	FOREST WOODFUEL	0.006000000	kg/TJ
2024	Cu	1A4ci	HEAVY FUEL OIL (S<1%)	0.002500000	kg/TJ
2024	Cu	1A4ci	MILLED PEAT	0.001300000	kg/TJ
2024	Cu	1A4ci	OTHER NON-FOSSIL SOLID	0.005000000	kg/TJ
2024	Cu	1A4ci	RECOVERED WOOD	0.005000000	kg/TJ
2024	Cu	1A4ci	SOD PEAT	0.220000000	kg/TJ
2024	Cu	1A4ci	WOOD RESIDUE CHIPS	0.051000000	kg/TJ
2024	Cu	1A4cii	GASOIL (FOR NON-ROAD USE)	0.041374669	kg/TJ
2024	Cu	1A4cii	MOTOR GASOLINE (S=0.001%)	0.044830523	kg/TJ
2024	Cu	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.021417476	kg/TJ
2024	Cu	1A5a	FOREST WOODFUEL	0.051000000	kg/TJ
2024	Cu	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.003274388	kg/TJ
2024	Cu	1A5a	OTHER PETROLEUM PRODUCTS	0.002500000	kg/TJ

Ni Implied emission factors in Finnish air pollutant inventory for 2024

2024	Ni	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.001951750	kg/TJ
2024	Ni	1A1a	ANIMAL-BASED FUELS	0.002000000	kg/TJ
2024	Ni	1A1a	ANTHRACITE	0.000765718	kg/TJ
2024	Ni	1A1a	ASPHALTENE	0.262090073	kg/TJ
2024	Ni	1A1a	BARK	0.002205196	kg/TJ
2024	Ni	1A1a	BIO PELLETS (NON-WOOD)	0.002000000	kg/TJ
2024	Ni	1A1a	BIOLOGICAL SLURRY	0.002000000	kg/TJ
2024	Ni	1A1a	CHIPS FROM ROUNDWOOD	0.002922109	kg/TJ
2024	Ni	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.009255271	kg/TJ
2024	Ni	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.017502564	kg/TJ
2024	Ni	1A1a	COAL (S=1.0%)	0.004804023	kg/TJ
2024	Ni	1A1a	CUTTER CHIPS ETC.	0.001820447	kg/TJ
2024	Ni	1A1a	DEINKING WASTE	0.003963571	kg/TJ
2024	Ni	1A1a	DEMOLITION WOOD	0.000475398	kg/TJ
2024	Ni	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.002000000	kg/TJ
2024	Ni	1A1a	FOREST RESIDUE CHIPS	0.009732003	kg/TJ
2024	Ni	1A1a	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.276014325	kg/TJ
2024	Ni	1A1a	HEAVY FUEL OIL (S<0,1%)	0.259155030	kg/TJ
2024	Ni	1A1a	HEAVY FUEL OIL (S<0,5%)	0.145953239	kg/TJ
2024	Ni	1A1a	HEAVY FUEL OIL (S<1%)	0.102176608	kg/TJ
2024	Ni	1A1a	IMPREGNATED WOOD	0.001685366	kg/TJ
2024	Ni	1A1a	INDUSTRIAL WASTE	0.003616699	kg/TJ
2024	Ni	1A1a	MILLED PEAT	0.008709790	kg/TJ
2024	Ni	1A1a	MUNICIPAL WASTE - unsorted	0.005264480	kg/TJ
2024	Ni	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001999862	kg/TJ
2024	Ni	1A1a	OTHER FOSSIL SOLID	0.000188708	kg/TJ
2024	Ni	1A1a	OTHER NON-FOSSIL SOLID	0.001931926	kg/TJ
2024	Ni	1A1a	OTHER NON-FOSSIL SOLID	0.001713300	kg/TJ
2024	Ni	1A1a	OTHER WASTE	0.001783522	kg/TJ
2024	Ni	1A1a	OTHER WOOD RESIDUE	0.024190773	kg/TJ
2024	Ni	1A1a	PAPER	0.002000000	kg/TJ
2024	Ni	1A1a	PLASTIC WASTE	0.000500000	kg/TJ
2024	Ni	1A1a	RECOVERED FUEL (REF 2)	0.030000000	kg/TJ
2024	Ni	1A1a	RECOVERED WOOD	0.010189015	kg/TJ
2024	Ni	1A1a	RECYCLED AND WASTE OILS	0.003999998	kg/TJ

2024	Ni	1A1a	SAWDUST	0.002750023	kg/TJ
2024	Ni	1A1a	SOD PEAT	0.139034163	kg/TJ
2024	Ni	1A1a	SOLID RECOVERED FUEL (SRF)	0.020791808	kg/TJ
2024	Ni	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.002519644	kg/TJ
2024	Ni	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.006709660	kg/TJ
2024	Ni	1A1a	WOOD RESIDUE CHIPS	0.009359029	kg/TJ
2024	Ni	1A1a	WOOD STUMP CHIPS	0.024814999	kg/TJ
2024	Ni	1A1b	PETROLEUM COKE	0.000595238	kg/TJ
2024	Ni	1A2a	WOOD RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A2b	COAL (S=1.0%)	0.800000935	kg/TJ
2024	Ni	1A2b	HEAVY FUEL OIL (S<1%)	0.097186275	kg/TJ
2024	Ni	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.300000000	kg/TJ
2024	Ni	1A2c	HEAVY FUEL OIL (S<0,1%)	0.293442920	kg/TJ
2024	Ni	1A2c	HEAVY FUEL OIL (S<1%)	0.300000029	kg/TJ
2024	Ni	1A2c	OTHER FUEL	0.002000000	kg/TJ
2024	Ni	1A2c	OTHER NON-FOSSIL SOLID	1.161369193	kg/TJ
2024	Ni	1A2c	OTHER WASTE	0.002000000	kg/TJ
2024	Ni	1A2c	SULPHUR CONCENTRATE	0.000500000	kg/TJ
2024	Ni	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.030000000	kg/TJ
2024	Ni	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.002757769	kg/TJ
2024	Ni	1A2d	ANIMAL-BASED FUELS	0.000500000	kg/TJ
2024	Ni	1A2d	BARK	0.004344146	kg/TJ
2024	Ni	1A2d	BIOLOGICAL SLURRY	0.011789113	kg/TJ
2024	Ni	1A2d	BLACK LIQUOR	0.000427815	kg/TJ
2024	Ni	1A2d	CHIPS FROM ROUNDWOOD	0.025494169	kg/TJ
2024	Ni	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.008318191	kg/TJ
2024	Ni	1A2d	COAL (S=1.0%)	0.001962539	kg/TJ
2024	Ni	1A2d	CUTTER CHIPS ETC.	0.001286317	kg/TJ
2024	Ni	1A2d	DEMOLITION WOOD	0.000500000	kg/TJ
2024	Ni	1A2d	FOREST RESIDUE CHIPS	0.006990752	kg/TJ
2024	Ni	1A2d	HEAVY FUEL OIL (S<0,1%)	0.158922141	kg/TJ
2024	Ni	1A2d	HEAVY FUEL OIL (S<0,5%)	0.300000000	kg/TJ
2024	Ni	1A2d	HEAVY FUEL OIL (S<1%)	0.014163427	kg/TJ
2024	Ni	1A2d	IMPREGNATED WOOD	0.000500000	kg/TJ
2024	Ni	1A2d	INDUSTRIAL WASTE	0.008577107	kg/TJ
2024	Ni	1A2d	MILLED PEAT	0.008494419	kg/TJ
2024	Ni	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001806037	kg/TJ
2024	Ni	1A2d	OTHER FUEL	0.002568161	kg/TJ
2024	Ni	1A2d	OTHER WOOD RESIDUE	0.030000000	kg/TJ
2024	Ni	1A2d	PAPER	0.003505000	kg/TJ
2024	Ni	1A2d	PLASTIC WASTE	0.000995361	kg/TJ
2024	Ni	1A2d	RECOVERED WOOD	0.001209493	kg/TJ
2024	Ni	1A2d	RECYCLED AND WASTE OILS	0.001000000	kg/TJ
2024	Ni	1A2d	SAWDUST	0.001591247	kg/TJ
2024	Ni	1A2d	SOD PEAT	0.140000000	kg/TJ
2024	Ni	1A2d	SOLID RECOVERED FUEL (SRF)	0.015000280	kg/TJ
2024	Ni	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.007543823	kg/TJ
2024	Ni	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.912961889	kg/TJ
2024	Ni	1A2d	WOOD RESIDUE CHIPS	0.004860113	kg/TJ
2024	Ni	1A2d	WOOD STUMP CHIPS	0.000500000	kg/TJ
2024	Ni	1A2e	ANIMAL FATS AND OILS	0.002000000	kg/TJ
2024	Ni	1A2e	ANIMAL-BASED FUELS	0.030000000	kg/TJ
2024	Ni	1A2e	BARK	0.002000001	kg/TJ
2024	Ni	1A2e	BIO-FUEL OIL	0.300000000	kg/TJ
2024	Ni	1A2e	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2024	Ni	1A2e	COKE (S=1.0%)	0.799999457	kg/TJ

2024	Ni	1A2e	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A2e	HEAVY FUEL OIL (S<1%)	0.278257389	kg/TJ
2024	Ni	1A2e	MILLED PEAT	0.079603451	kg/TJ
2024	Ni	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Ni	1A2e	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Ni	1A2e	PEAT PELLETS AND BRIQUETTES	0.000800000	kg/TJ
2024	Ni	1A2e	RECOVERED WOOD	0.001999998	kg/TJ
2024	Ni	1A2e	SAWDUST	0.002259224	kg/TJ
2024	Ni	1A2e	SOD PEAT	0.140000000	kg/TJ
2024	Ni	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.030000000	kg/TJ
2024	Ni	1A2f	CHIPS FROM ROUNDWOOD	0.030000000	kg/TJ
2024	Ni	1A2f	COAL (S=1.0%)	0.590363233	kg/TJ
2024	Ni	1A2f	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A2f	HEAVY FUEL OIL (S<0,1%)	0.300000000	kg/TJ
2024	Ni	1A2f	HEAVY FUEL OIL (S<1%)	0.266947142	kg/TJ
2024	Ni	1A2f	INDUSTRIAL WASTE	0.004827193	kg/TJ
2024	Ni	1A2f	OTHER FOSSIL LIQUID	0.001727371	kg/TJ
2024	Ni	1A2f	OTHER FUEL	0.002000000	kg/TJ
2024	Ni	1A2f	OTHER HEAVY DISTILLATES	0.300000000	kg/TJ
2024	Ni	1A2f	PETROLEUM COKE	0.001864457	kg/TJ
2024	Ni	1A2f	PLASTIC WASTE	0.000046629	kg/TJ
2024	Ni	1A2f	RECOVERED WOOD	0.002000000	kg/TJ
2024	Ni	1A2f	RECYCLED AND WASTE OILS	0.002659221	kg/TJ
2024	Ni	1A2f	RUBBER WASTE	0.000321813	kg/TJ
2024	Ni	1A2f	SAWDUST	0.000029049	kg/TJ
2024	Ni	1A2f	SOLID RECOVERED FUEL (SRF)	0.001081464	kg/TJ
2024	Ni	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000435730	kg/TJ
2024	Ni	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.001703663	kg/TJ
2024	Ni	1A2gvii	LIQUID GAS	0.001511879	kg/TJ
2024	Ni	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.001845963	kg/TJ
2024	Ni	1A2gviii	ANIMAL-BASED FUELS	0.030000000	kg/TJ
2024	Ni	1A2gviii	BARK	0.006431955	kg/TJ
2024	Ni	1A2gviii	BIOLOGICAL SLURRY	0.002000000	kg/TJ
2024	Ni	1A2gviii	CHIPS FROM ROUNDWOOD	0.000872982	kg/TJ
2024	Ni	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.030000000	kg/TJ
2024	Ni	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.030000000	kg/TJ
2024	Ni	1A2gviii	CUTTER CHIPS ETC.	0.004288475	kg/TJ
2024	Ni	1A2gviii	DECIDUOUS TREE	0.030000000	kg/TJ
2024	Ni	1A2gviii	DEMOLITION WOOD	0.000147371	kg/TJ
2024	Ni	1A2gviii	FOREST RESIDUE CHIPS	0.009375631	kg/TJ
2024	Ni	1A2gviii	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A2gviii	HAZARDOUS WASTE	0.006945913	kg/TJ
2024	Ni	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.300000000	kg/TJ
2024	Ni	1A2gviii	HEAVY FUEL OIL (S<1%)	0.289174027	kg/TJ
2024	Ni	1A2gviii	IMPREGNATED WOOD	0.001283692	kg/TJ
2024	Ni	1A2gviii	MANURE	0.030000000	kg/TJ
2024	Ni	1A2gviii	MILLED PEAT	0.000717254	kg/TJ
2024	Ni	1A2gviii	MUNICIPAL WASTE - unsorted	0.000521221	kg/TJ
2024	Ni	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.001958585	kg/TJ
2024	Ni	1A2gviii	OTHER HEAVY DISTILLATES	0.003831212	kg/TJ
2024	Ni	1A2gviii	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Ni	1A2gviii	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Ni	1A2gviii	OTHER WOOD RESIDUE	0.028244539	kg/TJ
2024	Ni	1A2gviii	PLASTIC WASTE	0.000947936	kg/TJ
2024	Ni	1A2gviii	RECOVERED WOOD	0.005783632	kg/TJ
2024	Ni	1A2gviii	RECYCLED AND WASTE OILS	0.001441917	kg/TJ

2024	Ni	1A2gviii	SAWDUST	0.000836872	kg/TJ
2024	Ni	1A2gviii	SAWDUST AND CUTTER CHIPS	0.030000000	kg/TJ
2024	Ni	1A2gviii	SOD PEAT	0.051620482	kg/TJ
2024	Ni	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.005932781	kg/TJ
2024	Ni	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003382850	kg/TJ
2024	Ni	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.026618303	kg/TJ
2024	Ni	1A2gviii	WOOD RESIDUE CHIPS	0.017342574	kg/TJ
2024	Ni	1A2gviii	WOOD STUMP CHIPS	0.002032691	kg/TJ
2024	Ni	1A3bi	DIESEL OIL (S=001%)	0.002628739	kg/TJ
2024	Ni	1A3bi	MOTOR GASOLINE (S=0.001%)	0.002393196	kg/TJ
2024	Ni	1A3bi	NATURAL GAS	0.002934140	kg/TJ
2024	Ni	1A3bii	DIESEL OIL (S=001%)	0.001959534	kg/TJ
2024	Ni	1A3bii	MOTOR GASOLINE (S=0.001%)	0.001303814	kg/TJ
2024	Ni	1A3biii	DIESEL OIL (S=001%)	0.000521474	kg/TJ
2024	Ni	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000369045	kg/TJ
2024	Ni	1A3biii	NATURAL GAS	0.000849645	kg/TJ
2024	Ni	1A3biv	DIESEL OIL (S=001%)	0.003408270	kg/TJ
2024	Ni	1A3biv	MOTOR GASOLINE (S=0.001%)	0.005034984	kg/TJ
2024	Ni	1A3c	GASOIL (FOR NON-ROAD USE)	0.001703663	kg/TJ
2024	Ni	1A3dii	GASOIL (FOR NON-ROAD USE)	0.023427328	kg/TJ
2024	Ni	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.760095012	kg/TJ
2024	Ni	1A4ai	FOREST WOODFUEL	0.030000000	kg/TJ
2024	Ni	1A4ai	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2024	Ni	1A4ai	SOD PEAT	0.140000000	kg/TJ
2024	Ni	1A4aii	GASOIL (FOR NON-ROAD USE)	0.001703663	kg/TJ
2024	Ni	1A4aii	MOTOR GASOLINE (S=0.001%)	0.001845963	kg/TJ
2024	Ni	1A4bi	FOREST WOODFUEL	0.030000000	kg/TJ
2024	Ni	1A4bi	SOD PEAT	0.140000000	kg/TJ
2024	Ni	1A4bii	GASOIL (FOR NON-ROAD USE)	0.001703663	kg/TJ
2024	Ni	1A4bii	MOTOR GASOLINE (S=0.001%)	0.001845963	kg/TJ
2024	Ni	1A4ci	ANIMAL-BASED FUELS	0.030000000	kg/TJ
2024	Ni	1A4ci	CHIPS FROM ROUNDWOOD	0.002000000	kg/TJ
2024	Ni	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.030000000	kg/TJ
2024	Ni	1A4ci	FOREST RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A4ci	FOREST WOODFUEL	0.030000000	kg/TJ
2024	Ni	1A4ci	HEAVY FUEL OIL (S<1%)	0.300000000	kg/TJ
2024	Ni	1A4ci	MILLED PEAT	0.000800000	kg/TJ
2024	Ni	1A4ci	OTHER NON-FOSSIL SOLID	0.002000000	kg/TJ
2024	Ni	1A4ci	RECOVERED WOOD	0.002000000	kg/TJ
2024	Ni	1A4ci	SOD PEAT	0.140000000	kg/TJ
2024	Ni	1A4ci	WOOD RESIDUE CHIPS	0.030000000	kg/TJ
2024	Ni	1A4cii	GASOIL (FOR NON-ROAD USE)	0.001703663	kg/TJ
2024	Ni	1A4cii	MOTOR GASOLINE (S=0.001%)	0.001845963	kg/TJ
2024	Ni	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ
2024	Ni	1A5a	FOREST WOODFUEL	0.030000000	kg/TJ
2024	Ni	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.002985776	kg/TJ
2024	Ni	1A5a	OTHER PETROLEUM PRODUCTS	0.300000000	kg/TJ

Zn Implied emission factors in Finnish air pollutant inventory for 2024

2024	Zn	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.052555761	kg/TJ
2024	Zn	1A1a	ANIMAL-BASED FUELS	0.054000000	kg/TJ
2024	Zn	1A1a	ANTHRACITE	0.009699093	kg/TJ
2024	Zn	1A1a	ASPHALTENE	0.010430578	kg/TJ
2024	Zn	1A1a	BARK	0.049336153	kg/TJ
2024	Zn	1A1a	BIO PELLETS (NON-WOOD)	0.054000000	kg/TJ

2024	Zn	1A1a	BIOLOGICAL SLURRY	0.054000000	kg/TJ
2024	Zn	1A1a	CHIPS FROM ROUNDWOOD	0.075609278	kg/TJ
2024	Zn	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.224637158	kg/TJ
2024	Zn	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.462118462	kg/TJ
2024	Zn	1A1a	COAL (S=1.0%)	0.011341071	kg/TJ
2024	Zn	1A1a	CUTTER CHIPS ETC.	0.039463376	kg/TJ
2024	Zn	1A1a	DEINKING WASTE	0.099302323	kg/TJ
2024	Zn	1A1a	DEMOLITION WOOD	0.053999827	kg/TJ
2024	Zn	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.054000045	kg/TJ
2024	Zn	1A1a	FOREST RESIDUE CHIPS	0.104893570	kg/TJ
2024	Zn	1A1a	FOREST RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.010834545	kg/TJ
2024	Zn	1A1a	HEAVY FUEL OIL (S<0,1%)	0.011059144	kg/TJ
2024	Zn	1A1a	HEAVY FUEL OIL (S<0,5%)	0.011583607	kg/TJ
2024	Zn	1A1a	HEAVY FUEL OIL (S<1%)	0.004685862	kg/TJ
2024	Zn	1A1a	IMPREGNATED WOOD	0.049547403	kg/TJ
2024	Zn	1A1a	INDUSTRIAL WASTE	0.067631860	kg/TJ
2024	Zn	1A1a	MILLED PEAT	0.023580155	kg/TJ
2024	Zn	1A1a	MUNICIPAL WASTE - unsorted	0.121376011	kg/TJ
2024	Zn	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.053999994	kg/TJ
2024	Zn	1A1a	OTHER FOSSIL SOLID	0.084000000	kg/TJ
2024	Zn	1A1a	OTHER NON-FOSSIL SOLID	0.054864857	kg/TJ
2024	Zn	1A1a	OTHER NON-FOSSIL SOLID	0.053586187	kg/TJ
2024	Zn	1A1a	OTHER WASTE	0.051776377	kg/TJ
2024	Zn	1A1a	OTHER WOOD RESIDUE	0.551270966	kg/TJ
2024	Zn	1A1a	PAPER	0.054000000	kg/TJ
2024	Zn	1A1a	PLASTIC WASTE	0.007714280	kg/TJ
2024	Zn	1A1a	RECOVERED FUEL (REF 2)	0.700000000	kg/TJ
2024	Zn	1A1a	RECOVERED WOOD	0.231474335	kg/TJ
2024	Zn	1A1a	RECYCLED AND WASTE OILS	0.005999997	kg/TJ
2024	Zn	1A1a	SAWDUST	0.061902366	kg/TJ
2024	Zn	1A1a	SOD PEAT	0.327691178	kg/TJ
2024	Zn	1A1a	SOLID RECOVERED FUEL (SRF)	0.522095342	kg/TJ
2024	Zn	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.161048145	kg/TJ
2024	Zn	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.104597193	kg/TJ
2024	Zn	1A1a	WOOD RESIDUE CHIPS	0.368231512	kg/TJ
2024	Zn	1A1a	WOOD STUMP CHIPS	0.304957988	kg/TJ
2024	Zn	1A1b	PETROLEUM COKE	1.500000000	kg/TJ
2024	Zn	1A2a	WOOD RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A2b	HEAVY FUEL OIL (S<1%)	0.003887451	kg/TJ
2024	Zn	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.012000000	kg/TJ
2024	Zn	1A2c	HEAVY FUEL OIL (S<0,1%)	0.011737726	kg/TJ
2024	Zn	1A2c	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2024	Zn	1A2c	OTHER FUEL	0.054000000	kg/TJ
2024	Zn	1A2c	OTHER NON-FOSSIL SOLID	0.493072535	kg/TJ
2024	Zn	1A2c	OTHER WASTE	0.054000000	kg/TJ
2024	Zn	1A2c	SULPHUR CONCENTRATE	0.007714283	kg/TJ
2024	Zn	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2024	Zn	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.059989201	kg/TJ
2024	Zn	1A2d	ANIMAL-BASED FUELS	0.007714299	kg/TJ
2024	Zn	1A2d	BARK	0.028919625	kg/TJ
2024	Zn	1A2d	BIOLOGICAL SLURRY	0.029694606	kg/TJ
2024	Zn	1A2d	CHIPS FROM ROUNDWOOD	0.058489212	kg/TJ
2024	Zn	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.175289517	kg/TJ
2024	Zn	1A2d	COAL (S=1.0%)	0.012000001	kg/TJ
2024	Zn	1A2d	CUTTER CHIPS ETC.	0.030770070	kg/TJ

2024	Zn	1A2d	DEMOLITION WOOD	0.007714288	kg/TJ
2024	Zn	1A2d	FOREST RESIDUE CHIPS	0.030392664	kg/TJ
2024	Zn	1A2d	HEAVY FUEL OIL (S<0,1%)	0.006421246	kg/TJ
2024	Zn	1A2d	HEAVY FUEL OIL (S<0,5%)	0.012000000	kg/TJ
2024	Zn	1A2d	HEAVY FUEL OIL (S<1%)	0.021972693	kg/TJ
2024	Zn	1A2d	IMPREGNATED WOOD	0.007714287	kg/TJ
2024	Zn	1A2d	INDUSTRIAL WASTE	0.114413223	kg/TJ
2024	Zn	1A2d	MILLED PEAT	0.003116566	kg/TJ
2024	Zn	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.047881330	kg/TJ
2024	Zn	1A2d	OTHER FUEL	0.024943178	kg/TJ
2024	Zn	1A2d	OTHER WOOD RESIDUE	0.700000000	kg/TJ
2024	Zn	1A2d	PAPER	0.054000000	kg/TJ
2024	Zn	1A2d	PLASTIC WASTE	0.007687922	kg/TJ
2024	Zn	1A2d	RECOVERED WOOD	0.015529275	kg/TJ
2024	Zn	1A2d	RECYCLED AND WASTE OILS	0.000857143	kg/TJ
2024	Zn	1A2d	SAWDUST	0.036535767	kg/TJ
2024	Zn	1A2d	SOD PEAT	0.330000000	kg/TJ
2024	Zn	1A2d	SOLID RECOVERED FUEL (SRF)	0.299042006	kg/TJ
2024	Zn	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.010289850	kg/TJ
2024	Zn	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.161381235	kg/TJ
2024	Zn	1A2d	WOOD RESIDUE CHIPS	0.105166431	kg/TJ
2024	Zn	1A2d	WOOD STUMP CHIPS	0.007714277	kg/TJ
2024	Zn	1A2e	ANIMAL FATS AND OILS	0.054000000	kg/TJ
2024	Zn	1A2e	ANIMAL-BASED FUELS	0.700000000	kg/TJ
2024	Zn	1A2e	BARK	0.054000007	kg/TJ
2024	Zn	1A2e	BIO-FUEL OIL	0.012000000	kg/TJ
2024	Zn	1A2e	CHIPS FROM ROUNDWOOD	0.053999983	kg/TJ
2024	Zn	1A2e	COKE (S=1.0%)	1.500001279	kg/TJ
2024	Zn	1A2e	FOREST RESIDUE CHIPS	0.464884559	kg/TJ
2024	Zn	1A2e	HEAVY FUEL OIL (S<1%)	0.011130950	kg/TJ
2024	Zn	1A2e	MILLED PEAT	0.190289603	kg/TJ
2024	Zn	1A2e	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2024	Zn	1A2e	OTHER NON-FOSSIL SOLID	0.053999956	kg/TJ
2024	Zn	1A2e	PEAT PELLETS AND BRIQUETTES	0.008000000	kg/TJ
2024	Zn	1A2e	RECOVERED WOOD	0.054000010	kg/TJ
2024	Zn	1A2e	SAWDUST	0.059980674	kg/TJ
2024	Zn	1A2e	SOD PEAT	0.330000000	kg/TJ
2024	Zn	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2024	Zn	1A2f	CHIPS FROM ROUNDWOOD	0.700000000	kg/TJ
2024	Zn	1A2f	COAL (S=1.0%)	1.237215254	kg/TJ
2024	Zn	1A2f	FOREST RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A2f	HEAVY FUEL OIL (S<0,1%)	0.012000000	kg/TJ
2024	Zn	1A2f	HEAVY FUEL OIL (S<1%)	0.011330010	kg/TJ
2024	Zn	1A2f	INDUSTRIAL WASTE	0.700000000	kg/TJ
2024	Zn	1A2f	OTHER FOSSIL LIQUID	0.012000000	kg/TJ
2024	Zn	1A2f	OTHER FUEL	0.054000000	kg/TJ
2024	Zn	1A2f	OTHER HEAVY DISTILLATES	0.011999998	kg/TJ
2024	Zn	1A2f	PETROLEUM COKE	0.520242424	kg/TJ
2024	Zn	1A2f	PLASTIC WASTE	0.007714285	kg/TJ
2024	Zn	1A2f	RECOVERED WOOD	0.054000000	kg/TJ
2024	Zn	1A2f	RECYCLED AND WASTE OILS	0.006000001	kg/TJ
2024	Zn	1A2f	RUBBER WASTE	0.054000000	kg/TJ
2024	Zn	1A2f	SAWDUST	0.054000000	kg/TJ
2024	Zn	1A2f	SOLID RECOVERED FUEL (SRF)	0.700000000	kg/TJ
2024	Zn	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2024	Zn	1A2gvii	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ

2024	Zn	1A2gvii	LIQUID GAS	0.021598272	kg/TJ
2024	Zn	1A2gvii	MOTOR GASOLINE (S=0.001%)	0.026370896	kg/TJ
2024	Zn	1A2gviii	ANIMAL-BASED FUELS	0.699997744	kg/TJ
2024	Zn	1A2gviii	BARK	0.160407121	kg/TJ
2024	Zn	1A2gviii	BIOLOGICAL SLURRY	0.054000000	kg/TJ
2024	Zn	1A2gviii	CHIPS FROM ROUNDWOOD	0.062543260	kg/TJ
2024	Zn	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.700000000	kg/TJ
2024	Zn	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.700000000	kg/TJ
2024	Zn	1A2gviii	CUTTER CHIPS ETC.	0.097989614	kg/TJ
2024	Zn	1A2gviii	DECIDUOUS TREE	0.700000000	kg/TJ
2024	Zn	1A2gviii	DEMOLITION WOOD	0.053999992	kg/TJ
2024	Zn	1A2gviii	FOREST RESIDUE CHIPS	0.536807585	kg/TJ
2024	Zn	1A2gviii	FOREST RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A2gviii	HAZARDOUS WASTE	0.393941124	kg/TJ
2024	Zn	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.012000000	kg/TJ
2024	Zn	1A2gviii	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2024	Zn	1A2gviii	IMPREGNATED WOOD	0.054000004	kg/TJ
2024	Zn	1A2gviii	MANURE	0.700000000	kg/TJ
2024	Zn	1A2gviii	MILLED PEAT	0.008083351	kg/TJ
2024	Zn	1A2gviii	MUNICIPAL WASTE - unsorted	0.026107600	kg/TJ
2024	Zn	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.054000103	kg/TJ
2024	Zn	1A2gviii	OTHER HEAVY DISTILLATES	0.005710650	kg/TJ
2024	Zn	1A2gviii	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2024	Zn	1A2gviii	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2024	Zn	1A2gviii	OTHER WOOD RESIDUE	0.659498997	kg/TJ
2024	Zn	1A2gviii	PLASTIC WASTE	0.053188187	kg/TJ
2024	Zn	1A2gviii	RECOVERED WOOD	0.163304113	kg/TJ
2024	Zn	1A2gviii	RECYCLED AND WASTE OILS	0.006000000	kg/TJ
2024	Zn	1A2gviii	SAWDUST	0.053732013	kg/TJ
2024	Zn	1A2gviii	SAWDUST AND CUTTER CHIPS	0.700000000	kg/TJ
2024	Zn	1A2gviii	SOD PEAT	0.124765886	kg/TJ
2024	Zn	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.700000172	kg/TJ
2024	Zn	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.080261721	kg/TJ
2024	Zn	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.700000000	kg/TJ
2024	Zn	1A2gviii	WOOD RESIDUE CHIPS	0.422275943	kg/TJ
2024	Zn	1A2gviii	WOOD STUMP CHIPS	0.700000000	kg/TJ
2024	Zn	1A3bi	DIESEL OIL (S=001%)	0.037517770	kg/TJ
2024	Zn	1A3bi	MOTOR GASOLINE (S=0.001%)	0.033799059	kg/TJ
2024	Zn	1A3bi	NATURAL GAS	0.041424484	kg/TJ
2024	Zn	1A3bii	DIESEL OIL (S=001%)	0.028071105	kg/TJ
2024	Zn	1A3bii	MOTOR GASOLINE (S=0.001%)	0.018416211	kg/TJ
2024	Zn	1A3biii	DIESEL OIL (S=001%)	0.007769610	kg/TJ
2024	Zn	1A3biii	MOTOR GASOLINE (S=0.001%)	0.005215028	kg/TJ
2024	Zn	1A3biii	NATURAL GAS	0.011994681	kg/TJ
2024	Zn	1A3biv	DIESEL OIL (S=001%)	0.048523310	kg/TJ
2024	Zn	1A3biv	MOTOR GASOLINE (S=0.001%)	0.071094481	kg/TJ
2024	Zn	1A3c	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ
2024	Zn	1A3dii	GASOIL (FOR NON-ROAD USE)	0.028112794	kg/TJ
2024	Zn	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.028503563	kg/TJ
2024	Zn	1A4ai	FOREST WOODFUEL	0.700000000	kg/TJ
2024	Zn	1A4ai	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2024	Zn	1A4ai	SOD PEAT	0.330000000	kg/TJ
2024	Zn	1A4aii	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ
2024	Zn	1A4aii	MOTOR GASOLINE (S=0.001%)	0.026370896	kg/TJ
2024	Zn	1A4bi	FOREST WOODFUEL	0.700000000	kg/TJ
2024	Zn	1A4bi	SOD PEAT	0.330000000	kg/TJ

2024	Zn	1A4bii	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ
2024	Zn	1A4bii	MOTOR GASOLINE (S=0.001%)	0.026370896	kg/TJ
2024	Zn	1A4ci	ANIMAL-BASED FUELS	0.700000000	kg/TJ
2024	Zn	1A4ci	CHIPS FROM ROUNDWOOD	0.054000000	kg/TJ
2024	Zn	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.700000000	kg/TJ
2024	Zn	1A4ci	FOREST RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A4ci	FOREST WOODFUEL	0.700000000	kg/TJ
2024	Zn	1A4ci	HEAVY FUEL OIL (S<1%)	0.012000000	kg/TJ
2024	Zn	1A4ci	MILLED PEAT	0.008000000	kg/TJ
2024	Zn	1A4ci	OTHER NON-FOSSIL SOLID	0.054000000	kg/TJ
2024	Zn	1A4ci	RECOVERED WOOD	0.054000000	kg/TJ
2024	Zn	1A4ci	SOD PEAT	0.330000000	kg/TJ
2024	Zn	1A4ci	WOOD RESIDUE CHIPS	0.700000000	kg/TJ
2024	Zn	1A4cii	GASOIL (FOR NON-ROAD USE)	0.024338040	kg/TJ
2024	Zn	1A4cii	MOTOR GASOLINE (S=0.001%)	0.026370896	kg/TJ
2024	Zn	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.029205648	kg/TJ
2024	Zn	1A5a	FOREST WOODFUEL	0.700000000	kg/TJ
2024	Zn	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.003944605	kg/TJ
2024	Zn	1A5a	OTHER PETROLEUM PRODUCTS	0.012000000	kg/TJ

PCDD/F Implied emission factors in Finnish air pollutant inventory for 2024

2024	PCDD/F	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000011620	g/TJ
2024	PCDD/F	1A1a	ANIMAL-BASED FUELS	0.000001347	g/TJ
2024	PCDD/F	1A1a	ASPHALTENE	0.000000348	g/TJ
2024	PCDD/F	1A1a	BARK	0.000017413	g/TJ
2024	PCDD/F	1A1a	BIO PELLETS (NON-WOOD)	0.000041250	g/TJ
2024	PCDD/F	1A1a	BIO PYROLYSIS OIL	0.000000500	g/TJ
2024	PCDD/F	1A1a	BIO-FUEL OIL	0.000000500	g/TJ
2024	PCDD/F	1A1a	BIOLOGICAL SLURRY	0.000041250	g/TJ
2024	PCDD/F	1A1a	BLAST FURNACE GAS	0.000000500	g/TJ
2024	PCDD/F	1A1a	CHIPS FROM ROUNDWOOD	0.000016051	g/TJ
2024	PCDD/F	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000020530	g/TJ
2024	PCDD/F	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000018351	g/TJ
2024	PCDD/F	1A1a	COAL (S=1.0%)	0.000003616	g/TJ
2024	PCDD/F	1A1a	COKE OVEN GAS	0.000000500	g/TJ
2024	PCDD/F	1A1a	CUTTER CHIPS ETC.	0.000019196	g/TJ
2024	PCDD/F	1A1a	DEINKING WASTE	0.000041250	g/TJ
2024	PCDD/F	1A1a	DEMOLITION WOOD	0.000003163	g/TJ
2024	PCDD/F	1A1a	DIESEL OIL (S=001%)	0.001735471	g/TJ
2024	PCDD/F	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000021000	g/TJ
2024	PCDD/F	1A1a	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A1a	FOREST RESIDUE CHIPS	0.000015500	g/TJ
2024	PCDD/F	1A1a	GASOIL (FOR NON-ROAD USE)	0.000000491	g/TJ
2024	PCDD/F	1A1a	HEAVY FUEL OIL (normal, S>1%)	0.000000399	g/TJ
2024	PCDD/F	1A1a	HEAVY FUEL OIL (S<0,1%)	0.000000367	g/TJ
2024	PCDD/F	1A1a	HEAVY FUEL OIL (S<0,5%)	0.000000390	g/TJ
2024	PCDD/F	1A1a	HEAVY FUEL OIL (S<1%)	0.000000370	g/TJ
2024	PCDD/F	1A1a	HYDROGEN	0.000000500	g/TJ
2024	PCDD/F	1A1a	IMPREGNATED WOOD	0.000029479	g/TJ
2024	PCDD/F	1A1a	INDUSTRIAL WASTE	0.000015023	g/TJ
2024	PCDD/F	1A1a	LANDFILL GAS	0.000000500	g/TJ
2024	PCDD/F	1A1a	LIGHT FUEL OIL (S=0.0915%)	0.000000495	g/TJ
2024	PCDD/F	1A1a	LIQUEFIED NATURAL GAS (LNG)	0.000000500	g/TJ
2024	PCDD/F	1A1a	LIQUID GAS	0.000001382	g/TJ
2024	PCDD/F	1A1a	MILLED PEAT	0.000013384	g/TJ

2024	PCDD/F	1A1a	MOTOR GASOLINE (S=0.001%)	0.000000500	g/TJ
2024	PCDD/F	1A1a	MUNICIPAL WASTE - unsorted	0.000039921	g/TJ
2024	PCDD/F	1A1a	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A1a	NATURAL GAS	0.000000496	g/TJ
2024	PCDD/F	1A1a	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000021000	g/TJ
2024	PCDD/F	1A1a	OTHER FOSSIL GAS	0.000000001	g/TJ
2024	PCDD/F	1A1a	OTHER FOSSIL SOLID	0.000000001	g/TJ
2024	PCDD/F	1A1a	OTHER MEDIUM DISTILLATES	0.000000500	g/TJ
2024	PCDD/F	1A1a	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A1a	OTHER NON-FOSSIL SOLID	0.000020148	g/TJ
2024	PCDD/F	1A1a	OTHER NON-FOSSIL SOLID	0.000020809	g/TJ
2024	PCDD/F	1A1a	OTHER WASTE	0.000036283	g/TJ
2024	PCDD/F	1A1a	OTHER WOOD RESIDUE	0.000020741	g/TJ
2024	PCDD/F	1A1a	PAPER	0.000014947	g/TJ
2024	PCDD/F	1A1a	PLASTIC WASTE	0.000031364	g/TJ
2024	PCDD/F	1A1a	RECOVERED FUEL (REF 2)	0.000041250	g/TJ
2024	PCDD/F	1A1a	RECOVERED WOOD	0.000015306	g/TJ
2024	PCDD/F	1A1a	RECYCLED AND WASTE OILS	0.000000056	g/TJ
2024	PCDD/F	1A1a	REFINERY GASES	0.000000514	g/TJ
2024	PCDD/F	1A1a	RENEWABLE DIESEL	0.000000500	g/TJ
2024	PCDD/F	1A1a	SAWDUST	0.000016902	g/TJ
2024	PCDD/F	1A1a	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A1a	SOLID RECOVERED FUEL (SRF)	0.000017413	g/TJ
2024	PCDD/F	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000020859	g/TJ
2024	PCDD/F	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000019753	g/TJ
2024	PCDD/F	1A1a	WOOD RESIDUE CHIPS	0.000019874	g/TJ
2024	PCDD/F	1A1a	WOOD STUMP CHIPS	0.000012837	g/TJ
2024	PCDD/F	1A1b	COKE (S=1.0%)	0.000004000	g/TJ
2024	PCDD/F	1A1b	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A1b	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A1b	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A1b	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A1b	PETROLEUM COKE	0.000004000	g/TJ
2024	PCDD/F	1A1b	REFINERY GAS	0.000000500	g/TJ
2024	PCDD/F	1A1b	REFINERY GASES	0.000000500	g/TJ
2024	PCDD/F	1A1b	SULPHUR CONCENTRATE	0.000021000	g/TJ
2024	PCDD/F	1A2a	BLAST FURNACE GAS	0.000000171	g/TJ
2024	PCDD/F	1A2a	COKE OVEN GAS	0.000000236	g/TJ
2024	PCDD/F	1A2a	DIESEL OIL (S=001%)	0.000000500	g/TJ
2024	PCDD/F	1A2a	GASOIL (FOR NON-ROAD USE)	0.000000496	g/TJ
2024	PCDD/F	1A2a	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A2a	LIQUID GAS	0.000000087	g/TJ
2024	PCDD/F	1A2a	NATURAL GAS	0.000000457	g/TJ
2024	PCDD/F	1A2a	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A2b	COKE (S=1.0%)	0.000004000	g/TJ
2024	PCDD/F	1A2b	DIESEL OIL (S=001%)	0.000000500	g/TJ
2024	PCDD/F	1A2b	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2024	PCDD/F	1A2b	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2024	PCDD/F	1A2b	LIGHT FUEL OIL (S=0.0915%)	0.000000466	g/TJ
2024	PCDD/F	1A2b	LIQUEFIED NATURAL GAS (LNG)	0.000000500	g/TJ
2024	PCDD/F	1A2b	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2b	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A2b	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2024	PCDD/F	1A2c	AROMATIC GAS	0.000004464	g/TJ
2024	PCDD/F	1A2c	DIESEL OIL (S=001%)	0.000000500	g/TJ

2024	PCDD/F	1A2c	GASIFIED WASTE	0.000000500	g/TJ
2024	PCDD/F	1A2c	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2024	PCDD/F	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.000000400	g/TJ
2024	PCDD/F	1A2c	HEAVY FUEL OIL (S<0,1%)	0.000000400	g/TJ
2024	PCDD/F	1A2c	HEAVY FUEL OIL (S<1%)	0.000000201	g/TJ
2024	PCDD/F	1A2c	HYDROGEN	0.000000500	g/TJ
2024	PCDD/F	1A2c	LIGHT FUEL OIL (S=0.0915%)	0.000000493	g/TJ
2024	PCDD/F	1A2c	LIQUEFIED NATURAL GAS (LNG)	0.000000251	g/TJ
2024	PCDD/F	1A2c	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2c	METHANOL	0.000004464	g/TJ
2024	PCDD/F	1A2c	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A2c	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2c	OTHER FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2c	OTHER FUEL	0.000021000	g/TJ
2024	PCDD/F	1A2c	OTHER MEDIUM DISTILLATES	0.000000500	g/TJ
2024	PCDD/F	1A2c	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A2c	OTHER WASTE	0.000041250	g/TJ
2024	PCDD/F	1A2c	PETROCHEMICAL BY-PRODUCT OILS	0.000000400	g/TJ
2024	PCDD/F	1A2c	REFINERY GASES	0.000000488	g/TJ
2024	PCDD/F	1A2c	RENEWABLE DIESEL	0.000000500	g/TJ
2024	PCDD/F	1A2c	SULPHUR CONCENTRATE	0.000021000	g/TJ
2024	PCDD/F	1A2c	TALL PITCH AND OIL	0.000000979	g/TJ
2024	PCDD/F	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2024	PCDD/F	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000069239	g/TJ
2024	PCDD/F	1A2d	ANIMAL-BASED FUELS	0.000010128	g/TJ
2024	PCDD/F	1A2d	AROMATIC GAS	0.000006477	g/TJ
2024	PCDD/F	1A2d	BARK	0.000027325	g/TJ
2024	PCDD/F	1A2d	BIO-FUEL OIL	0.000000500	g/TJ
2024	PCDD/F	1A2d	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2024	PCDD/F	1A2d	BIOLOGICAL SLURRY	0.000031560	g/TJ
2024	PCDD/F	1A2d	CHIPS FROM ROUNDWOOD	0.000081806	g/TJ
2024	PCDD/F	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000021000	g/TJ
2024	PCDD/F	1A2d	COAL (S=1.0%)	0.000003932	g/TJ
2024	PCDD/F	1A2d	CUTTER CHIPS ETC.	0.000015715	g/TJ
2024	PCDD/F	1A2d	DEMOLITION WOOD	0.000019894	g/TJ
2024	PCDD/F	1A2d	FOREST RESIDUE CHIPS	0.000042489	g/TJ
2024	PCDD/F	1A2d	GASOIL (FOR NON-ROAD USE)	0.000000502	g/TJ
2024	PCDD/F	1A2d	HEAVY FUEL OIL (S<0,1%)	0.000000384	g/TJ
2024	PCDD/F	1A2d	HEAVY FUEL OIL (S<0,5%)	0.000000400	g/TJ
2024	PCDD/F	1A2d	HEAVY FUEL OIL (S<1%)	0.000000408	g/TJ
2024	PCDD/F	1A2d	HYDROGEN	0.000000500	g/TJ
2024	PCDD/F	1A2d	IMPREGNATED WOOD	0.000019894	g/TJ
2024	PCDD/F	1A2d	INDUSTRIAL WASTE	0.000041250	g/TJ
2024	PCDD/F	1A2d	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A2d	LIQUEFIED NATURAL GAS (LNG)	0.000000500	g/TJ
2024	PCDD/F	1A2d	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2d	METHANOL	0.000014936	g/TJ
2024	PCDD/F	1A2d	MILLED PEAT	0.000021048	g/TJ
2024	PCDD/F	1A2d	NATURAL GAS	0.000002087	g/TJ
2024	PCDD/F	1A2d	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000021000	g/TJ
2024	PCDD/F	1A2d	OTHER FUEL	0.000021000	g/TJ
2024	PCDD/F	1A2d	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2d	OTHER WOOD RESIDUE	0.000021000	g/TJ
2024	PCDD/F	1A2d	PAPER	0.000004472	g/TJ
2024	PCDD/F	1A2d	PLASTIC WASTE	0.000041250	g/TJ

2024	PCDD/F	1A2d	RECOVERED WOOD	0.000010434	g/TJ
2024	PCDD/F	1A2d	RECYCLED AND WASTE OILS	0.000000193	g/TJ
2024	PCDD/F	1A2d	SAWDUST	0.000054716	g/TJ
2024	PCDD/F	1A2d	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A2d	SOLID RECOVERED FUEL (SRF)	0.000016943	g/TJ
2024	PCDD/F	1A2d	TALL PITCH AND OIL	0.000007135	g/TJ
2024	PCDD/F	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000003685	g/TJ
2024	PCDD/F	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2024	PCDD/F	1A2d	WOOD RESIDUE CHIPS	0.000057298	g/TJ
2024	PCDD/F	1A2d	WOOD STUMP CHIPS	0.000010128	g/TJ
2024	PCDD/F	1A2e	ANIMAL FATS AND OILS	0.000021000	g/TJ
2024	PCDD/F	1A2e	ANIMAL-BASED FUELS	0.000021000	g/TJ
2024	PCDD/F	1A2e	BARK	0.000021000	g/TJ
2024	PCDD/F	1A2e	BIO-FUEL OIL	0.000000400	g/TJ
2024	PCDD/F	1A2e	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2024	PCDD/F	1A2e	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2024	PCDD/F	1A2e	COKE (S=1.0%)	0.000004000	g/TJ
2024	PCDD/F	1A2e	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A2e	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2024	PCDD/F	1A2e	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2024	PCDD/F	1A2e	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A2e	LIQUEFIED NATURAL GAS (LNG)	0.000000500	g/TJ
2024	PCDD/F	1A2e	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2e	MILLED PEAT	0.000017500	g/TJ
2024	PCDD/F	1A2e	MOTOR GASOLINE (S=0.001%)	0.000000500	g/TJ
2024	PCDD/F	1A2e	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A2e	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2e	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2e	OTHER MEDIUM DISTILLATES	0.000000500	g/TJ
2024	PCDD/F	1A2e	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2e	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A2e	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A2e	PEAT PELLETS AND BRIQUETTES	0.000017500	g/TJ
2024	PCDD/F	1A2e	RECOVERED WOOD	0.000021000	g/TJ
2024	PCDD/F	1A2e	SAWDUST	0.000021000	g/TJ
2024	PCDD/F	1A2e	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2024	PCDD/F	1A2f	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2024	PCDD/F	1A2f	COAL (S=1.0%)	0.000005403	g/TJ
2024	PCDD/F	1A2f	COKE OVEN GAS	0.000000500	g/TJ
2024	PCDD/F	1A2f	DIESEL OIL (S=0.001%)	0.000000500	g/TJ
2024	PCDD/F	1A2f	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A2f	GASOIL (FOR NON-ROAD USE)	0.000000498	g/TJ
2024	PCDD/F	1A2f	HEAVY FUEL OIL (S<0,1%)	0.000000400	g/TJ
2024	PCDD/F	1A2f	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2024	PCDD/F	1A2f	INDUSTRIAL WASTE	0.000161783	g/TJ
2024	PCDD/F	1A2f	LIGHT FUEL OIL (S=0.0915%)	0.000000517	g/TJ
2024	PCDD/F	1A2f	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2f	MOTOR GASOLINE (S=0.001%)	0.000000500	g/TJ
2024	PCDD/F	1A2f	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2f	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2f	OTHER FUEL	0.000021000	g/TJ
2024	PCDD/F	1A2f	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2024	PCDD/F	1A2f	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2f	PETROLEUM COKE	0.000010855	g/TJ
2024	PCDD/F	1A2f	PLASTIC WASTE	0.000091241	g/TJ

2024	PCDD/F	1A2f	RECOVERED WOOD	0.000021000	g/TJ
2024	PCDD/F	1A2f	RECYCLED AND WASTE OILS	0.000000400	g/TJ
2024	PCDD/F	1A2f	RUBBER WASTE	0.000161783	g/TJ
2024	PCDD/F	1A2f	SAWDUST	0.000021000	g/TJ
2024	PCDD/F	1A2f	SOLID RECOVERED FUEL (SRF)	0.000031586	g/TJ
2024	PCDD/F	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	ANIMAL-BASED FUELS	0.000000137	g/TJ
2024	PCDD/F	1A2gviii	BARK	0.000018579	g/TJ
2024	PCDD/F	1A2gviii	BIO-FUEL OIL	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	BIOGAS FROM WASTEWATER TREATMENT	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	BIOLOGICAL SLURRY	0.000002530	g/TJ
2024	PCDD/F	1A2gviii	CHIPS FROM ROUNDWOOD	0.000008854	g/TJ
2024	PCDD/F	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	CUTTER CHIPS ETC.	0.000019548	g/TJ
2024	PCDD/F	1A2gviii	DECIDUOUS TREE	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	DEMOLITION WOOD	0.000014922	g/TJ
2024	PCDD/F	1A2gviii	DIESEL OIL (S=001%)	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	FOREST RESIDUE CHIPS	0.000013636	g/TJ
2024	PCDD/F	1A2gviii	GASOIL (FOR NON-ROAD USE)	0.000000463	g/TJ
2024	PCDD/F	1A2gviii	HAZARDOUS WASTE	0.000000339	g/TJ
2024	PCDD/F	1A2gviii	HEAVY FUEL OIL (S<0,1%)	0.000000400	g/TJ
2024	PCDD/F	1A2gviii	HEAVY FUEL OIL (S<1%)	0.000000376	g/TJ
2024	PCDD/F	1A2gviii	IMPREGNATED WOOD	0.000000675	g/TJ
2024	PCDD/F	1A2gviii	LANDFILL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	0.000000440	g/TJ
2024	PCDD/F	1A2gviii	LIQUEFIED NATURAL GAS (LNG)	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	MANURE	0.000000137	g/TJ
2024	PCDD/F	1A2gviii	MILLED PEAT	0.000011543	g/TJ
2024	PCDD/F	1A2gviii	MUNICIPAL WASTE - unsorted	0.000001153	g/TJ
2024	PCDD/F	1A2gviii	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	0.000020704	g/TJ
2024	PCDD/F	1A2gviii	OTHER HEAVY DISTILLATES	0.000000400	g/TJ
2024	PCDD/F	1A2gviii	OTHER NON-FOSSIL GAS	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	OTHER WOOD RESIDUE	0.000019764	g/TJ
2024	PCDD/F	1A2gviii	PLASTIC WASTE	0.000000405	g/TJ
2024	PCDD/F	1A2gviii	RECOVERED WOOD	0.000012582	g/TJ
2024	PCDD/F	1A2gviii	RECYCLED AND WASTE OILS	0.000000069	g/TJ
2024	PCDD/F	1A2gviii	RENEWABLE DIESEL	0.000000500	g/TJ
2024	PCDD/F	1A2gviii	SAWDUST	0.000007814	g/TJ
2024	PCDD/F	1A2gviii	SAWDUST AND CUTTER CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A2gviii	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A2gviii	SOLID RECOVERED FUEL (SRF)	0.000018696	g/TJ
2024	PCDD/F	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000020425	g/TJ
2024	PCDD/F	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000019387	g/TJ
2024	PCDD/F	1A2gviii	WOOD RESIDUE CHIPS	0.000020532	g/TJ
2024	PCDD/F	1A2gviii	WOOD STUMP CHIPS	0.000007657	g/TJ
2024	PCDD/F	1A3bi	DIESEL OIL (S=001%)	0.000010237	g/TJ
2024	PCDD/F	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000003860	g/TJ
2024	PCDD/F	1A3bi	NATURAL GAS	0.000004443	g/TJ

2024	PCDD/F	1A3bii	DIESEL OIL (S=001%)	0.000009082	g/TJ
2024	PCDD/F	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000004353	g/TJ
2024	PCDD/F	1A3biii	DIESEL OIL (S=001%)	0.000001579	g/TJ
2024	PCDD/F	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000004393	g/TJ
2024	PCDD/F	1A3biii	NATURAL GAS	0.000000742	g/TJ
2024	PCDD/F	1A3biv	DIESEL OIL (S=001%)	0.000044113	g/TJ
2024	PCDD/F	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000010105	g/TJ
2024	PCDD/F	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000003046	g/TJ
2024	PCDD/F	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000011164	g/TJ
2024	PCDD/F	1A3ei	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A4ai	BIO-FUEL OIL	0.000000500	g/TJ
2024	PCDD/F	1A4ai	FOREST WOODFUEL	0.000021000	g/TJ
2024	PCDD/F	1A4ai	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2024	PCDD/F	1A4ai	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2024	PCDD/F	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A4ai	NAPHTHA	0.000000500	g/TJ
2024	PCDD/F	1A4ai	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A4ai	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A4ai	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A4bi	FOREST WOODFUEL	0.000021000	g/TJ
2024	PCDD/F	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A4bi	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A4bi	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A4bi	PARAFFIN	0.000000500	g/TJ
2024	PCDD/F	1A4bi	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A4ci	ANIMAL-BASED FUELS	0.000021000	g/TJ
2024	PCDD/F	1A4ci	CHIPS FROM ROUNDWOOD	0.000021000	g/TJ
2024	PCDD/F	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	0.000021000	g/TJ
2024	PCDD/F	1A4ci	FOREST RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A4ci	FOREST WOODFUEL	0.000021000	g/TJ
2024	PCDD/F	1A4ci	GASOIL (FOR NON-ROAD USE)	0.000000500	g/TJ
2024	PCDD/F	1A4ci	HEAVY FUEL OIL (S<1%)	0.000000400	g/TJ
2024	PCDD/F	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000000500	g/TJ
2024	PCDD/F	1A4ci	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A4ci	MILLED PEAT	0.000017500	g/TJ
2024	PCDD/F	1A4ci	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A4ci	OTHER NON-FOSSIL SOLID	0.000021000	g/TJ
2024	PCDD/F	1A4ci	RECOVERED WOOD	0.000021000	g/TJ
2024	PCDD/F	1A4ci	SOD PEAT	0.000017500	g/TJ
2024	PCDD/F	1A4ci	WOOD RESIDUE CHIPS	0.000021000	g/TJ
2024	PCDD/F	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000003164	g/TJ
2024	PCDD/F	1A5a	FOREST WOODFUEL	0.000021000	g/TJ
2024	PCDD/F	1A5a	LANDFILL GAS	0.000000500	g/TJ
2024	PCDD/F	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000000885	g/TJ
2024	PCDD/F	1A5a	LIQUID GAS	0.000000500	g/TJ
2024	PCDD/F	1A5a	NATURAL GAS	0.000000500	g/TJ
2024	PCDD/F	1A5a	OTHER PETROLEUM PRODUCTS	0.000000400	g/TJ

PAH-4 Implied emission factors in Finnish air pollutant inventory for 2024

2024	PAH-4	1A1a	0-FIBRE/BIOLOGICAL SLURRY	2.702583620	g/TJ
2024	PAH-4	1A1a	ANIMAL-BASED FUELS	2.700000000	g/TJ
2024	PAH-4	1A1a	ASPHALTENE	2.800000000	g/TJ
2024	PAH-4	1A1a	BARK	2.711235799	g/TJ
2024	PAH-4	1A1a	BIO PELLETS (NON-WOOD)	2.500000000	g/TJ
2024	PAH-4	1A1a	BIO PYROLYSIS OIL	2.800000000	g/TJ

2024	PAH-4	1A1a	BIO-FUEL OIL	2.800003338	g/TJ
2024	PAH-4	1A1a	BIOLOGICAL SLURRY	2.500000000	g/TJ
2024	PAH-4	1A1a	CHIPS FROM ROUNDWOOD	2.604334061	g/TJ
2024	PAH-4	1A1a	CHIPS FROM ROUNDWOOD, LARGE	2.634157577	g/TJ
2024	PAH-4	1A1a	CHIPS FROM ROUNDWOOD, SMALL	2.667048474	g/TJ
2024	PAH-4	1A1a	COAL (S=1.0%)	0.011454256	g/TJ
2024	PAH-4	1A1a	CUTTER CHIPS ETC.	2.709351037	g/TJ
2024	PAH-4	1A1a	DEINKING WASTE	2.499999343	g/TJ
2024	PAH-4	1A1a	DEMOLITION WOOD	3.733747458	g/TJ
2024	PAH-4	1A1a	DIESEL OIL (S=001%)	2.800000000	g/TJ
2024	PAH-4	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	2.700002234	g/TJ
2024	PAH-4	1A1a	FOREST RESIDUE CHIPS	2.515069675	g/TJ
2024	PAH-4	1A1a	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A1a	GASOIL (FOR NON-ROAD USE)	2.767477427	g/TJ
2024	PAH-4	1A1a	HEAVY FUEL OIL (normal, S>1%)	2.800000000	g/TJ
2024	PAH-4	1A1a	HEAVY FUEL OIL (S<0,1%)	2.799999628	g/TJ
2024	PAH-4	1A1a	HEAVY FUEL OIL (S<0,5%)	2.800000072	g/TJ
2024	PAH-4	1A1a	HEAVY FUEL OIL (S<1%)	2.752347193	g/TJ
2024	PAH-4	1A1a	IMPREGNATED WOOD	2.076181714	g/TJ
2024	PAH-4	1A1a	INDUSTRIAL WASTE	0.978088270	g/TJ
2024	PAH-4	1A1a	LIGHT FUEL OIL (S=0.0915%)	2.797421785	g/TJ
2024	PAH-4	1A1a	MILLED PEAT	0.934789709	g/TJ
2024	PAH-4	1A1a	MOTOR GASOLINE (S=0.001%)	2.800000000	g/TJ
2024	PAH-4	1A1a	MUNICIPAL WASTE - unsorted	19.902775679	g/TJ
2024	PAH-4	1A1a	NAPHTHA	2.800000000	g/TJ
2024	PAH-4	1A1a	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	2.699988703	g/TJ
2024	PAH-4	1A1a	OTHER FOSSIL SOLID	0.019402064	g/TJ
2024	PAH-4	1A1a	OTHER MEDIUM DISTILLATES	2.800000000	g/TJ
2024	PAH-4	1A1a	OTHER NON-FOSSIL SOLID	2.673234472	g/TJ
2024	PAH-4	1A1a	OTHER NON-FOSSIL SOLID	2.700000360	g/TJ
2024	PAH-4	1A1a	OTHER WASTE	2.336370431	g/TJ
2024	PAH-4	1A1a	OTHER WOOD RESIDUE	2.688166983	g/TJ
2024	PAH-4	1A1a	PAPER	2.700000000	g/TJ
2024	PAH-4	1A1a	PLASTIC WASTE	2.500009948	g/TJ
2024	PAH-4	1A1a	RECOVERED FUEL (REF 2)	2.500000000	g/TJ
2024	PAH-4	1A1a	RECOVERED WOOD	2.694456421	g/TJ
2024	PAH-4	1A1a	RECYCLED AND WASTE OILS	2.800000031	g/TJ
2024	PAH-4	1A1a	RENEWABLE DIESEL	2.800000000	g/TJ
2024	PAH-4	1A1a	SAWDUST	2.680220760	g/TJ
2024	PAH-4	1A1a	SOD PEAT	1.000000002	g/TJ
2024	PAH-4	1A1a	SOLID RECOVERED FUEL (SRF)	2.476824478	g/TJ
2024	PAH-4	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2.699677883	g/TJ
2024	PAH-4	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.616044385	g/TJ
2024	PAH-4	1A1a	WOOD RESIDUE CHIPS	2.672849973	g/TJ
2024	PAH-4	1A1a	WOOD STUMP CHIPS	2.656938798	g/TJ
2024	PAH-4	1A1b	COKE (S=1.0%)	0.012000000	g/TJ
2024	PAH-4	1A1b	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A1b	PETROLEUM COKE	0.012000000	g/TJ
2024	PAH-4	1A2a	COKE (S=1.0%)	0.000731731	g/TJ
2024	PAH-4	1A2a	DIESEL OIL (S=001%)	2.800000000	g/TJ
2024	PAH-4	1A2a	GASOIL (FOR NON-ROAD USE)	2.777021928	g/TJ
2024	PAH-4	1A2a	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A2a	OTHER FOSSIL SOLID	0.012000000	g/TJ
2024	PAH-4	1A2a	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2b	COAL (S=1.0%)	0.012000014	g/TJ
2024	PAH-4	1A2b	COKE (S=1.0%)	0.012000003	g/TJ

2024	PAH-4	1A2b	DIESEL OIL (S=001%)	2.800000000	g/TJ
2024	PAH-4	1A2b	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2024	PAH-4	1A2b	HEAVY FUEL OIL (S<1%)	2.800000081	g/TJ
2024	PAH-4	1A2b	LIGHT FUEL OIL (S=0.0915%)	2.800000015	g/TJ
2024	PAH-4	1A2b	NAPHTHA	2.800000000	g/TJ
2024	PAH-4	1A2b	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2024	PAH-4	1A2c	DIESEL OIL (S=001%)	2.800000000	g/TJ
2024	PAH-4	1A2c	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2024	PAH-4	1A2c	HEAVY FUEL OIL (normal, S>1%)	0.392734413	g/TJ
2024	PAH-4	1A2c	HEAVY FUEL OIL (S<0,1%)	2.799997967	g/TJ
2024	PAH-4	1A2c	HEAVY FUEL OIL (S<1%)	2.799999495	g/TJ
2024	PAH-4	1A2c	LIGHT FUEL OIL (S=0.0915%)	1.779747515	g/TJ
2024	PAH-4	1A2c	METHANOL	0.684590490	g/TJ
2024	PAH-4	1A2c	NAPHTHA	2.800000000	g/TJ
2024	PAH-4	1A2c	OTHER FUEL	2.700000000	g/TJ
2024	PAH-4	1A2c	OTHER MEDIUM DISTILLATES	2.800000000	g/TJ
2024	PAH-4	1A2c	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2024	PAH-4	1A2c	OTHER WASTE	2.500000000	g/TJ
2024	PAH-4	1A2c	PETROCHEMICAL BY-PRODUCT OILS	2.800000000	g/TJ
2024	PAH-4	1A2c	RENEWABLE DIESEL	2.799999539	g/TJ
2024	PAH-4	1A2c	TALL PITCH AND OIL	1.847660428	g/TJ
2024	PAH-4	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2024	PAH-4	1A2d	0-FIBRE/BIOLOGICAL SLURRY	5.020958076	g/TJ
2024	PAH-4	1A2d	ANIMAL-BASED FUELS	2.700000000	g/TJ
2024	PAH-4	1A2d	BARK	2.327306402	g/TJ
2024	PAH-4	1A2d	BIO-FUEL OIL	2.800000000	g/TJ
2024	PAH-4	1A2d	BIOLOGICAL SLURRY	2.500003198	g/TJ
2024	PAH-4	1A2d	CHIPS FROM ROUNDWOOD	2.700000330	g/TJ
2024	PAH-4	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.939951058	g/TJ
2024	PAH-4	1A2d	COAL (S=1.0%)	0.012000001	g/TJ
2024	PAH-4	1A2d	CUTTER CHIPS ETC.	2.412447260	g/TJ
2024	PAH-4	1A2d	DEMOLITION WOOD	2.500009999	g/TJ
2024	PAH-4	1A2d	FOREST RESIDUE CHIPS	2.627688136	g/TJ
2024	PAH-4	1A2d	GASOIL (FOR NON-ROAD USE)	2.783237863	g/TJ
2024	PAH-4	1A2d	HEAVY FUEL OIL (S<0,1%)	2.800000207	g/TJ
2024	PAH-4	1A2d	HEAVY FUEL OIL (S<0,5%)	2.800000000	g/TJ
2024	PAH-4	1A2d	HEAVY FUEL OIL (S<1%)	2.832948133	g/TJ
2024	PAH-4	1A2d	IMPREGNATED WOOD	2.500000000	g/TJ
2024	PAH-4	1A2d	INDUSTRIAL WASTE	2.500000000	g/TJ
2024	PAH-4	1A2d	LIGHT FUEL OIL (S=0.0915%)	2.601778749	g/TJ
2024	PAH-4	1A2d	METHANOL	5.536933091	g/TJ
2024	PAH-4	1A2d	MILLED PEAT	0.958684630	g/TJ
2024	PAH-4	1A2d	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	2.700002035	g/TJ
2024	PAH-4	1A2d	OTHER FUEL	2.700001524	g/TJ
2024	PAH-4	1A2d	OTHER WOOD RESIDUE	2.700000000	g/TJ
2024	PAH-4	1A2d	PAPER	2.700000000	g/TJ
2024	PAH-4	1A2d	PLASTIC WASTE	2.499997743	g/TJ
2024	PAH-4	1A2d	RECOVERED WOOD	2.700002661	g/TJ
2024	PAH-4	1A2d	RECYCLED AND WASTE OILS	2.799998058	g/TJ
2024	PAH-4	1A2d	SAWDUST	2.217466547	g/TJ
2024	PAH-4	1A2d	SOD PEAT	1.000000000	g/TJ
2024	PAH-4	1A2d	SOLID RECOVERED FUEL (SRF)	2.500003081	g/TJ
2024	PAH-4	1A2d	TALL PITCH AND OIL	2.359288133	g/TJ
2024	PAH-4	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.442229367	g/TJ
2024	PAH-4	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2024	PAH-4	1A2d	WOOD RESIDUE CHIPS	2.519084185	g/TJ

2024	PAH-4	1A2d	WOOD STUMP CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2e	ANIMAL FATS AND OILS	2.700000000	g/TJ
2024	PAH-4	1A2e	ANIMAL-BASED FUELS	2.700000000	g/TJ
2024	PAH-4	1A2e	BARK	2.699991014	g/TJ
2024	PAH-4	1A2e	BIO-FUEL OIL	2.800000000	g/TJ
2024	PAH-4	1A2e	CHIPS FROM ROUNDWOOD	2.700001298	g/TJ
2024	PAH-4	1A2e	COKE (S=1.0%)	0.011999992	g/TJ
2024	PAH-4	1A2e	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2e	GASOIL (FOR NON-ROAD USE)	2.800001090	g/TJ
2024	PAH-4	1A2e	HEAVY FUEL OIL (S<1%)	2.800000277	g/TJ
2024	PAH-4	1A2e	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A2e	MILLED PEAT	1.000000006	g/TJ
2024	PAH-4	1A2e	MOTOR GASOLINE (S=0.001%)	2.800000000	g/TJ
2024	PAH-4	1A2e	NAPHTHA	2.800000000	g/TJ
2024	PAH-4	1A2e	OTHER MEDIUM DISTILLATES	2.800000000	g/TJ
2024	PAH-4	1A2e	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2024	PAH-4	1A2e	OTHER NON-FOSSIL SOLID	2.700000267	g/TJ
2024	PAH-4	1A2e	PEAT PELLETS AND BRIQUETTES	1.000000000	g/TJ
2024	PAH-4	1A2e	RECOVERED WOOD	2.700000483	g/TJ
2024	PAH-4	1A2e	SAWDUST	2.700000000	g/TJ
2024	PAH-4	1A2e	SOD PEAT	1.000000000	g/TJ
2024	PAH-4	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.700000000	g/TJ
2024	PAH-4	1A2f	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2024	PAH-4	1A2f	COAL (S=1.0%)	0.012000000	g/TJ
2024	PAH-4	1A2f	DIESEL OIL (S=0.001%)	2.799999931	g/TJ
2024	PAH-4	1A2f	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2f	GASOIL (FOR NON-ROAD USE)	2.800002750	g/TJ
2024	PAH-4	1A2f	HEAVY FUEL OIL (S<0,1%)	2.800000000	g/TJ
2024	PAH-4	1A2f	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2024	PAH-4	1A2f	INDUSTRIAL WASTE	2.500000000	g/TJ
2024	PAH-4	1A2f	LIGHT FUEL OIL (S=0.0915%)	2.799999455	g/TJ
2024	PAH-4	1A2f	MOTOR GASOLINE (S=0.001%)	2.799997866	g/TJ
2024	PAH-4	1A2f	OTHER FOSSIL LIQUID	2.800000000	g/TJ
2024	PAH-4	1A2f	OTHER FUEL	2.700000000	g/TJ
2024	PAH-4	1A2f	OTHER HEAVY DISTILLATES	2.800000206	g/TJ
2024	PAH-4	1A2f	PETROLEUM COKE	0.012000000	g/TJ
2024	PAH-4	1A2f	PLASTIC WASTE	2.500000000	g/TJ
2024	PAH-4	1A2f	RECOVERED WOOD	2.700000000	g/TJ
2024	PAH-4	1A2f	RECYCLED AND WASTE OILS	2.800002674	g/TJ
2024	PAH-4	1A2f	RUBBER WASTE	2.500000000	g/TJ
2024	PAH-4	1A2f	SAWDUST	2.700000000	g/TJ
2024	PAH-4	1A2f	SOLID RECOVERED FUEL (SRF)	2.500000000	g/TJ
2024	PAH-4	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.699997116	g/TJ
2024	PAH-4	1A2gvii	GASOIL (FOR NON-ROAD USE)	1.947043230	g/TJ
2024	PAH-4	1A2gvii	LIQUID GAS	1.727861771	g/TJ
2024	PAH-4	1A2gvii	MOTOR GASOLINE (S=0.001%)	2.109671655	g/TJ
2024	PAH-4	1A2gviii	ANIMAL-BASED FUELS	2.699997744	g/TJ
2024	PAH-4	1A2gviii	BARK	2.721435080	g/TJ
2024	PAH-4	1A2gviii	BIO-FUEL OIL	2.800000000	g/TJ
2024	PAH-4	1A2gviii	BIOLOGICAL SLURRY	2.500000000	g/TJ
2024	PAH-4	1A2gviii	CHIPS FROM ROUNDWOOD	2.812248455	g/TJ
2024	PAH-4	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	2.700000000	g/TJ
2024	PAH-4	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	2.700000000	g/TJ
2024	PAH-4	1A2gviii	CUTTER CHIPS ETC.	2.714485925	g/TJ
2024	PAH-4	1A2gviii	DECIDUOUS TREE	2.700000000	g/TJ
2024	PAH-4	1A2gviii	DEMOLITION WOOD	2.621369504	g/TJ

2024	PAH-4	1A2gviii	DIESEL OIL (S=001%)	2.799999778	g/TJ
2024	PAH-4	1A2gviii	FOREST RESIDUE CHIPS	1.413516567	g/TJ
2024	PAH-4	1A2gviii	FOREST RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2gviii	GASOIL (FOR NON-ROAD USE)	2.810330188	g/TJ
2024	PAH-4	1A2gviii	HAZARDOUS WASTE	2.500000000	g/TJ
2024	PAH-4	1A2gviii	HEAVY FUEL OIL (S<0,1%)	2.800000000	g/TJ
2024	PAH-4	1A2gviii	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2024	PAH-4	1A2gviii	IMPREGNATED WOOD	2.500000000	g/TJ
2024	PAH-4	1A2gviii	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A2gviii	MANURE	2.700000000	g/TJ
2024	PAH-4	1A2gviii	MILLED PEAT	1.008054173	g/TJ
2024	PAH-4	1A2gviii	MUNICIPAL WASTE - unsorted	34.000000000	g/TJ
2024	PAH-4	1A2gviii	NAPHTHA	2.799999729	g/TJ
2024	PAH-4	1A2gviii	OTHER BY-PRODUCTS FROM WOOD PROCESSING INDUSTRY	2.702957196	g/TJ
2024	PAH-4	1A2gviii	OTHER HEAVY DISTILLATES	2.800000000	g/TJ
2024	PAH-4	1A2gviii	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2024	PAH-4	1A2gviii	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2024	PAH-4	1A2gviii	OTHER WOOD RESIDUE	2.699997214	g/TJ
2024	PAH-4	1A2gviii	PLASTIC WASTE	2.500005942	g/TJ
2024	PAH-4	1A2gviii	RECOVERED WOOD	2.768127439	g/TJ
2024	PAH-4	1A2gviii	RECYCLED AND WASTE OILS	2.800000000	g/TJ
2024	PAH-4	1A2gviii	RENEWABLE DIESEL	2.799996265	g/TJ
2024	PAH-4	1A2gviii	SAWDUST	2.782436924	g/TJ
2024	PAH-4	1A2gviii	SAWDUST AND CUTTER CHIPS	2.700000000	g/TJ
2024	PAH-4	1A2gviii	SOD PEAT	1.000000112	g/TJ
2024	PAH-4	1A2gviii	SOLID RECOVERED FUEL (SRF)	2.606091514	g/TJ
2024	PAH-4	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	2.701992564	g/TJ
2024	PAH-4	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	2.716098248	g/TJ
2024	PAH-4	1A2gviii	WOOD RESIDUE CHIPS	2.703366266	g/TJ
2024	PAH-4	1A2gviii	WOOD STUMP CHIPS	2.833144305	g/TJ
2024	PAH-4	1A3bi	DIESEL OIL (S=001%)	3.638420761	g/TJ
2024	PAH-4	1A3bi	MOTOR GASOLINE (S=0.001%)	0.659172523	g/TJ
2024	PAH-4	1A3bi	NATURAL GAS	0.868979845	g/TJ
2024	PAH-4	1A3bii	DIESEL OIL (S=001%)	2.878378895	g/TJ
2024	PAH-4	1A3bii	MOTOR GASOLINE (S=0.001%)	0.529166258	g/TJ
2024	PAH-4	1A3biii	DIESEL OIL (S=001%)	1.128370337	g/TJ
2024	PAH-4	1A3biii	MOTOR GASOLINE (S=0.001%)	0.965003891	g/TJ
2024	PAH-4	1A3biii	NATURAL GAS	1.681566056	g/TJ
2024	PAH-4	1A3biv	DIESEL OIL (S=001%)	5.702171446	g/TJ
2024	PAH-4	1A3biv	MOTOR GASOLINE (S=0.001%)	0.959618067	g/TJ
2024	PAH-4	1A3c	GASOIL (FOR NON-ROAD USE)	1.947043230	g/TJ
2024	PAH-4	1A3dii	DIESEL OIL (S=001%)	0.640017178	g/TJ
2024	PAH-4	1A3dii	GASOIL (FOR NON-ROAD USE)	0.538828545	g/TJ
2024	PAH-4	1A3dii	HEAVY FUEL OIL (normal, S>1%)	1.520190024	g/TJ
2024	PAH-4	1A4ai	BIO-FUEL OIL	2.800000000	g/TJ
2024	PAH-4	1A4ai	FOREST WOODFUEL	0.500000000	g/TJ
2024	PAH-4	1A4ai	GASOIL (FOR NON-ROAD USE)	2.799999935	g/TJ
2024	PAH-4	1A4ai	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2024	PAH-4	1A4ai	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A4ai	NAPHTHA	2.800000000	g/TJ
2024	PAH-4	1A4ai	SOD PEAT	1.000000000	g/TJ
2024	PAH-4	1A4aii	GASOIL (FOR NON-ROAD USE)	1.947043230	g/TJ
2024	PAH-4	1A4aii	MOTOR GASOLINE (S=0.001%)	2.109671655	g/TJ
2024	PAH-4	1A4bi	FOREST WOODFUEL	382.343844912	g/TJ
2024	PAH-4	1A4bi	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A4bi	PARAFFIN	2.800000000	g/TJ

2024	PAH-4	1A4bi	SOD PEAT	1.000000000	g/TJ
2024	PAH-4	1A4bii	GASOIL (FOR NON-ROAD USE)	1.947043230	g/TJ
2024	PAH-4	1A4bii	MOTOR GASOLINE (S=0.001%)	2.109671655	g/TJ
2024	PAH-4	1A4ci	ANIMAL-BASED FUELS	2.700000000	g/TJ
2024	PAH-4	1A4ci	CHIPS FROM ROUNDWOOD	2.700000000	g/TJ
2024	PAH-4	1A4ci	CHIPS FROM ROUNDWOOD, SMALL	2.700000000	g/TJ
2024	PAH-4	1A4ci	FOREST RESIDUE CHIPS	1.479644351	g/TJ
2024	PAH-4	1A4ci	FOREST WOODFUEL	0.500000000	g/TJ
2024	PAH-4	1A4ci	GASOIL (FOR NON-ROAD USE)	2.800000000	g/TJ
2024	PAH-4	1A4ci	HEAVY FUEL OIL (S<1%)	2.800000000	g/TJ
2024	PAH-4	1A4ci	LIGHT FUEL OIL (S=0.0915%)	2.800000000	g/TJ
2024	PAH-4	1A4ci	MILLED PEAT	1.000000000	g/TJ
2024	PAH-4	1A4ci	OTHER NON-FOSSIL SOLID	2.700000000	g/TJ
2024	PAH-4	1A4ci	RECOVERED WOOD	2.700000000	g/TJ
2024	PAH-4	1A4ci	SOD PEAT	1.000000000	g/TJ
2024	PAH-4	1A4ci	WOOD RESIDUE CHIPS	2.700000000	g/TJ
2024	PAH-4	1A4cii	GASOIL (FOR NON-ROAD USE)	1.947043230	g/TJ
2024	PAH-4	1A4cii	MOTOR GASOLINE (S=0.001%)	2.109671655	g/TJ
2024	PAH-4	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.559774929	g/TJ
2024	PAH-4	1A5a	FOREST WOODFUEL	2.700000000	g/TJ
2024	PAH-4	1A5a	LIGHT FUEL OIL (S=0.0915%)	2.899624329	g/TJ
2024	PAH-4	1A5a	OTHER PETROLEUM PRODUCTS	2.800000000	g/TJ

HCB Implied emission factors in Finnish air pollutant inventory for 2024

2024	HCB	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.000005000	kg/TJ
2024	HCB	1A1a	ANTHRACITE	0.000000007	kg/TJ
2024	HCB	1A1a	BARK	0.000005000	kg/TJ
2024	HCB	1A1a	BIOLOGICAL SLURRY	0.000005000	kg/TJ
2024	HCB	1A1a	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2024	HCB	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.000005000	kg/TJ
2024	HCB	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.000005000	kg/TJ
2024	HCB	1A1a	COAL (S=1.0%)	0.000000007	kg/TJ
2024	HCB	1A1a	CUTTER CHIPS ETC.	0.000005000	kg/TJ
2024	HCB	1A1a	DEMOLITION WOOD	0.000005000	kg/TJ
2024	HCB	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.000005000	kg/TJ
2024	HCB	1A1a	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A1a	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A1a	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A1a	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A1a	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A1a	PAPER	0.000005000	kg/TJ
2024	HCB	1A1a	RECOVERED WOOD	0.000005000	kg/TJ
2024	HCB	1A1a	SAWDUST	0.000005000	kg/TJ
2024	HCB	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A1a	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A1a	WOOD STUMP CHIPS	0.000005000	kg/TJ
2024	HCB	1A2a	COKE (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2a	OTHER FOSSIL SOLID	0.000000620	kg/TJ
2024	HCB	1A2a	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2b	COAL (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2b	COKE (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2c	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000005000	kg/TJ

2024	HCB	1A2d	BARK	0.000005000	kg/TJ
2024	HCB	1A2d	BIOLOGICAL SLURRY	0.000005000	kg/TJ
2024	HCB	1A2d	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2024	HCB	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000005000	kg/TJ
2024	HCB	1A2d	COAL (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2d	CUTTER CHIPS ETC.	0.000005000	kg/TJ
2024	HCB	1A2d	DEMOLITION WOOD	0.000005000	kg/TJ
2024	HCB	1A2d	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2d	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A2d	PAPER	0.000005000	kg/TJ
2024	HCB	1A2d	RECOVERED WOOD	0.000005000	kg/TJ
2024	HCB	1A2d	SAWDUST	0.000005000	kg/TJ
2024	HCB	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A2d	WOOD RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2d	WOOD STUMP CHIPS	0.000005000	kg/TJ
2024	HCB	1A2e	BARK	0.000005000	kg/TJ
2024	HCB	1A2e	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2024	HCB	1A2e	COKE (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2e	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2e	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A2e	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A2e	RECOVERED WOOD	0.000005000	kg/TJ
2024	HCB	1A2e	SAWDUST	0.000005000	kg/TJ
2024	HCB	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A2f	CHIPS FROM ROUNDWOOD	0.000005000	kg/TJ
2024	HCB	1A2f	COAL (S=1.0%)	0.000000620	kg/TJ
2024	HCB	1A2f	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2f	RECOVERED WOOD	0.000005000	kg/TJ
2024	HCB	1A2f	SAWDUST	0.000005000	kg/TJ
2024	HCB	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A2gviii	BARK	0.000004356	kg/TJ
2024	HCB	1A2gviii	BIOLOGICAL SLURRY	0.000005000	kg/TJ
2024	HCB	1A2gviii	CHIPS FROM ROUNDWOOD	0.000004949	kg/TJ
2024	HCB	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000005000	kg/TJ
2024	HCB	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.000005000	kg/TJ
2024	HCB	1A2gviii	CUTTER CHIPS ETC.	0.000005000	kg/TJ
2024	HCB	1A2gviii	DEMOLITION WOOD	0.000005000	kg/TJ
2024	HCB	1A2gviii	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2gviii	FOREST RESIDUE CHIPS	0.000005000	kg/TJ
2024	HCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000005000	kg/TJ
2024	HCB	1A2gviii	OTHER WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A2gviii	RECOVERED WOOD	0.000005000	kg/TJ
2024	HCB	1A2gviii	SAWDUST	0.000005000	kg/TJ
2024	HCB	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000005000	kg/TJ
2024	HCB	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000005000	kg/TJ
2024	HCB	1A2gviii	WOOD RESIDUE CHIPS	0.000005947	kg/TJ
2024	HCB	1A2gviii	WOOD STUMP CHIPS	0.000005000	kg/TJ
2024	HCB	1A3bi	DIESEL OIL (S=001%)	0.000000010	kg/TJ
2024	HCB	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000000004	kg/TJ
2024	HCB	1A3bi	NATURAL GAS	0.000000004	kg/TJ
2024	HCB	1A3bii	DIESEL OIL (S=001%)	0.000000009	kg/TJ
2024	HCB	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000000004	kg/TJ
2024	HCB	1A3biii	DIESEL OIL (S=001%)	0.000000001	kg/TJ
2024	HCB	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000000001	kg/TJ

2024	HCB	1A3biii	NATURAL GAS	0.000000001	kg/TJ
2024	HCB	1A3biv	DIESEL OIL (S=001%)	0.000000044	kg/TJ
2024	HCB	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000000010	kg/TJ
2024	HCB	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000001874	kg/TJ
2024	HCB	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.000003325	kg/TJ
2024	HCB	1A4ai	FOREST WOODFUEL	0.000005000	kg/TJ
2024	HCB	1A4bi	FOREST WOODFUEL	0.000005000	kg/TJ
2024	HCB	1A4ci	FOREST WOODFUEL	0.000005000	kg/TJ
2024	HCB	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000001947	kg/TJ
2024	HCB	1A5a	FOREST WOODFUEL	0.000001000	kg/TJ
2024	HCB	1A5a	LIGHT FUEL OIL (S=0.0915%)	0.000000237	kg/TJ

PCB Implied emission factors in Finnish air pollutant inventory for 2024

2024	PCB	1A1a	0-FIBRE/BIOLOGICAL SLURRY	0.003500000	g/TJ
2024	PCB	1A1a	ANTHRACITE	0.000003300	g/TJ
2024	PCB	1A1a	BARK	0.003500000	g/TJ
2024	PCB	1A1a	BIOLOGICAL SLURRY	0.003500000	g/TJ
2024	PCB	1A1a	CHIPS FROM ROUNDWOOD	0.003500000	g/TJ
2024	PCB	1A1a	CHIPS FROM ROUNDWOOD, LARGE	0.003500000	g/TJ
2024	PCB	1A1a	CHIPS FROM ROUNDWOOD, SMALL	0.003500000	g/TJ
2024	PCB	1A1a	COAL (S=1.0%)	0.000003300	g/TJ
2024	PCB	1A1a	CUTTER CHIPS ETC.	0.003500000	g/TJ
2024	PCB	1A1a	DEMOLITION WOOD	0.003500000	g/TJ
2024	PCB	1A1a	FIREWOOD (STEMS AND SPLIT FIREWOOD)	0.003500000	g/TJ
2024	PCB	1A1a	FOREST RESIDUE CHIPS	0.003500000	g/TJ
2024	PCB	1A1a	FOREST RESIDUE CHIPS	0.003500000	g/TJ
2024	PCB	1A1a	OTHER NON-FOSSIL SOLID	0.003500000	g/TJ
2024	PCB	1A1a	OTHER NON-FOSSIL SOLID	0.003500000	g/TJ
2024	PCB	1A1a	OTHER WOOD RESIDUE	0.003500000	g/TJ
2024	PCB	1A1a	PAPER	0.003500000	g/TJ
2024	PCB	1A1a	RECOVERED WOOD	0.003500000	g/TJ
2024	PCB	1A1a	SAWDUST	0.003500000	g/TJ
2024	PCB	1A1a	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.003500000	g/TJ
2024	PCB	1A1a	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.003500000	g/TJ
2024	PCB	1A1a	WOOD RESIDUE CHIPS	0.003500000	g/TJ
2024	PCB	1A1a	WOOD STUMP CHIPS	0.003500000	g/TJ
2024	PCB	1A2a	COKE (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2a	OTHER FOSSIL SOLID	0.170000000	g/TJ
2024	PCB	1A2a	WOOD RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2b	COAL (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2b	COKE (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2c	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2024	PCB	1A2c	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2024	PCB	1A2d	0-FIBRE/BIOLOGICAL SLURRY	0.000060000	g/TJ
2024	PCB	1A2d	BARK	0.000060000	g/TJ
2024	PCB	1A2d	BIOLOGICAL SLURRY	0.000060000	g/TJ
2024	PCB	1A2d	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2024	PCB	1A2d	CHIPS FROM ROUNDWOOD, SMALL	0.000060000	g/TJ
2024	PCB	1A2d	COAL (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2d	CUTTER CHIPS ETC.	0.000060000	g/TJ
2024	PCB	1A2d	DEMOLITION WOOD	0.000060000	g/TJ
2024	PCB	1A2d	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2d	OTHER WOOD RESIDUE	0.000060000	g/TJ
2024	PCB	1A2d	PAPER	0.000060000	g/TJ
2024	PCB	1A2d	RECOVERED WOOD	0.000060000	g/TJ

2024	PCB	1A2d	SAWDUST	0.000060000	g/TJ
2024	PCB	1A2d	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000060000	g/TJ
2024	PCB	1A2d	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2024	PCB	1A2d	WOOD RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2d	WOOD STUMP CHIPS	0.000060000	g/TJ
2024	PCB	1A2e	BARK	0.000060000	g/TJ
2024	PCB	1A2e	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2024	PCB	1A2e	COKE (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2e	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2e	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2024	PCB	1A2e	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2024	PCB	1A2e	RECOVERED WOOD	0.000060000	g/TJ
2024	PCB	1A2e	SAWDUST	0.000060000	g/TJ
2024	PCB	1A2e	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2024	PCB	1A2f	CHIPS FROM ROUNDWOOD	0.000060000	g/TJ
2024	PCB	1A2f	COAL (S=1.0%)	0.170000000	g/TJ
2024	PCB	1A2f	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2f	RECOVERED WOOD	0.000060000	g/TJ
2024	PCB	1A2f	SAWDUST	0.000060000	g/TJ
2024	PCB	1A2f	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2024	PCB	1A2gviii	BARK	0.000052268	g/TJ
2024	PCB	1A2gviii	BIOLOGICAL SLURRY	0.000060000	g/TJ
2024	PCB	1A2gviii	CHIPS FROM ROUNDWOOD	0.000059392	g/TJ
2024	PCB	1A2gviii	CHIPS FROM ROUNDWOOD, LARGE	0.000060000	g/TJ
2024	PCB	1A2gviii	CHIPS FROM ROUNDWOOD, SMALL	0.000060000	g/TJ
2024	PCB	1A2gviii	CUTTER CHIPS ETC.	0.000060000	g/TJ
2024	PCB	1A2gviii	DEMOLITION WOOD	0.000060000	g/TJ
2024	PCB	1A2gviii	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2gviii	FOREST RESIDUE CHIPS	0.000060000	g/TJ
2024	PCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2024	PCB	1A2gviii	OTHER NON-FOSSIL SOLID	0.000060000	g/TJ
2024	PCB	1A2gviii	OTHER WOOD RESIDUE	0.000060000	g/TJ
2024	PCB	1A2gviii	RECOVERED WOOD	0.000060000	g/TJ
2024	PCB	1A2gviii	SAWDUST	0.000060000	g/TJ
2024	PCB	1A2gviii	UNSPECIFIED INDUSTRIAL WOOD RESIDUE	0.000060000	g/TJ
2024	PCB	1A2gviii	WOOD PELLETS AND BRIQUETTES (REFINED WOOD FUELS)	0.000060000	g/TJ
2024	PCB	1A2gviii	WOOD RESIDUE CHIPS	0.000071365	g/TJ
2024	PCB	1A2gviii	WOOD STUMP CHIPS	0.000060000	g/TJ
2024	PCB	1A3bi	DIESEL OIL (S=001%)	0.000002053	g/TJ
2024	PCB	1A3bi	MOTOR GASOLINE (S=0.001%)	0.000000772	g/TJ
2024	PCB	1A3bi	NATURAL GAS	0.000000889	g/TJ
2024	PCB	1A3bii	DIESEL OIL (S=001%)	0.000001828	g/TJ
2024	PCB	1A3bii	MOTOR GASOLINE (S=0.001%)	0.000002107	g/TJ
2024	PCB	1A3biii	DIESEL OIL (S=001%)	0.000000244	g/TJ
2024	PCB	1A3biii	MOTOR GASOLINE (S=0.001%)	0.000000760	g/TJ
2024	PCB	1A3biii	NATURAL GAS	0.000000148	g/TJ
2024	PCB	1A3biv	DIESEL OIL (S=001%)	0.000008823	g/TJ
2024	PCB	1A3biv	MOTOR GASOLINE (S=0.001%)	0.000003423	g/TJ
2024	PCB	1A3dii	GASOIL (FOR NON-ROAD USE)	0.000890238	g/TJ
2024	PCB	1A3dii	HEAVY FUEL OIL (normal, S>1%)	0.013539192	g/TJ
2024	PCB	1A4ai	FOREST WOODFUEL	0.000060000	g/TJ
2024	PCB	1A4ai	HEAVY FUEL OIL (S<1%)	0.000087591	g/TJ
2024	PCB	1A4ai	LIGHT FUEL OIL (S=0.0915%)	0.000084000	g/TJ
2024	PCB	1A4ai	SOD PEAT	0.000055432	g/TJ
2024	PCB	1A4bi	FOREST WOODFUEL	0.000060000	g/TJ
2024	PCB	1A4bi	LIGHT FUEL OIL (S=0.0915%)	0.000084309	g/TJ

2024	PCB	1A4bi	SOD PEAT	0.000073171	g/TJ
2024	PCB	1A4ci	FOREST WOODFUEL	0.000060000	g/TJ
2024	PCB	1A4ci	HEAVY FUEL OIL (S<1%)	0.000077466	g/TJ
2024	PCB	1A4ci	LIGHT FUEL OIL (S=0.0915%)	0.000013625	g/TJ
2024	PCB	1A4ci	SOD PEAT	0.000070854	g/TJ
2024	PCB	1A4ciii	GASOIL (FOR NON-ROAD USE)	0.000924846	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 > Päästökisterit > 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 > Päästökisterit)
> 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	

(1large 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 .

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

- Melanen et al. (1999). Raskasmetallien päästöt ilmaan Suomessa 1990-luvulla Suomen ympäristö 329. Suomen ympäristökeskus 1999. p. 86 //Kivihiili: Taulukko 3. Liite 5. (s. 69).Turve: Taulukko 4. Liite 6. (s. 72) . In Finnish
- Kouvo Petri (2003). Formation and control of trace metal emissions in co-firing of biomass, peat and wastes in fluidized bed combustors. Lappeenrannan teknillinen yliopisto. Academic Dissertation. 148. 2003.
- Harju. t. and Munthe. J. (2000). Optimal utilisation of coal in modern power plants with respect to mass flows and emissions of VOC/PAHs and mercury. OMPAC. VTT 31.12.2000. p. 238. Workpackage PIV.1 Field measurement campaign in Helsinki Energy (T. Harju/VTT. J. Munthe/IVL)
- Helsingin Energia/Fortum (2003). Kivihiilen kertoimet sähkösuotimen ja rikinpoiston jälkeen perustuvat suomalaisilta laitoksilta saatuihin mittaus-/ominaispäästötietoihin. In Finnish

Annex 3

Basis of Estimation of Emissions from Transport

Basis for estimating emissions from mobile sources.

NFR19	Description	Fuel sold	Fuel used
1A3ai(i)	International aviation (LTO)	x	
1A3ai(ii)	International aviation (Cruise)	x	
1A3aii(i)	1A3aii Civil aviation (Domestic, LTO)	x	
1A3aii(ii)	1A3aii Civil Aviation (Domestic, Cruise)	x	
1A3b	Road transport	x	
1A3c	Railways	x	
1A3di(i)	International maritime navigation	x	
1A3dii	National navigation	x	
1A4aii	Commercial/institutional	x	
1A4bii	Residential: Household and gardening	x	
1A4cii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery	x	
1A4ciii	National fishing	x	
1A5b	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.

NATIONAL 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.

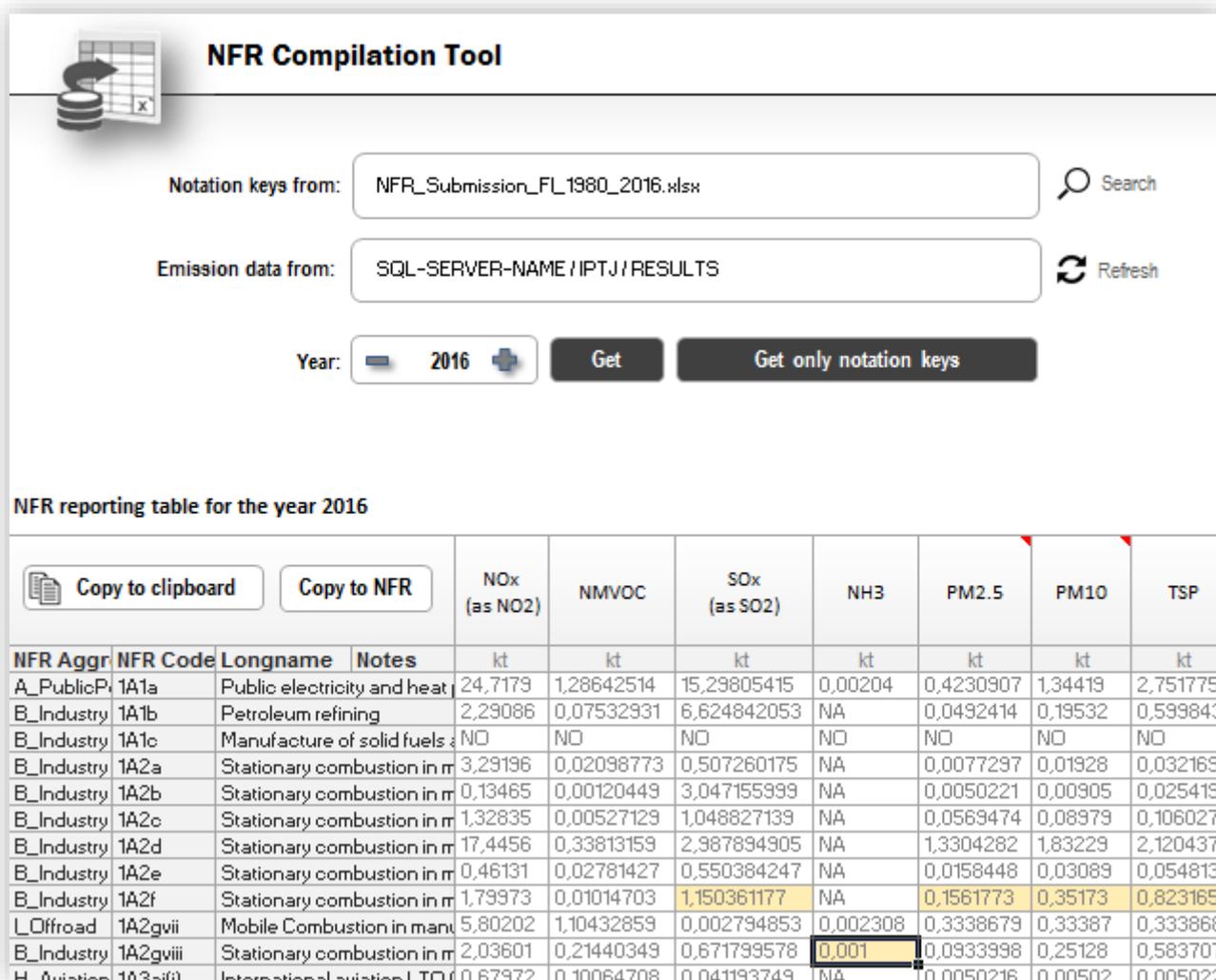


Figure 1 - A screenshot of the NFR compilation tool

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	<i>First in series (not checked)</i>
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	<i>Last in series (not checked)</i>

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 2026 (TF)

Uncertainty analysis to the 2026 submission, 2024 data

1 Methodology

Changes in chapter	
March 2026	TF

The uncertainty analysis for emission data is carried out following the Approach 1 methodology presented in the EMEP/EEA emission inventory guidebook 2023. 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 1.8.

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 2026	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 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1.017	7.731	9.6	50.0	50.9	18.289	660.400	1.8
NOx	1A1a	Gaseous	8.859	0.641	9.7	50.0	50.9	0.126	-92.761	0.2
NOx	1A1a	Liquid	3.798	0.840	9.8	50.0	50.9	0.216	-77.889	0.2
NOx	1A1a	Other	0.006	1.736	10.0	50.0	51.0	0.925	29035.873	0.4
NOx	1A1a	Peat	9.791	1.815	5.9	50.0	50.3	0.986	-81.461	0.4
NOx	1A1a	Solid	36.204	0.852	10.0		10.0	0.009	-97.645	0.0
NOx	1A1b	Biomass		0.028	10.0		10.0	0.000	NA	0.0
NOx	1A1b	Gaseous	1.269	0.152	10.0		10.0	0.000	-88.029	0.0
NOx	1A1b	Liquid	2.045	0.916	10.0		10.0	0.010	-55.216	0.0
NOx	1A1b	Solid	0.005	0.002	10.0		10.0	0.000	-67.907	0.0
NOx	1A2a	Biomass		0.003	10.0		10.0	0.000	NA	0.0
NOx	1A2a	Gaseous	0.203	1.004	10.0		10.0	0.012	394.730	0.0
NOx	1A2a	Liquid	0.466	0.063	9.7	50.0	50.9	0.001	-86.525	0.0
NOx	1A2a	Solid	2.398	1.970	10.0		10.0	0.046	-17.861	0.1
NOx	1A2b	Gaseous		0.000	9.1	50.0	50.8	0.000	NA	0.0
NOx	1A2b	Liquid	0.240	0.076	8.0	50.0	50.6	0.002	-68.194	0.0
NOx	1A2b	Solid	0.422	0.018	9.7	50.0	50.9	0.000	-95.784	0.0
NOx	1A2c	Biomass	0.089	0.058	9.9	50.0	51.0	0.001	-34.817	0.0
NOx	1A2c	Gaseous	0.181	0.133	9.8	50.0	51.0	0.005	-26.219	0.0
NOx	1A2c	Liquid	1.137	1.042	9.7	50.0	50.9	0.332	-8.367	0.2
NOx	1A2c	Other	0.152	0.005	10.0		10.0	0.000	-96.416	0.0
NOx	1A2d	Biomass	8.656	11.096	9.7	50.0	50.9	37.719	28.197	2.6
NOx	1A2d	Gaseous	3.395	0.801	9.6	50.0	50.9	0.196	-76.406	0.2
NOx	1A2d	Liquid	2.136	0.530	9.6	50.0	50.9	0.086	-75.209	0.1
NOx	1A2d	Other	0.044	0.274	10.0	50.0	51.0	0.023	521.643	0.1
NOx	1A2d	Peat	1.476	0.282	10.0		10.0	0.001	-80.923	0.0
NOx	1A2d	Solid	2.455	0.006	10.0		10.0	0.000	-99.770	0.0
NOx	1A2e	Biomass	0.033	0.103	8.5	50.0	50.7	0.003	216.479	0.0
NOx	1A2e	Gaseous	0.088	0.032	8.1	50.0	50.6	0.000	-63.943	0.0
NOx	1A2e	Liquid	0.662	0.040	6.0	50.0	50.4	0.000	-93.968	0.0
NOx	1A2e	Peat	0.165	0.129	10.0		10.0	0.000	-21.713	0.0
NOx	1A2e	Solid	0.247	0.000	10.0		10.0	0.000	-99.899	0.0
NOx	1A2f	Biomass	0.000	0.017	8.1	50.0	50.6	0.000	6983.971	0.0
NOx	1A2f	Gaseous	0.261	0.060	9.8	50.0	50.9	0.001	-76.996	0.0
NOx	1A2f	Liquid	0.665	0.864	8.6	50.0	50.7	0.227	30.037	0.2
NOx	1A2f	Other	0.580	0.361	10.0		10.0	0.002	-37.677	0.0
NOx	1A2f	Solid	3.724	0.152	10.0		10.0	0.000	-95.914	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NOx	1A2gvii	Liquid	12.650	3.901	4.9	50.0	50.2	4.537	-69.159	0.9
NOx	1A2gviii	Biomass	0.862	0.934	8.1	50.0	50.6	0.264	8.310	0.2
NOx	1A2gviii	Gaseous	0.075	0.105	8.6	50.0	50.7	0.003	39.817	0.0
NOx	1A2gviii	Liquid	1.266	0.168	8.4	50.0	50.7	0.009	-86.727	0.0
NOx	1A2gviii	Other	0.148	0.628	10.0	50.0	51.0	0.121	325.001	0.1
NOx	1A2gviii	Peat	0.046	0.043	8.6	50.0	50.7	0.001	-5.620	0.0
NOx	1A3ai(i)	Liquid	0.251	0.729	5.0	50.0	50.2	0.159	190.536	0.2
NOx	1A3aii(i)	Liquid	0.311	0.129	5.0	50.0	50.2	0.005	-58.480	0.0
NOx	1A3bi	Diesel oil	6.783	7.092	1.0	50.0	50.0	14.855	4.549	1.6
NOx	1A3bi	Gaseous		0.006	3.0	50.0	50.1	0.000	NA	0.0
NOx	1A3bi	Gasoline	62.636	2.216	2.0	50.0	50.0	1.453	-96.462	0.5
NOx	1A3bii	Diesel oil	4.439	5.507	1.0	50.0	50.0	8.956	24.050	1.3
NOx	1A3bii	Gasoline	1.532	0.052	2.0	50.0	50.0	0.001	-96.613	0.0
NOx	1A3biii	Diesel oil	58.866	6.647	1.0	50.0	50.0	13.049	-88.708	1.5
NOx	1A3biii	Gaseous		0.068	3.0	50.0	50.1	0.001	NA	0.0
NOx	1A3biii	Liquid		0.181	2.0	50.0	50.0	0.010	NA	0.0
NOx	1A3biv	Diesel oil		0.016	1.0	50.0	50.0	0.000	NA	0.0
NOx	1A3biv	Gasoline	0.065	0.130	2.0	50.0	50.0	0.005	98.935	0.0
NOx	1A3c	Liquid	4.212	0.900	2.0	50.0	50.0	0.239	-78.634	0.2
NOx	1A3dii	Gaseous		0.060	30.0	50.0	58.3	0.001	NA	0.0
NOx	1A3dii	Liquid	9.130	4.058	8.6	50.0	50.7	5.006	-55.551	0.9
NOx	1A3ei	Gaseous	0.009	0.000	10.0		10.0	0.000	-99.730	0.0
NOx	1A4ai	Biomass	0.156	0.256	20.0	50.0	53.8	0.023	64.604	0.1
NOx	1A4ai	Gaseous	0.043	0.027	9.9	50.0	51.0	0.000	-38.517	0.0
NOx	1A4ai	Liquid	2.314	0.824	12.7	50.0	51.6	0.214	-64.379	0.2
NOx	1A4ai	Peat	0.015	0.012	15.0	50.0	52.2	0.000	-17.595	0.0
NOx	1A4aii	Liquid	5.216	0.875	12.8	50.0	51.6	0.241	-83.235	0.2
NOx	1A4bi	Biomass	3.303	3.586	20.0	50.0	53.9	4.405	8.571	0.9
NOx	1A4bi	Gaseous	0.030	0.013	10.0	50.0	51.0	0.000	-57.591	0.0
NOx	1A4bi	Liquid	3.114	0.218	13.8	50.0	51.9	0.015	-93.006	0.1
NOx	1A4bi	Other	0.003	0.000	10.0	50.0	51.0	0.000	-97.674	0.0
NOx	1A4bi	Peat	0.065	0.004	15.0	50.0	52.2	0.000	-93.385	0.0
NOx	1A4bii	Liquid	0.396	0.868	11.3	50.0	51.3	0.234	119.307	0.2
NOx	1A4ci	Biomass	0.520	0.439	18.7	50.0	53.4	0.065	-15.646	0.1
NOx	1A4ci	Gaseous	0.056	0.001	10.0	50.0	51.0	0.000	-98.407	0.0
NOx	1A4ci	Liquid	0.744	0.265	13.1	50.0	51.7	0.022	-64.376	0.1
NOx	1A4ci	Peat	0.040	0.175	9.3	50.0	50.9	0.009	337.401	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NOx	1A4cii	Liquid	12.825	1.477	14.6	50.0	52.1	0.699	-88.485	0.4
NOx	1A4ciii	Liquid	3.580	1.512	15.0	50.0	52.2	0.736	-57.746	0.4
NOx	1A5a	Biomass	0.032	1.809	10.0	50.0	51.0	1.005	5543.833	0.4
NOx	1A5a	Gaseous	0.116	0.457	14.6	50.0	52.1	0.067	293.755	0.1
NOx	1A5a	Liquid	2.178	1.949	12.2	50.0	51.5	1.188	-10.550	0.5
NOx	2B10a		0.061	0.106	29.3		29.3	0.001	73.388	0.0
NOx	2B2		0.744	0.236	20.0		20.0	0.003	-68.242	0.0
NOx	2G		0.016	0.007	35.0	100.0	105.9	0.000	-54.860	0.0
NOx	3B1a		0.166	0.036	3.0	200.0	200.0	0.006	-78.457	0.0
NOx	3B1b		0.157	0.189	3.0	200.0	200.0	0.168	19.879	0.2
NOx	3B2		0.006	0.007	5.0	200.0	200.1	0.000	20.626	0.0
NOx	3B3		0.074	0.006	5.0	200.0	200.1	0.000	-91.746	0.0
NOx	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	-10.615	0.0
NOx	3B4e		0.011	0.018	5.0	200.0	200.1	0.001	66.230	0.0
NOx	3B4gi		0.052	0.053	5.0	200.0	200.1	0.014	1.898	0.0
NOx	3B4gii		0.027	0.103	5.0	200.0	200.1	0.051	281.236	0.1
NOx	3B4giii		0.001	0.010	5.0	200.0	200.1	0.000	744.117	0.0
NOx	3B4giv		0.007	0.003	5.0	200.0	200.1	0.000	-56.286	0.0
NOx	3B4h		0.042	0.013	5.0	200.0	200.1	0.001	-69.449	0.0
NOx	3Da1		9.143	5.640	10.0	100.0	100.5	37.938	-38.318	2.6
NOx	3Da2a		3.275	2.625	45.0	200.0	205.0	34.200	-19.835	2.5
NOx	3Da2b		0.063	0.103	30.0	200.0	202.2	0.051	62.026	0.1
NOx	3Da2c		0.104	0.284	45.0	160.0	166.2	0.262	172.000	0.2
NOx	3Da3		0.785	0.408	45.0	200.0	205.0	0.827	-47.972	0.4
Total			306.880	92.020			13.8		-70.014	5.9

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1.331	6.8	80.0	80.3	2.090	1120.987	0.6
NMVOC	1A1a	Gaseous	0.042	0.028	24.1	80.0	83.5	0.001	-32.858	0.0
NMVOC	1A1a	Liquid	0.027	0.019	8.7	80.0	80.5	0.000	-28.622	0.0
NMVOC	1A1a	Other	0.001	0.278	17.0	80.0	81.8	0.094	26823.845	0.1
NMVOC	1A1a	Peat	0.199	0.113	2.7	80.0	80.0	0.015	-43.173	0.1
NMVOC	1A1a	Solid	0.117	0.015	12.4	80.0	81.0	0.000	-87.160	0.0
NMVOC	1A1b	Biomass		0.001	10.0	80.0	80.6	0.000	NA	0.0
NMVOC	1A1b	Gaseous	0.007	0.002	1.0	80.0	80.0	0.000	-66.341	0.0
NMVOC	1A1b	Liquid	0.005	0.025	4.2	80.0	80.1	0.001	423.572	0.0
NMVOC	1A1b	Solid		0.000	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	0.111	0.004	2.0	80.0	80.0	0.000	-96.459	0.0
NMVOC	1A2a	Liquid	0.003	0.000	4.4	80.0	80.1	0.000	-96.895	0.0
NMVOC	1A2a	Solid	0.017	0.011	2.2	80.0	80.0	0.000	-37.106	0.0
NMVOC	1A2b	Gaseous		0.000	10.0	80.0	80.6	0.000	NA	0.0
NMVOC	1A2b	Liquid	0.001	0.001	3.1	80.0	80.1	0.000	-18.929	0.0
NMVOC	1A2b	Solid	0.000	0.000	4.9	80.0	80.2	0.000	-49.033	0.0
NMVOC	1A2c	Biomass	0.002	0.001	9.4	80.0	80.5	0.000	-67.652	0.0
NMVOC	1A2c	Gaseous	0.002	0.006	4.2	80.0	80.1	0.000	269.257	0.0
NMVOC	1A2c	Liquid	0.004	0.001	3.6	80.0	80.1	0.000	-64.434	0.0
NMVOC	1A2c	Other	0.003	0.000	10.0	80.0	80.6	0.000	-97.449	0.0
NMVOC	1A2d	Biomass	0.430	0.356	3.0	80.0	80.1	0.148	-17.303	0.2
NMVOC	1A2d	Gaseous	0.077	0.009	5.3	80.0	80.2	0.000	-88.627	0.0
NMVOC	1A2d	Liquid	0.174	0.005	1.8	80.0	80.0	0.000	-97.277	0.0
NMVOC	1A2d	Other	0.000	0.015	10.0	80.0	80.6	0.000	5223.739	0.0
NMVOC	1A2d	Peat	0.018	0.006	2.0	80.0	80.0	0.000	-67.329	0.0
NMVOC	1A2d	Solid	0.038	0.000	5.0	80.0	80.2	0.000	-99.611	0.0
NMVOC	1A2e	Biomass	0.007	0.009	7.8	80.0	80.4	0.000	16.549	0.0
NMVOC	1A2e	Gaseous	0.001	0.001	4.3	80.0	80.1	0.000	-16.937	0.0
NMVOC	1A2e	Liquid	0.005	0.000	3.2	80.0	80.1	0.000	-90.637	0.0
NMVOC	1A2e	Peat	0.012	0.005	5.0	80.0	80.2	0.000	-60.062	0.0
NMVOC	1A2e	Solid	0.007	0.000	5.0	80.0	80.2	0.000	-98.757	0.0
NMVOC	1A2f	Biomass	0.000	0.006	7.8	80.0	80.4	0.000	158601.667	0.0
NMVOC	1A2f	Gaseous	0.003	0.001	3.0	80.0	80.1	0.000	-78.124	0.0
NMVOC	1A2f	Liquid	0.005	0.002	2.6	80.0	80.0	0.000	-47.155	0.0
NMVOC	1A2f	Other		0.008	10.0	80.0	80.6	0.000	NA	0.0
NMVOC	1A2f	Solid	0.009	0.001	2.7	80.0	80.0	0.000	-88.648	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NMVOC	1A2gvii	Liquid	2.366	0.859	4.9	80.0	80.2	0.869	-63.686	0.4
NMVOC	1A2gviii	Biomass	0.199	0.162	8.6	80.0	80.5	0.031	-18.796	0.1
NMVOC	1A2gviii	Gaseous	0.002	0.029	29.6	80.0	85.3	0.001	1398.538	0.0
NMVOC	1A2gviii	Liquid	0.017	0.043	28.5	80.0	84.9	0.002	149.335	0.0
NMVOC	1A2gviii	Other	0.011	0.032	9.6	80.0	80.6	0.001	180.223	0.0
NMVOC	1A2gviii	Peat	0.002	0.004	9.9	80.0	80.6	0.000	95.947	0.0
NMVOC	1A3ai(i)	Liquid	0.056	0.069	5.0	80.0	80.2	0.006	23.545	0.0
NMVOC	1A3aii(i)	Liquid	0.056	0.018	5.0	80.0	80.2	0.000	-68.725	0.0
NMVOC	1A3bi	Diesel oil	1.332	0.143	1.0	80.0	80.0	0.024	-89.297	0.1
NMVOC	1A3bi	Gaseous		0.004	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A3bi	Gasoline	49.364	1.400	2.0	80.0	80.0	2.300	-97.163	0.7
NMVOC	1A3bii	Diesel oil	0.796	0.287	1.0	80.0	80.0	0.096	-63.968	0.1
NMVOC	1A3bii	Gasoline	1.669	0.029	2.0	80.0	80.0	0.001	-98.239	0.0
NMVOC	1A3biii	Diesel oil	7.843	0.234	1.0	80.0	80.0	0.064	-97.016	0.1
NMVOC	1A3biii	Gaseous		0.004	3.0	80.0	80.1	0.000	NA	0.0
NMVOC	1A3biii	Liquid		0.103	2.0	80.0	80.0	0.013	NA	0.1
NMVOC	1A3biv	Diesel oil		0.025	1.0	80.0	80.0	0.001	NA	0.0
NMVOC	1A3biv	Gasoline	2.767	0.498	2.0	80.0	80.0	0.290	-82.018	0.2
NMVOC	1A3bv		13.655	2.719	1.0	200.0	200.0	54.139	-80.090	3.3
NMVOC	1A3c	Liquid	0.234	0.053	2.0	80.0	80.0	0.003	-77.174	0.0
NMVOC	1A3dii	Gaseous		0.027	30.0	80.0	85.4	0.001	NA	0.0
NMVOC	1A3dii	Liquid	9.646	2.286	8.6	80.0	80.5	6.197	-76.297	1.1
NMVOC	1A3ei	Gaseous	0.000	0.000	20.0	80.0	82.5	0.000	-98.962	0.0
NMVOC	1A4ai	Biomass	0.007	0.010	20.0	80.0	82.5	0.000	37.727	0.0
NMVOC	1A4ai	Gaseous	0.003	0.002	10.0	80.0	80.6	0.000	-21.364	0.0
NMVOC	1A4ai	Liquid	0.125	0.050	13.0	80.0	81.0	0.003	-59.657	0.0
NMVOC	1A4ai	Peat	0.016	0.016	15.0	80.0	81.4	0.000	2.420	0.0
NMVOC	1A4aii	Liquid	6.267	0.389	12.8	80.0	81.0	0.182	-93.799	0.2
NMVOC	1A4bi	Biomass	17.720	17.578	20.0	80.0	82.5	384.737	-0.796	8.8
NMVOC	1A4bi	Gaseous	0.003	0.001	10.0	80.0	80.6	0.000	-57.591	0.0
NMVOC	1A4bi	Liquid	0.195	0.014	13.8	80.0	81.2	0.000	-92.752	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	0.009	15.0	80.0	81.4	0.000	-93.385	0.0
NMVOC	1A4bii	Liquid	6.597	1.661	11.3	80.0	80.8	3.296	-74.825	0.8
NMVOC	1A4ci	Biomass	0.020	0.018	20.0	80.0	82.5	0.000	-7.990	0.0
NMVOC	1A4ci	Gaseous	0.002	0.000	10.0	80.0	80.6	0.000	-95.368	0.0
NMVOC	1A4ci	Liquid	0.044	0.017	13.1	80.0	81.1	0.000	-61.525	0.0

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NMVOC	1A4ci	Peat	0.080	0.316	10.0	80.0	80.6	0.119	294.469	0.2
NMVOC	1A4cii	Liquid	6.642	1.021	14.6	80.0	81.3	1.263	-84.626	0.5
NMVOC	1A4ciii	Liquid	0.144	0.073	15.0	80.0	81.4	0.006	-49.394	0.0
NMVOC	1A5a	Biomass	0.014	0.181	10.0	80.0	80.6	0.039	1211.244	0.1
NMVOC	1A5a	Gaseous	0.012	0.046	14.6	80.0	81.3	0.003	296.929	0.0
NMVOC	1A5a	Liquid	0.140	0.132	12.2	80.0	80.9	0.021	-5.641	0.1
NMVOC	1B1b		0.037	0.060	10.0	900.0	900.1	0.542	61.182	0.3
NMVOC	1B2aiv		6.600	1.463	100.0		100.0	3.920	-77.831	0.9
NMVOC	1B2av		7.411	2.640	20.0	100.0	102.0	13.270	-64.379	1.6
NMVOC	1B2b		0.229	0.181	10.0	100.0	100.5	0.061	-21.022	0.1
NMVOC	2A1		0.054	0.020	10.0		10.0	0.000	-63.840	0.0
NMVOC	2A3		0.001	0.007	99.9	80.0	128.0	0.000	418.811	0.0
NMVOC	2B10a		7.836	2.060	100.0		100.0	7.767	-73.716	1.2
NMVOC	2B10b		0.134	0.027	100.0		100.0	0.001	-79.959	0.0
NMVOC	2C1		0.796	0.176	100.0		100.0	0.056	-77.940	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	-95.124	0.0
NMVOC	2C7a			0.001	200.0		200.0	0.000	NA	0.0
NMVOC	2C7b		0.010	0.024	100.0		100.0	0.001	140.000	0.0
NMVOC	2C7c		0.025	0.002	100.0		100.0	0.000	-94.000	0.0
NMVOC	2D3a		2.773	6.005	40.0	108.0	115.2	87.572	116.569	4.2
NMVOC	2D3b		0.900	0.169	30.0	80.0	85.4	0.038	-81.229	0.1
NMVOC	2D3c		6.260	0.105	30.0	80.0	85.4	0.015	-98.329	0.1
NMVOC	2D3d		27.500	4.768	62.0	200.0	209.4	182.525	-82.661	6.1
NMVOC	2D3e		2.638	0.662	19.7	200.0	201.0	3.244	-74.893	0.8
NMVOC	2D3g		3.956	1.470	85.3	200.0	217.4	18.700	-62.845	1.9
NMVOC	2D3h		8.800	0.352	86.3	200.0	217.8	1.076	-96.001	0.5
NMVOC	2D3i		2.085	1.314	37.9	200.0	203.6	13.101	-36.986	1.6
NMVOC	2G		0.043	0.018	35.0	100.0	105.9	0.001	-57.051	0.0
NMVOC	2H1		2.966	1.045	15.4	80.0	81.5	1.326	-64.773	0.5
NMVOC	2H2		2.523	2.298	28.8	900.0	900.5	783.925	-8.927	12.6
NMVOC	2I		1.070	1.110	36.1	80.0	87.8	1.739	3.743	0.6
NMVOC	2L		0.013	0.067	100.0		100.0	0.008	412.079	0.0
NMVOC	3B1a		6.851	5.825	3.0	200.0	200.0	248.570	-14.981	7.1
NMVOC	3B1b		4.004	3.833	3.0	200.0	200.0	107.619	-4.273	4.7
NMVOC	3B2		0.110	0.120	5.0	200.0	200.1	0.106	9.215	0.1
NMVOC	3B3		0.423	0.240	5.0	200.0	200.1	0.421	-43.292	0.3

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NMVOC	3B4d		0.004	0.004	5.0	200.0	200.1	0.000	-3.016	0.0
NMVOC	3B4e		0.161	0.225	5.0	200.0	200.1	0.369	39.797	0.3
NMVOC	3B4gi		0.219	0.263	5.0	200.0	200.1	0.507	20.242	0.3
NMVOC	3B4gii		0.259	0.873	5.0	200.0	200.1	5.579	236.754	1.1
NMVOC	3B4giii		0.006	0.033	5.0	200.0	200.1	0.008	412.937	0.0
NMVOC	3B4giv		0.033	0.015	5.0	200.0	200.1	0.002	-53.724	0.0
NMVOC	3B4h		1.028	0.300	5.0	200.0	200.1	0.662	-70.784	0.4
NMVOC	3Da2a		3.886	2.230	45.0	200.0	205.0	38.277	-42.605	2.8
NMVOC	3Da3		0.099	0.045	45.0	200.0	205.0	0.016	-54.150	0.1
NMVOC	3De		1.062	0.944	30.0	100.0	104.4	1.780	-11.035	0.6
NMVOC	5A		0.234	0.062	15.0	200.0	200.6	0.029	-73.372	0.1
NMVOC	5D1		0.003	0.008	10.0	200.0	200.2	0.000	153.758	0.0
NMVOC	5D2		0.022	0.013	10.0	200.0	200.2	0.001	-38.098	0.0
Total			233.070	73.901			44.5		-68.292	19.9

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
SOx	1A1a	Biomass	0.587	0.769	8.4	40.0	40.9	3.130	30.992	0.2
SOx	1A1a	Gaseous	0.002	0.001	4.9	20.0	20.6	0.000	-33.867	0.0
SOx	1A1a	Liquid	16.678	0.272	7.1	20.0	21.2	0.105	-98.370	0.0
SOx	1A1a	Other	0.027	0.127	9.8	40.0	41.2	0.086	372.014	0.0
SOx	1A1a	Peat	8.877	1.265	5.8	40.0	40.4	8.297	-85.746	0.3
SOx	1A1a	Solid	50.545	1.898	10.0		10.0	1.143	-96.244	0.1
SOx	1A1b	Biomass		0.000	10.0		10.0	0.000	NA	0.0
SOx	1A1b	Gaseous	0.001	0.052	10.0	20.0	22.4	0.004	4889.949	0.0
SOx	1A1b	Liquid	21.319	1.511	10.0	20.0	22.4	3.618	-92.914	0.2
SOx	1A1b	Solid	0.467	0.000	10.0		10.0	0.000	-99.983	0.0
SOx	1A2a	Biomass		0.000	10.0		10.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
SOx	1A2a	Gaseous	0.000	0.001	9.2	20.0	22.0	0.000	1524.060	0.0
SOx	1A2a	Liquid	1.958	0.008	9.6	20.0	22.2	0.000	-99.592	0.0
SOx	1A2a	Solid	7.266	0.325	9.5	40.0	41.1	0.567	-95.525	0.1
SOx	1A2b	Gaseous		0.000	10.0	20.0	22.4	0.000	NA	0.0
SOx	1A2b	Liquid	4.045	0.950	9.9	20.0	22.3	1.422	-76.520	0.1
SOx	1A2b	Solid	4.034	1.334	10.0		10.0	0.565	-66.923	0.1
SOx	1A2c	Biomass	0.240	0.020	10.0	40.0	41.2	0.002	-91.823	0.0
SOx	1A2c	Gaseous	0.000	0.000	9.2	20.0	22.0	0.000	474.140	0.0
SOx	1A2c	Liquid	4.948	0.998	3.8	20.0	20.4	1.311	-79.823	0.1
SOx	1A2c	Other	0.044	0.039	10.0	40.0	41.2	0.008	-12.321	0.0
SOx	1A2d	Biomass	6.427	0.730	7.3	40.0	40.7	2.793	-88.640	0.2
SOx	1A2d	Gaseous	0.201	0.008	9.8	20.0	22.3	0.000	-95.889	0.0
SOx	1A2d	Liquid	19.440	0.319	9.6	20.0	22.2	0.159	-98.358	0.0
SOx	1A2d	Other	0.390	0.030	7.7	40.0	40.7	0.005	-92.286	0.0
SOx	1A2d	Peat	5.876	0.134	10.0		10.0	0.006	-97.727	0.0
SOx	1A2d	Solid	6.141	0.001	10.0		10.0	0.000	-99.980	0.0
SOx	1A2e	Biomass	0.031	0.041	8.6	40.0	40.9	0.009	33.188	0.0
SOx	1A2e	Gaseous	0.000	0.000	4.2	20.0	20.4	0.000	-82.626	0.0
SOx	1A2e	Liquid	3.245	0.032	4.3	20.0	20.5	0.001	-99.011	0.0
SOx	1A2e	Peat	0.230	0.101	10.0		10.0	0.003	-56.355	0.0
SOx	1A2e	Solid	0.783	0.000	10.0		10.0	0.000	-99.997	0.0
SOx	1A2f	Biomass	0.000	0.003	8.2	40.0	40.8	0.000	3320.605	0.0
SOx	1A2f	Gaseous	0.064	0.005	9.9	20.0	22.3	0.000	-91.873	0.0
SOx	1A2f	Liquid	1.827	0.267	8.0	20.0	21.5	0.105	-85.386	0.0
SOx	1A2f	Other	0.033	0.015	10.0		10.0	0.000	-52.945	0.0
SOx	1A2f	Solid	1.111	0.077	10.0		10.0	0.002	-93.078	0.0
SOx	1A2gvii	Liquid	1.003	0.004	4.9	50.0	50.2	0.000	-99.568	0.0
SOx	1A2gviii	Biomass	0.349	0.151	6.7	40.0	40.6	0.119	-56.668	0.0
SOx	1A2gviii	Gaseous	0.000	0.007	6.0	20.0	20.9	0.000	22962.039	0.0
SOx	1A2gviii	Liquid	4.935	0.037	3.3	20.0	20.3	0.002	-99.245	0.0
SOx	1A2gviii	Other	0.307	0.018	10.0	40.0	41.2	0.002	-94.024	0.0
SOx	1A2gviii	Peat	0.019	0.023	7.5	40.0	40.7	0.003	25.753	0.0
SOx	1A3ai(i)	Liquid	0.021	0.045	5.0	50.0	50.2	0.016	110.282	0.0
SOx	1A3ai(i)	Liquid	0.021	0.009	5.0	50.0	50.2	0.001	-56.963	0.0
SOx	1A3bi	Diesel oil	0.909	0.006	1.0	50.0	50.0	0.000	-99.300	0.0
SOx	1A3bi	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
SOx	1A3bi	Gasoline	0.860	0.014	2.0	50.0	50.0	0.002	-98.345	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
SOx	1A3bii	Diesel oil	0.705	0.003	1.0	50.0	50.0	0.000	-99.507	0.0
SOx	1A3bii	Gasoline	0.032	0.000	2.0	50.0	50.0	0.000	-99.841	0.0
SOx	1A3biii	Diesel oil	2.738	0.011	1.0	50.0	50.0	0.001	-99.600	0.0
SOx	1A3biii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
SOx	1A3biii	Liquid		0.000	2.0	50.0	50.0	0.000	NA	0.0
SOx	1A3biv	Diesel oil		0.000	1.0	50.0	50.0	0.000	NA	0.0
SOx	1A3biv	Gasoline	0.007	0.000	2.0	50.0	50.0	0.000	-94.160	0.0
SOx	1A3c	Liquid	0.438	0.000	2.0	50.0	50.0	0.000	-99.958	0.0
SOx	1A3dii	Liquid	1.650	0.052	8.6	50.0	50.7	0.022	-96.879	0.0
SOx	1A3ei	Gaseous	0.000	0.000	20.0	50.0	53.9	0.000	-98.962	0.0
SOx	1A4ai	Biomass	0.010	0.016	20.0	40.0	44.7	0.002	59.970	0.0
SOx	1A4ai	Gaseous	0.000	0.000	10.0	20.0	22.4	0.000	-24.535	0.0
SOx	1A4ai	Liquid	10.103	1.023	13.0	20.0	23.8	1.885	-89.878	0.1
SOx	1A4ai	Peat	0.016	0.018	15.0	40.0	42.7	0.002	8.968	0.0
SOx	1A4aii	Liquid	0.409	0.001	12.8	50.0	51.6	0.000	-99.721	0.0
SOx	1A4bi	Biomass	0.206	0.224	20.0	40.0	44.7	0.319	8.571	0.1
SOx	1A4bi	Gaseous	0.000	0.000	10.0	20.0	22.4	0.000	-49.831	0.0
SOx	1A4bi	Liquid	4.226	0.110	13.8	20.0	24.3	0.023	-97.406	0.0
SOx	1A4bi	Other	0.000	0.000	10.0	40.0	41.2	0.000	-97.674	0.0
SOx	1A4bi	Peat	0.117	0.008	15.0	40.0	42.7	0.000	-93.385	0.0
SOx	1A4bii	Liquid	0.032	0.001	11.3	50.0	51.3	0.000	-97.834	0.0
SOx	1A4ci	Biomass	0.033	0.030	18.0	40.0	43.9	0.005	-7.705	0.0
SOx	1A4ci	Gaseous	0.000	0.000	10.0	20.0	22.4	0.000	-96.973	0.0
SOx	1A4ci	Liquid	3.231	0.221	13.1	20.0	23.9	0.088	-93.167	0.0
SOx	1A4ci	Peat	0.072	0.298	9.7	40.0	41.2	0.479	314.526	0.1
SOx	1A4cii	Liquid	0.986	0.003	14.6	50.0	52.1	0.000	-99.716	0.0
SOx	1A4ciii	Liquid	0.195	0.000	15.0	50.0	52.2	0.000	-99.813	0.0
SOx	1A5a	Biomass	0.008	0.362	10.0	40.0	41.2	0.706	4290.021	0.1
SOx	1A5a	Gaseous	0.000	0.098	14.6	20.0	24.8	0.019	106227.941	0.0
SOx	1A5a	Liquid	5.958	0.301	12.2	20.0	23.4	0.158	-94.945	0.0
SOx	1B1b		0.795	0.557	15.0		15.0	0.221	-29.937	0.0
SOx	2B10a		13.894	1.102	14.9		14.9	0.853	-92.066	0.1
SOx	2C1		2.867	0.909	15.0		15.0	0.589	-68.301	0.1
SOx	2C2			0.002	15.0		15.0	0.000	NA	0.0
SOx	2C7a		0.000	0.110	29.8		29.8	0.034	54807.915	0.0
SOx	2C7b		0.004	0.068	15.0		15.0	0.003	1700.000	0.0
SOx	2C7c		0.001	0.000	15.0		15.0	0.000	-94.091	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
SOx	2D3g		0.002	0.000	15.0		15.0	0.000	-98.681	0.0
SOx	2D3i		0.089	0.000	15.0		15.0	0.000	-99.775	0.0
SOx	2G		0.001	0.005	35.0	49.0	60.2	0.000	286.311	0.0
SOx	2H1		23.466	0.569	15.0		15.0	0.231	-97.576	0.0
SOx	2L			0.007	15.0		15.0	0.000	NA	0.0
Total			249.475	17.758			5.4		-92.882	0.5

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.259	30.0		30.0	0.066	25775.100	0.3
NH3	1A2gvii	Liquid	0.002	0.003	4.9	80.0	80.2	0.000	22.818	0.0
NH3	1A2gviii			0.004	30.0		30.0	0.000	NA	0.0
NH3	1A3bi	Diesel oil	0.005	0.050	1.0	80.0	80.0	0.018	857.963	0.1
NH3	1A3bi	Gaseous		0.006	3.0	80.0	80.1	0.000	NA	0.0
NH3	1A3bi	Gasoline	0.227	0.725	2.0	80.0	80.0	3.685	219.682	2.0
NH3	1A3bii	Diesel oil	0.003	0.022	1.0	80.0	80.0	0.003	664.788	0.1
NH3	1A3bii	Gasoline	0.002	0.001	2.0	80.0	80.0	0.000	-23.321	0.0
NH3	1A3biii	Diesel oil	0.010	0.026	1.0	80.0	80.0	0.005	153.192	0.1
NH3	1A3biii	Gaseous		0.002	3.0	80.0	80.1	0.000	NA	0.0
NH3	1A3biii	Liquid		0.000	2.0	80.0	80.0	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	130.808	0.0
NH3	1A3c	Liquid	0.000	0.000	2.0	80.0	80.0	0.000	-74.920	0.0
NH3	1A3dii	Liquid	0.001	0.001	8.6	80.0	80.5	0.000	-32.313	0.0
NH3	1A4ai	Biomass	0.003	0.005	20.0	80.0	82.5	0.000	64.925	0.0
NH3	1A4aii	Liquid	0.001	0.001	12.8	80.0	81.0	0.000	-31.528	0.0
NH3	1A4bi	Biomass	0.907	0.963	20.0	80.0	82.5	6.904	6.143	2.7
NH3	1A4bii	Liquid	0.000	0.000	11.3	80.0	80.8	0.000	44.048	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
NH3	1A4ci	Biomass	0.011	0.009	20.0	80.0	82.5	0.001	-22.508	0.0
NH3	1A4cii	Liquid	0.002	0.002	14.6	80.0	81.3	0.000	-20.283	0.0
NH3	1A4ciii	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-45.527	0.0
NH3	1A5a	Liquid	0.000	0.000	30.0	80.0	85.4	0.000	15.558	0.0
NH3	1B1b		0.002	0.003	10.0	170.0	170.3	0.000	61.182	0.0
NH3	2B10a		0.582	0.282	100.0		100.0	0.873	-51.488	1.0
NH3	2C1		0.003	0.036	100.0		100.0	0.014	1100.000	0.1
NH3	2C7b		0.100	0.005	100.0		100.0	0.000	-95.000	0.0
NH3	2C7c		0.000	0.000	100.0		100.0	0.000	67.374	0.0
NH3	2D3e		0.061	0.004	200.0		200.0	0.001	-93.262	0.0
NH3	2D3g		0.024	0.002	40.9	100.0	108.0	0.000	-90.879	0.0
NH3	2D3i		0.097	0.124	100.0		100.0	0.170	28.421	0.4
NH3	2G		0.037	0.016	35.0	6.0	35.5	0.000	-57.051	0.0
NH3	2H1		0.560	0.151	100.0		100.0	0.249	-73.076	0.5
NH3	2L		0.020	0.029	100.0		100.0	0.009	42.755	0.1
NH3	3B1a		5.709	5.331	3.0	186.0	186.0	1077.190	-6.626	33.9
NH3	3B1b		5.208	4.873	3.0	186.0	186.0	900.319	-6.434	31.0
NH3	3B2		0.070	0.080	5.0	186.0	186.1	0.243	15.220	0.5
NH3	3B3		4.182	1.623	5.0	186.0	186.1	99.886	-61.192	10.3
NH3	3B4d		0.006	0.005	5.0	186.0	186.1	0.001	-14.621	0.0
NH3	3B4e		0.254	0.397	5.0	186.0	186.1	5.972	56.361	2.5
NH3	3B4gi		0.535	0.328	5.0	186.0	186.1	4.078	-38.712	2.1
NH3	3B4gii		0.204	0.688	5.0	186.0	186.1	17.938	237.419	4.4
NH3	3B4giii		0.013	0.093	5.0	186.0	186.1	0.328	630.027	0.6
NH3	3B4giv		0.104	0.023	5.0	186.0	186.1	0.020	-78.108	0.1
NH3	3B4h		1.873	0.577	5.0	186.0	186.1	12.614	-69.211	3.7
NH3	3Da1		6.311	3.443	10.0	40.0	41.2	22.082	-45.436	4.9
NH3	3Da2a		11.254	6.838	45.0	186.0	191.4	1875.807	-39.241	44.8
NH3	3Da2b		0.043	0.070	30.0	100.0	104.4	0.059	62.026	0.3
NH3	3Da2c		0.167	0.454	45.0	100.0	109.7	2.711	172.000	1.7
NH3	3Da3		1.728	0.971	45.0	186.0	191.4	37.810	-43.811	6.4
NH3	3Da4		0.200	0.411	45.0	100.0	109.7	2.220	105.698	1.5
NH3	5B1		0.035	0.088	25.0	192.0	193.6	0.319	151.837	0.6
NH3	5B2		0.003	0.213	10.0	75.0	75.7	0.285	7660.864	0.6
NH3	5D1		0.275	0.372	99.5	100.0	141.0	3.011	35.003	1.8
NH3	6A		0.380	0.604	10.0	54.0	54.9	1.206	59.039	1.1
Total			41.347	30.213			63.8		-26.928	66.0

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PM 2.5	1A1a	Biomass	0.265	0.069	4.9	160.0	160.1	0.759	-74.070	0.3
PM 2.5	1A1a	Liquid	0.704	0.019	2.2	100.0	100.0	0.021	-97.370	0.1
PM 2.5	1A1a	Other	0.001	0.002	10.0	160.0	160.3	0.000	216.215	0.0
PM 2.5	1A1a	Peat	0.467	0.047	2.0	120.0	120.0	0.199	-89.937	0.2
PM 2.5	1A1a	Solid	1.103	0.038	1.0	160.0	160.0	0.227	-96.593	0.2
PM 2.5	1A1b	Liquid	0.096	0.010	4.9	100.0	100.1	0.006	-89.537	0.0
PM 2.5	1A1b	Solid	0.000	0.000	3.0	160.0	160.0	0.000	-89.675	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	0.000	5.0	100.0	100.1	0.000	-99.905	0.0
PM 2.5	1A2a	Solid	0.089	0.001	3.0	160.0	160.0	0.000	-98.855	0.0
PM 2.5	1A2b	Liquid	0.038	0.002	3.5	100.0	100.1	0.000	-94.354	0.0
PM 2.5	1A2b	Solid	0.014	0.000	4.9	160.0	160.1	0.000	-98.411	0.0
PM 2.5	1A2c	Biomass	0.016	0.008	9.8	160.0	160.3	0.009	-51.458	0.0
PM 2.5	1A2c	Liquid	0.169	0.012	3.4	100.0	100.1	0.010	-92.637	0.0
PM 2.5	1A2c	Other	0.001	0.000	10.0	160.0	160.3	0.000	-93.390	0.0
PM 2.5	1A2d	Biomass	9.011	0.585	1.8	160.0	160.0	55.057	-93.504	2.8
PM 2.5	1A2d	Liquid	0.652	0.045	1.9	100.0	100.0	0.125	-93.161	0.1
PM 2.5	1A2d	Other	0.005	0.006	10.0	160.0	160.3	0.005	25.046	0.0
PM 2.5	1A2d	Peat	0.154	0.004	2.0	120.0	120.0	0.001	-97.551	0.0
PM 2.5	1A2d	Solid	0.110	0.000	5.0	160.0	160.1	0.000	-99.976	0.0
PM 2.5	1A2e	Biomass	0.011	0.003	8.1	160.0	160.2	0.001	-75.289	0.0
PM 2.5	1A2e	Liquid	0.143	0.002	3.6	100.0	100.1	0.000	-98.678	0.0
PM 2.5	1A2e	Peat	0.023	0.001	5.0	120.0	120.1	0.000	-96.784	0.0
PM 2.5	1A2e	Solid	0.013	0.000	5.0	160.0	160.1	0.000	-99.977	0.0
PM 2.5	1A2f	Biomass	0.000	0.000	10.0	160.0	160.3	0.000	-57.337	0.0
PM 2.5	1A2f	Liquid	0.219	0.017	2.9	100.0	100.0	0.018	-92.375	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	0.000	5.0	160.0	160.1	0.000	-99.988	0.0
PM 2.5	1A2gvii	Liquid	1.422	0.177	4.9	100.0	100.1	1.976	-87.540	0.5
PM 2.5	1A2gviii	Biomass	0.211	0.088	9.4	160.0	160.3	1.249	-58.276	0.4
PM 2.5	1A2gviii	Liquid	0.464	0.003	3.6	100.0	100.1	0.001	-99.343	0.0
PM 2.5	1A2gviii	Other	0.009	0.000	10.0	160.0	160.3	0.000	-97.660	0.0
PM 2.5	1A2gviii	Peat	0.001	0.001	10.0	120.0	120.4	0.000	-31.872	0.0
PM 2.5	1A3ai(i)	Liquid	0.003	0.007	5.0	100.0	100.1	0.003	112.537	0.0
PM 2.5	1A3aii(i)	Liquid	0.002	0.001	5.0	100.0	100.1	0.000	-33.770	0.0
PM 2.5	1A3bi	Diesel oil	2.366	0.167	1.0	100.0	100.0	1.749	-92.944	0.5

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 2.5	1A3bi	Gasoline	0.174	0.023	2.0	100.0	100.0	0.033	-86.746	0.1
PM 2.5	1A3bii	Diesel oil	1.074	0.205	1.0	100.0	100.0	2.645	-80.879	0.6
PM 2.5	1A3bii	Gasoline	0.006	0.000	2.0	100.0	100.0	0.000	-98.403	0.0
PM 2.5	1A3biii	Diesel oil	4.287	0.117	1.0	100.0	100.0	0.866	-97.260	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		0.001	1.0	100.0	100.0	0.000	NA	0.0
PM 2.5	1A3biv	Gasoline	0.057	0.008	2.0	100.0	100.0	0.004	-85.657	0.0
PM 2.5	1A3bvi		0.542	0.599	1.0	100.0	100.0	22.481	10.517	1.8
PM 2.5	1A3bvii		0.408	0.454	1.0	100.0	100.0	12.932	11.180	1.4
PM 2.5	1A3c	Liquid	0.084	0.018	2.0	100.0	100.0	0.020	-78.739	0.1
PM 2.5	1A3dii	Gaseous		0.001	30.0	100.0	104.4	0.000	NA	0.0
PM 2.5	1A3dii	Liquid	0.544	0.221	8.6	100.0	100.4	3.097	-59.285	0.7
PM 2.5	1A4ai	Biomass	0.030	0.050	20.0	80.0	82.5	0.107	67.989	0.1
PM 2.5	1A4ai	Liquid	0.506	0.082	13.0	100.0	100.8	0.430	-83.787	0.2
PM 2.5	1A4ai	Peat	0.002	0.002	15.0	160.0	160.7	0.000	3.543	0.0
PM 2.5	1A4aii	Liquid	0.746	0.058	12.8	100.0	100.8	0.214	-92.231	0.2
PM 2.5	1A4bi	Biomass	7.392	6.981	20.0	80.0	82.5	2079.677	-5.553	17.2
PM 2.5	1A4bi	Liquid	0.219	0.012	15.0	100.0	101.1	0.010	-94.307	0.0
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	0.014	15.0	160.0	160.7	0.031	-93.385	0.1
PM 2.5	1A4bii	Liquid	0.242	0.106	11.3	100.0	100.6	0.715	-56.120	0.3
PM 2.5	1A4ci	Biomass	0.101	0.079	20.0	80.0	82.5	0.264	-21.863	0.2
PM 2.5	1A4ci	Liquid	0.167	0.013	14.0	100.0	101.0	0.010	-92.395	0.0
PM 2.5	1A4ci	Peat	0.008	0.032	10.0	160.0	160.3	0.163	297.148	0.2
PM 2.5	1A4cii	Liquid	1.620	0.128	14.6	100.0	101.1	1.057	-92.074	0.4
PM 2.5	1A4ciii	Liquid	0.069	0.036	15.0	100.0	101.1	0.085	-47.267	0.1
PM 2.5	1A5a	Biomass	0.002	0.181	10.0	160.0	160.3	5.278	7779.268	0.9
PM 2.5	1A5a	Liquid	0.308	0.041	15.1	100.0	101.1	0.108	-86.661	0.1
PM 2.5	1B1b		0.003	0.014	40.0	200.0	204.0	0.049	308.947	0.1
PM 2.5	1B1c		1.085	0.175	10.0	200.0	200.2	7.742	-83.827	1.0
PM 2.5	1B2aiv		0.189	0.000	80.0	200.0	215.4	0.000	-99.995	0.0
PM 2.5	1B2av		0.005	0.000	40.0	200.0	204.0	0.000	-97.293	0.0
PM 2.5	2A2		0.026	0.000	40.0	200.0	204.0	0.000	-99.180	0.0
PM 2.5	2A3		0.124	0.001	40.0	200.0	204.0	0.000	-99.475	0.0
PM 2.5	2A5a		0.068	0.000	40.0	200.0	204.0	0.000	-99.726	0.0
PM 2.5	2A5b		0.504	0.001	40.0	200.0	204.0	0.000	-99.832	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	2A5c		0.049	0.017	30.0	200.0	202.2	0.074	-65.245	0.1
PM 2.5	2B10a		0.738	0.195	80.0	200.0	215.4	11.023	-73.643	1.3
PM 2.5	2B10b		0.001	0.001	40.0	200.0	204.0	0.001	51.560	0.0
PM 2.5	2C1		3.152	0.194	40.0	200.0	204.0	9.791	-93.855	1.2
PM 2.5	2C2		0.014	0.042	40.0	200.0	204.0	0.466	202.146	0.3
PM 2.5	2C3		0.001	0.000	60.0	200.0	208.8	0.000	-35.655	0.0
PM 2.5	2C6		0.028	0.000	80.0	200.0	215.4	0.000	-99.924	0.0
PM 2.5	2C7a		0.026	0.000	60.0	200.0	208.8	0.000	-98.298	0.0
PM 2.5	2C7c		0.201	0.007	40.0	200.0	204.0	0.014	-96.302	0.0
PM 2.5	2C7d		0.001	0.001	30.0	100.0	104.4	0.000	-9.764	0.0
PM 2.5	2D3b		0.087	0.093	30.0	200.0	202.2	2.200	6.539	0.6
PM 2.5	2D3d		0.000	0.003	40.0	200.0	204.0	0.003	1274.827	0.0
PM 2.5	2D3g		0.016	0.000	40.0	200.0	204.0	0.000	-99.005	0.0
PM 2.5	2D3i		0.064	0.050	40.0	200.0	204.0	0.653	-22.197	0.3
PM 2.5	2G		0.240	0.103	35.0	73.0	81.0	0.439	-57.022	0.2
PM 2.5	2H1		1.455	0.078	80.0	200.0	215.4	1.751	-94.671	0.5
PM 2.5	2H2		0.303	0.385	40.0	200.0	204.0	38.665	27.216	2.3
PM 2.5	2I		0.131	0.003	40.0	200.0	204.0	0.003	-97.635	0.0
PM 2.5	2L		0.054	0.011	40.0	200.0	204.0	0.033	-79.267	0.1
PM 2.5	3B1a		0.132	0.051	3.0	200.0	200.0	0.644	-61.710	0.3
PM 2.5	3B1b		0.079	0.047	3.0	200.0	200.0	0.550	-40.860	0.3
PM 2.5	3B2		0.001	0.001	5.0	200.0	200.1	0.000	8.735	0.0
PM 2.5	3B3		0.004	0.002	5.0	200.0	200.1	0.001	-55.314	0.0
PM 2.5	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	-15.228	0.0
PM 2.5	3B4e		0.004	0.006	5.0	200.0	200.1	0.008	43.751	0.0
PM 2.5	3B4gi		0.014	0.011	5.0	200.0	200.1	0.031	-21.090	0.1
PM 2.5	3B4gii		0.003	0.010	5.0	200.0	200.1	0.027	239.933	0.1
PM 2.5	3B4giii		0.001	0.003	5.0	200.0	200.1	0.002	423.937	0.0
PM 2.5	3B4giv		0.032	0.008	5.0	200.0	200.1	0.017	-74.761	0.0
PM 2.5	3B4h		0.013	0.003	5.0	200.0	200.1	0.003	-76.122	0.0
PM 2.5	3Dc		0.268	0.206	3.0	200.0	200.0	10.611	-23.283	1.2
PM 2.5	5A		0.000	0.000	15.0	385.0	385.3	0.000	-55.028	0.0
PM 2.5	5C1bv		0.000	0.001	10.0	900.0	900.1	0.009	398.645	0.0
PM 2.5	5E		0.378	0.121	35.0	100.0	105.9	1.032	-67.953	0.4
Total			47.346	12.624			47.7		-73.337	18.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.318	4.9	160.0	160.1	4.202	-49.266	1.0
PM 10	1A1a	Liquid	1.057	0.024	2.2	100.0	100.0	0.009	-97.757	0.0
PM 10	1A1a	Other	0.002	0.007	10.0	160.0	160.3	0.002	315.329	0.0
PM 10	1A1a	Peat	1.337	0.221	2.0	120.0	120.0	1.139	-83.503	0.5
PM 10	1A1a	Solid	4.794	0.117	1.0	160.0	160.0	0.574	-97.549	0.4
PM 10	1A1b	Liquid	0.223	0.018	4.9	100.0	100.1	0.005	-92.131	0.0
PM 10	1A1b	Solid	0.002	0.000	3.0	160.0	160.0	0.000	-89.675	0.0
PM 10	1A2a	Biomass		0.000	10.0	160.0	160.3	0.000	NA	0.0
PM 10	1A2a	Liquid	0.117	0.000	5.0	100.0	100.1	0.000	-99.771	0.0
PM 10	1A2a	Solid	0.398	0.005	3.0	160.0	160.0	0.001	-98.840	0.0
PM 10	1A2b	Liquid	0.059	0.004	3.5	100.0	100.1	0.000	-93.736	0.0
PM 10	1A2b	Solid	0.072	0.001	4.9	160.0	160.1	0.000	-98.287	0.0
PM 10	1A2c	Biomass	0.025	0.008	9.8	160.0	160.3	0.003	-68.410	0.0
PM 10	1A2c	Liquid	0.267	0.029	3.4	100.0	100.1	0.014	-89.103	0.1
PM 10	1A2c	Other	0.006	0.000	10.0	160.0	160.3	0.000	-96.705	0.0
PM 10	1A2d	Biomass	11.986	1.017	1.8	160.0	160.0	43.009	-91.515	3.1
PM 10	1A2d	Liquid	0.907	0.024	1.8	100.0	100.0	0.009	-97.338	0.0
PM 10	1A2d	Other	0.011	0.015	10.0	160.0	160.3	0.010	35.850	0.0
PM 10	1A2d	Peat	0.326	0.009	2.0	120.0	120.0	0.002	-97.376	0.0
PM 10	1A2d	Solid	0.493	0.000	5.0	160.0	160.1	0.000	-99.984	0.0
PM 10	1A2e	Biomass	0.040	0.011	8.1	160.0	160.2	0.005	-72.012	0.0
PM 10	1A2e	Liquid	0.221	0.004	3.6	100.0	100.1	0.000	-98.347	0.0
PM 10	1A2e	Peat	0.111	0.004	5.0	120.0	120.1	0.000	-96.480	0.0
PM 10	1A2e	Solid	0.065	0.000	5.0	160.0	160.1	0.000	-99.977	0.0
PM 10	1A2f	Biomass	0.000	0.000	10.0	160.0	160.3	0.000	10.879	0.0
PM 10	1A2f	Liquid	0.358	0.034	2.9	100.0	100.0	0.019	-90.529	0.1
PM 10	1A2f	Other		0.003	10.0	160.0	160.3	0.000	NA	0.0
PM 10	1A2f	Solid	0.971	0.002	5.0	160.0	160.1	0.000	-99.748	0.0
PM 10	1A2gvii	Liquid	1.422	0.177	4.9	100.0	100.1	0.511	-87.540	0.3
PM 10	1A2gviii	Biomass	0.678	0.178	9.4	160.0	160.3	1.322	-73.752	0.5
PM 10	1A2gviii	Liquid	0.737	0.005	3.6	100.0	100.1	0.000	-99.264	0.0
PM 10	1A2gviii	Other	0.048	0.001	10.0	160.0	160.3	0.000	-97.734	0.0
PM 10	1A2gviii	Peat	0.005	0.004	10.0	120.0	120.4	0.000	-24.856	0.0
PM 10	1A3ai(i)	Liquid	0.003	0.007	5.0	100.0	100.1	0.001	112.537	0.0
PM 10	1A3aii(i)	Liquid	0.002	0.001	5.0	100.0	100.1	0.000	-33.770	0.0
PM 10	1A3bi	Diesel oil	2.366	0.167	1.0	100.0	100.0	0.453	-92.944	0.3
PM 10	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1A3bi	Gasoline	0.174	0.023	2.0	100.0	100.0	0.009	-86.746	0.0
PM 10	1A3bii	Diesel oil	1.074	0.205	1.0	100.0	100.0	0.685	-80.879	0.4
PM 10	1A3bii	Gasoline	0.006	0.000	2.0	100.0	100.0	0.000	-98.403	0.0
PM 10	1A3biii	Diesel oil	4.287	0.117	1.0	100.0	100.0	0.224	-97.260	0.2
PM 10	1A3biii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
PM 10	1A3biv	Diesel oil		0.001	1.0	100.0	100.0	0.000	NA	0.0
PM 10	1A3biv	Gasoline	0.057	0.008	2.0	100.0	100.0	0.001	-85.657	0.0
PM 10	1A3bvi		0.982	1.087	1.0	100.0	100.0	19.191	10.628	2.1
PM 10	1A3bvii		4.773	5.356	1.0	100.0	100.0	465.989	12.211	10.2
PM 10	1A3c	Liquid	0.089	0.019	2.0	100.0	100.0	0.006	-78.739	0.0
PM 10	1A3dii	Gaseous		0.002	30.0	100.0	104.4	0.000	NA	0.0
PM 10	1A3dii	Liquid	0.565	0.228	8.6	100.0	100.4	0.850	-59.681	0.4
PM 10	1A4ai	Biomass	0.032	0.052	20.0	80.0	82.5	0.030	62.506	0.1
PM 10	1A4ai	Liquid	0.814	0.145	13.0	100.0	100.8	0.348	-82.159	0.3
PM 10	1A4ai	Peat	0.009	0.009	15.0	160.0	160.7	0.003	3.543	0.0
PM 10	1A4aii	Liquid	0.746	0.058	12.8	100.0	100.8	0.055	-92.231	0.1
PM 10	1A4bi	Biomass	7.630	7.206	20.0	80.0	82.5	573.597	-5.553	11.3
PM 10	1A4bi	Liquid	0.336	0.016	15.0	100.0	101.1	0.004	-95.222	0.0
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	0.015	15.0	160.0	160.7	0.010	-93.385	0.0
PM 10	1A4bii	Liquid	0.242	0.106	11.3	100.0	100.6	0.185	-56.120	0.2
PM 10	1A4ci	Biomass	0.104	0.086	20.0	80.0	82.5	0.081	-17.645	0.1
PM 10	1A4ci	Liquid	0.269	0.026	14.0	100.0	101.0	0.011	-90.347	0.1
PM 10	1A4ci	Peat	0.042	0.165	10.0	160.0	160.3	1.139	297.125	0.5
PM 10	1A4cii	Liquid	1.620	0.128	14.6	100.0	101.1	0.274	-92.074	0.2
PM 10	1A4ciii	Liquid	0.077	0.040	15.0	100.0	101.1	0.027	-47.267	0.1
PM 10	1A5a	Biomass	0.012	0.941	10.0	160.0	160.3	36.941	7779.268	2.9
PM 10	1A5a	Liquid	0.485	0.053	15.1	100.0	101.1	0.047	-89.000	0.1
PM 10	1B1b		0.008	0.033	40.0	200.0	204.0	0.072	308.947	0.1
PM 10	1B1c		1.544	0.250	10.0	200.0	200.2	4.064	-83.827	1.0
PM 10	1B2aiv		0.312	0.000	80.0	200.0	215.4	0.000	-99.988	0.0
PM 10	1B2av		0.005	0.000	40.0	200.0	204.0	0.000	-97.293	0.0
PM 10	2A2		0.072	0.001	40.0	200.0	204.0	0.000	-98.502	0.0
PM 10	2A3		0.142	0.001	40.0	200.0	204.0	0.000	-99.485	0.0
PM 10	2A5a		0.230	0.002	40.0	200.0	204.0	0.000	-99.185	0.0
PM 10	2A5b		0.796	0.006	40.0	200.0	204.0	0.003	-99.186	0.0
PM 10	2A5c		0.477	0.163	30.0	200.0	202.2	1.768	-65.813	0.6

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	2B10a		1.156	0.357	80.0	200.0	215.4	9.607	-69.115	1.5
PM 10	2B10b		0.007	0.011	40.0	200.0	204.0	0.009	50.447	0.0
PM 10	2C1		4.059	0.215	40.0	200.0	204.0	3.123	-94.704	0.8
PM 10	2C2		0.020	0.060	40.0	200.0	204.0	0.242	202.146	0.2
PM 10	2C3		0.002	0.001	60.0	200.0	208.8	0.000	-35.655	0.0
PM 10	2C6		0.146	0.000	80.0	200.0	215.4	0.000	-99.857	0.0
PM 10	2C7a		0.034	0.001	60.0	200.0	208.8	0.000	-98.416	0.0
PM 10	2C7c		0.408	0.009	40.0	200.0	204.0	0.005	-97.867	0.0
PM 10	2C7d		0.006	0.006	30.0	100.0	104.4	0.001	-9.764	0.0
PM 10	2D3b		0.095	0.101	30.0	200.0	202.2	0.678	6.539	0.4
PM 10	2D3d		0.000	0.005	40.0	200.0	204.0	0.002	1274.827	0.0
PM 10	2D3g		0.017	0.000	40.0	200.0	204.0	0.000	-98.497	0.0
PM 10	2D3i		0.187	0.053	40.0	200.0	204.0	0.189	-71.770	0.2
PM 10	2G		0.240	0.103	35.0	60.0	69.5	0.084	-56.995	0.1
PM 10	2H1		2.011	0.124	80.0	200.0	215.4	1.168	-93.810	0.5
PM 10	2H2		0.320	0.395	40.0	200.0	204.0	10.516	23.147	1.5
PM 10	2I		0.271	0.017	40.0	200.0	204.0	0.020	-93.614	0.1
PM 10	2L		0.081	0.018	40.0	200.0	204.0	0.021	-78.277	0.1
PM 10	3B1a		0.203	0.078	3.0	200.0	200.0	0.394	-61.710	0.3
PM 10	3B1b		0.122	0.072	3.0	200.0	200.0	0.338	-41.066	0.3
PM 10	3B2		0.002	0.002	5.0	200.0	200.1	0.000	8.735	0.0
PM 10	3B3		0.086	0.040	5.0	200.0	200.1	0.105	-53.219	0.2
PM 10	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	-15.228	0.0
PM 10	3B4e		0.006	0.009	5.0	200.0	200.1	0.005	43.751	0.0
PM 10	3B4gi		0.189	0.149	5.0	200.0	200.1	1.445	-21.090	0.6
PM 10	3B4gii		0.031	0.104	5.0	200.0	200.1	0.701	239.933	0.4
PM 10	3B4giii		0.003	0.017	5.0	200.0	200.1	0.019	423.937	0.1
PM 10	3B4giv		0.227	0.058	5.0	200.0	200.1	0.216	-74.639	0.2
PM 10	3B4h		0.027	0.006	5.0	200.0	200.1	0.003	-76.122	0.0
PM 10	3Dc		4.897	3.711	3.0	200.0	200.0	894.814	-24.228	14.1
PM 10	5A		0.001	0.001	15.0	379.0	379.3	0.000	-55.028	0.0
PM 10	5C1bv		0.000	0.001	10.0	900.0	900.1	0.002	398.645	0.0
PM 10	5E		0.378	0.121	35.0	100.0	105.9	0.267	-67.953	0.2
Total			74.187	24.812			45.6		-66.555	21.6

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.666	10.0		10.0	0.032	-49.919	0.1
TSP	1A1a	Liquid	1.214	0.037	10.0		10.0	0.000	-96.917	0.0
TSP	1A1a	Other	0.013	0.022	10.0		10.0	0.000	69.983	0.0
TSP	1A1a	Peat	2.295	0.810	2.0	60.0	60.0	1.699	-64.706	0.7
TSP	1A1a	Solid	7.164	0.152	10.0		10.0	0.002	-97.882	0.0
TSP	1A1b	Liquid	0.536	0.067	10.0		10.0	0.000	-87.546	0.0
TSP	1A1b	Solid	0.009	0.001	10.0		10.0	0.000	-89.675	0.0
TSP	1A2a	Biomass		0.001	10.0		10.0	0.000	NA	0.0
TSP	1A2a	Liquid	0.157	0.001	10.0		10.0	0.000	-99.658	0.0
TSP	1A2a	Solid	0.941	0.014	10.0		10.0	0.000	-98.487	0.0
TSP	1A2b	Liquid	0.069	0.004	10.0		10.0	0.000	-93.518	0.0
TSP	1A2b	Solid	0.277	0.005	10.0		10.0	0.000	-98.287	0.0
TSP	1A2c	Biomass	0.029	0.010	10.0		10.0	0.000	-64.913	0.0
TSP	1A2c	Liquid	0.299	0.034	10.0		10.0	0.000	-88.537	0.0
TSP	1A2c	Other	0.023	0.000	10.0		10.0	0.000	-98.984	0.0
TSP	1A2d	Biomass	14.007	1.142	10.0		10.0	0.094	-91.846	0.2
TSP	1A2d	Liquid	1.441	0.046	10.0		10.0	0.000	-96.820	0.0
TSP	1A2d	Other	0.017	0.024	10.0		10.0	0.000	40.474	0.0
TSP	1A2d	Peat	0.435	0.011	10.0		10.0	0.000	-97.512	0.0
TSP	1A2d	Solid	0.715	0.000	10.0		10.0	0.000	-99.985	0.0
TSP	1A2e	Biomass	0.074	0.015	10.0		10.0	0.000	-80.069	0.0
TSP	1A2e	Liquid	0.260	0.005	10.0		10.0	0.000	-97.981	0.0
TSP	1A2e	Peat	0.169	0.012	10.0		10.0	0.000	-93.098	0.0
TSP	1A2e	Solid	0.251	0.000	10.0		10.0	0.000	-99.977	0.0
TSP	1A2f	Biomass	0.001	0.001	10.0		10.0	0.000	7.297	0.0
TSP	1A2f	Liquid	0.449	0.046	10.0		10.0	0.000	-89.846	0.0
TSP	1A2f	Other	0.029	0.008	10.0		10.0	0.000	-74.099	0.0
TSP	1A2f	Solid	1.954	0.005	10.0		10.0	0.000	-99.751	0.0
TSP	1A2gvii	Liquid	1.422	0.177	4.9	50.0	50.2	0.057	-87.540	0.1
TSP	1A2gviii	Biomass	1.586	0.299	10.0		10.0	0.006	-81.161	0.0
TSP	1A2gviii	Liquid	0.821	0.008	10.0		10.0	0.000	-99.043	0.0
TSP	1A2gviii	Other	0.189	0.002	10.0		10.0	0.000	-99.093	0.0
TSP	1A2gviii	Peat	0.007	0.013	10.0		10.0	0.000	75.788	0.0
TSP	1A3ai(i)	Liquid	0.003	0.007	5.0	50.0	50.2	0.000	112.537	0.0
TSP	1A3aii(i)	Liquid	0.002	0.001	5.0	50.0	50.2	0.000	-33.770	0.0
TSP	1A3bi	Diesel oil	2.366	0.167	1.0	50.0	50.0	0.050	-92.944	0.1
TSP	1A3bi	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
TSP	1A3bi	Gasoline	0.174	0.023	2.0	50.0	50.0	0.001	-86.746	0.0
TSP	1A3bii	Diesel oil	1.074	0.205	1.0	50.0	50.0	0.076	-80.879	0.1
TSP	1A3bii	Gasoline	0.006	0.000	2.0	50.0	50.0	0.000	-98.403	0.0
TSP	1A3biii	Diesel oil	4.287	0.117	1.0	50.0	50.0	0.025	-97.260	0.1
TSP	1A3biii	Gaseous		0.000	3.0	50.0	50.1	0.000	NA	0.0
TSP	1A3biv	Diesel oil		0.001	1.0	50.0	50.0	0.000	NA	0.0
TSP	1A3biv	Gasoline	0.057	0.008	2.0	50.0	50.0	0.000	-85.657	0.0
TSP	1A3bvi		1.325	1.464	1.0	50.0	50.0	3.853	10.531	1.0
TSP	1A3bvii		9.546	10.712	1.0	50.0	50.0	206.192	12.211	7.7
TSP	1A3c	Liquid	0.094	0.020	2.0	50.0	50.0	0.001	-78.739	0.0
TSP	1A3dii	Gaseous		0.002	30.0	50.0	58.3	0.000	NA	0.0
TSP	1A3dii	Liquid	0.565	0.228	8.6	50.0	50.7	0.096	-59.681	0.2
TSP	1A4ai	Biomass	0.037	0.054	20.0	80.0	82.5	0.014	46.433	0.1
TSP	1A4ai	Liquid	0.994	0.194	13.0	50.0	51.7	0.072	-80.473	0.1
TSP	1A4ai	Peat	0.034	0.035	13.0	80.0	81.1	0.006	3.543	0.0
TSP	1A4aii	Liquid	0.746	0.058	12.8	50.0	51.6	0.006	-92.231	0.0
TSP	1A4bi	Biomass	7.948	7.507	20.0	80.0	82.5	275.315	-5.553	8.8
TSP	1A4bi	Liquid	0.425	0.018	15.0	50.0	52.2	0.001	-95.804	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	0.017	15.0	80.0	81.4	0.001	-93.385	0.0
TSP	1A4bii	Liquid	0.242	0.106	11.3	50.0	51.3	0.021	-56.120	0.1
TSP	1A4ci	Biomass	0.108	0.095	17.6	80.0	81.9	0.044	-11.929	0.1
TSP	1A4ci	Liquid	0.329	0.039	13.6	50.0	51.8	0.003	-88.232	0.0
TSP	1A4ci	Peat	0.160	0.635	9.9	80.0	80.6	1.885	297.110	0.7
TSP	1A4cii	Liquid	1.620	0.128	14.6	50.0	52.1	0.032	-92.074	0.1
TSP	1A4ciii	Liquid	0.077	0.040	15.0	50.0	52.2	0.003	-47.267	0.0
TSP	1A5a	Biomass	0.046	3.618	10.0	80.0	80.6	61.137	7779.268	4.2
TSP	1A5a	Liquid	0.591	0.067	15.1	50.0	52.2	0.009	-88.582	0.1
TSP	1B1b		0.019	0.078	20.0		20.0	0.002	308.947	0.0
TSP	1B1c		2.363	0.382	10.0	200.0	200.2	4.208	-83.827	1.1
TSP	1B2aiv		0.442	0.000	40.0		40.0	0.000	-99.984	0.0
TSP	1B2av		0.005	0.000	20.0		20.0	0.000	-97.293	0.0
TSP	2A2		0.174	0.003	20.0		20.0	0.000	-98.532	0.0
TSP	2A3		0.158	0.001	20.0		20.0	0.000	-99.487	0.0
TSP	2A5a		0.400	0.004	20.0		20.0	0.000	-99.047	0.0
TSP	2A5b		1.014	0.021	29.4	200.0	202.1	0.013	-97.946	0.1
TSP	2A5c		1.217	0.424	30.0	200.0	202.2	5.275	-65.176	1.2

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
TSP	2B10a		1.409	0.410	40.0		40.0	0.193	-70.930	0.2
TSP	2B10b		0.023	0.035	30.0	200.0	202.2	0.036	50.280	0.1
TSP	2C1		5.545	0.252	20.0		20.0	0.018	-95.449	0.1
TSP	2C2		0.023	0.070	20.0		20.0	0.001	202.146	0.0
TSP	2C3		0.003	0.002	19.8		19.8	0.000	-35.655	0.0
TSP	2C6		0.562	0.001	40.0		40.0	0.000	-99.872	0.0
TSP	2C7a		0.043	0.001	32.8		32.8	0.000	-98.047	0.0
TSP	2C7c		0.855	0.013	20.0		20.0	0.000	-98.502	0.0
TSP	2C7d		0.012	0.011	30.0	100.0	104.4	0.001	-9.764	0.0
TSP	2D3b		0.126	0.135	30.0	200.0	202.2	0.533	6.539	0.4
TSP	2D3d		0.001	0.007	20.0		20.0	0.000	1274.827	0.0
TSP	2D3g		0.019	0.000	20.0		20.0	0.000	-97.911	0.0
TSP	2D3i		0.598	0.056	19.1		19.1	0.001	-90.621	0.0
TSP	2G		0.240	0.103	35.0	55.0	65.2	0.033	-56.989	0.1
TSP	2H1		2.447	0.135	40.0		40.0	0.021	-94.467	0.1
TSP	2H2		0.329	0.408	26.4	200.0	201.7	4.877	24.257	1.2
TSP	2I		0.590	0.070	20.0		20.0	0.001	-88.190	0.0
TSP	2L		0.093	0.023	20.0		20.0	0.000	-74.633	0.0
TSP	3B1a		0.445	0.171	3.0	200.0	200.0	0.836	-61.710	0.5
TSP	3B1b		0.264	0.156	3.0	200.0	200.0	0.697	-40.976	0.4
TSP	3B2		0.005	0.005	5.0	200.0	200.1	0.001	8.735	0.0
TSP	3B3		0.518	0.260	5.0	200.0	200.1	1.943	-49.785	0.7
TSP	3B4d		0.000	0.000	5.0	200.0	200.1	0.000	-15.228	0.0
TSP	3B4e		0.014	0.020	5.0	200.0	200.1	0.011	43.751	0.1
TSP	3B4gi		0.897	0.708	5.0	200.0	200.1	14.424	-21.090	2.0
TSP	3B4gii		0.061	0.208	5.0	200.0	200.1	1.240	239.933	0.6
TSP	3B4giii		0.003	0.017	5.0	200.0	200.1	0.009	423.937	0.0
TSP	3B4giv		0.234	0.062	5.0	200.0	200.1	0.109	-73.709	0.2
TSP	3B4h		0.060	0.014	5.0	200.0	200.1	0.006	-76.122	0.0
TSP	3Dc		4.897	3.711	3.0	200.0	200.0	395.821	-24.228	10.6
TSP	5A		0.003	0.001	15.0	377.0	377.3	0.000	-55.028	0.0
TSP	5C1bv		0.000	0.001	10.0	900.0	900.1	0.001	398.645	0.0
TSP	5E		0.378	0.121	35.0	100.0	105.9	0.118	-67.953	0.2
Total			98.975	37.306			31.3		-62.307	16.7

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.002	4.9	320.0	320.0	0.057	-56.499	0.1
BC	1A1a	Liquid	0.177	0.004	2.2	200.0	200.0	0.054	-97.997	0.1
BC	1A1a	Other	0.000	0.000	10.0	320.0	320.2	0.000	551.378	0.0
BC	1A1a	Peat	0.015	0.002	2.0	280.0	280.0	0.020	-89.937	0.1
BC	1A1a	Solid	0.024	0.001	1.0	320.0	320.0	0.008	-96.593	0.0
BC	1A1b	Liquid	0.011	0.000	4.9	200.0	200.1	0.000	-98.037	0.0
BC	1A1b	Solid	0.000	0.000	3.0	320.0	320.0	0.000	-90.614	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	5.0	200.0	200.1	0.000	-99.855	0.0
BC	1A2a	Solid	0.002	0.000	3.0	320.0	320.0	0.000	-98.935	0.0
BC	1A2b	Liquid	0.011	0.000	3.5	200.0	200.0	0.001	-95.692	0.0
BC	1A2b	Solid	0.000	0.000	4.9	320.0	320.0	0.000	-98.517	0.0
BC	1A2c	Biomass	0.001	0.000	9.8	320.0	320.2	0.002	-50.206	0.0
BC	1A2c	Liquid	0.050	0.004	3.4	200.0	200.0	0.056	-92.728	0.1
BC	1A2c	Other	0.000	0.000	10.0	320.0	320.2	0.000	-98.513	0.0
BC	1A2d	Biomass	0.031	0.009	4.6	320.0	320.0	0.845	-71.790	0.4
BC	1A2d	Liquid	0.103	0.004	1.9	200.0	200.0	0.062	-96.310	0.1
BC	1A2d	Other	0.002	0.000	10.0	320.0	320.2	0.001	-83.645	0.0
BC	1A2d	Peat	0.005	0.000	2.0	280.0	280.0	0.000	-97.551	0.0
BC	1A2d	Solid	0.002	0.000	5.0	320.0	320.0	0.000	-99.976	0.0
BC	1A2e	Biomass	0.000	0.000	8.1	320.0	320.1	0.000	-63.996	0.0
BC	1A2e	Liquid	0.043	0.001	3.6	200.0	200.0	0.001	-98.657	0.0
BC	1A2e	Peat	0.001	0.000	5.0	280.0	280.0	0.000	-96.784	0.0
BC	1A2e	Solid	0.000	0.000	5.0	320.0	320.0	0.000	-99.979	0.0
BC	1A2f	Biomass	0.000	0.000	10.0	320.0	320.2	0.000	-57.337	0.0
BC	1A2f	Liquid	0.066	0.004	2.9	200.0	200.0	0.064	-94.167	0.1
BC	1A2f	Other		0.000	10.0	320.0	320.2	0.001	NA	0.0
BC	1A2f	Solid	0.012	0.000	5.0	320.0	320.0	0.000	-99.988	0.0
BC	1A2gvii	Liquid	0.877	0.108	4.9	200.0	200.1	49.932	-87.695	3.0
BC	1A2gviii	Biomass	0.007	0.003	9.4	320.0	320.1	0.093	-59.201	0.1
BC	1A2gviii	Liquid	0.140	0.001	3.6	200.0	200.0	0.003	-99.422	0.0
BC	1A2gviii	Other	0.002	0.000	10.0	320.0	320.2	0.000	-98.429	0.0
BC	1A2gviii	Peat	0.000	0.000	10.0	280.0	280.2	0.000	-31.872	0.0
BC	1A3ai(i)	Liquid	0.002	0.003	5.0	200.0	200.1	0.044	104.035	0.1
BC	1A3aii(i)	Liquid	0.001	0.001	5.0	200.0	200.1	0.002	-36.419	0.0
BC	1A3bi	Diesel oil	1.349	0.112	1.0	200.0	200.0	53.354	-91.727	3.1
BC	1A3bi	Gaseous		0.000	3.0	200.0	200.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
BC	1A3bi	Gasoline	0.021	0.006	2.0	200.0	200.0	0.170	-69.764	0.2
BC	1A3bii	Diesel oil	0.591	0.129	1.0	200.0	200.0	71.545	-78.122	3.6
BC	1A3bii	Gasoline	0.000	0.000	2.0	200.0	200.0	0.000	-92.449	0.0
BC	1A3biii	Diesel oil	2.272	0.073	1.0	200.0	200.0	22.680	-96.798	2.0
BC	1A3biii	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
BC	1A3biv	Diesel oil		0.001	1.0	200.0	200.0	0.002	NA	0.0
BC	1A3biv	Gasoline	0.006	0.002	2.0	200.0	200.0	0.012	-73.564	0.0
BC	1A3bvi		0.140	0.154	1.0	200.0	200.0	102.212	10.303	4.3
BC	1A3bvii		0.079	0.089	1.0	200.0	200.0	33.877	12.211	2.5
BC	1A3c	Liquid	0.055	0.012	2.0	200.0	200.0	0.582	-78.739	0.3
BC	1A3dii	Gaseous		0.000	30.0	200.0	202.2	0.000	NA	0.0
BC	1A3dii	Liquid	0.069	0.041	8.6	200.0	200.2	7.287	-40.546	1.1
BC	1A4ai	Biomass	0.001	0.002	20.0	80.0	82.5	0.002	67.577	0.0
BC	1A4ai	Liquid	0.152	0.025	13.0	200.0	200.4	2.663	-83.674	0.7
BC	1A4ai	Peat	0.000	0.000	15.0	320.0	320.4	0.000	3.543	0.0
BC	1A4aii	Liquid	0.230	0.014	12.8	200.0	200.4	0.818	-94.011	0.4
BC	1A4bi	Biomass	2.260	2.046	20.0	80.0	82.5	3049.414	-9.484	23.5
BC	1A4bi	Liquid	0.072	0.004	15.0	200.0	200.6	0.075	-94.201	0.1
BC	1A4bi	Other	0.000	0.000	10.0	320.0	320.2	0.000	-97.674	0.0
BC	1A4bi	Peat	0.007	0.000	15.0	320.0	320.4	0.002	-93.385	0.0
BC	1A4bii	Liquid	0.027	0.022	11.3	200.0	200.3	2.160	-16.175	0.6
BC	1A4ci	Biomass	0.003	0.003	20.0	80.0	82.5	0.005	-21.646	0.0
BC	1A4ci	Liquid	0.050	0.004	14.0	200.0	200.5	0.066	-92.250	0.1
BC	1A4ci	Peat	0.000	0.001	10.0	320.0	320.2	0.012	297.148	0.0
BC	1A4cii	Liquid	0.877	0.055	14.6	200.0	200.5	13.020	-93.729	1.5
BC	1A4ciii	Liquid	0.024	0.013	15.0	200.0	200.6	0.678	-47.267	0.4
BC	1A5a	Biomass	0.000	0.051	10.0	320.0	320.2	28.177	66754.394	2.3
BC	1A5a	Liquid	0.094	0.017	15.1	200.0	200.6	1.263	-81.701	0.5
BC	1B1b		0.002	0.007	80.0	400.0	407.9	0.799	308.947	0.4
BC	2A2		0.000	0.000	80.0	400.0	407.9	0.000	-99.269	0.0
BC	2A3		0.000	0.000	80.0	400.0	407.9	0.000	-99.475	0.0
BC	2B10a		0.013	0.004	160.0	400.0	430.8	0.244	-73.567	0.2
BC	2C1		0.012	0.001	80.0	400.0	407.9	0.009	-94.054	0.0
BC	2C2		0.001	0.004	80.0	400.0	407.9	0.318	202.146	0.2
BC	2C3		0.000	0.000	120.0	400.0	417.6	0.000	-35.655	0.0
BC	2C7a		0.000	0.000	120.0	400.0	417.6	0.000	-99.569	0.0
BC	2D3b		0.005	0.005	30.0	200.0	202.2	0.122	6.539	0.1

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
BC	2D3i		0.000	0.000	80.0	400.0	407.9	0.000	-91.002	0.0
BC	2G		0.001	0.001	35.0	49.0	60.2	0.000	-53.646	0.0
BC	2H1		0.047	0.002	160.0	400.0	430.8	0.081	-95.735	0.1
BC	5C1bv		0.000	0.001	10.0	900.0	900.1	0.038	398.645	0.1
BC	5E		0.033	0.010	35.0	100.0	105.9	0.131	-68.802	0.2
Total			10.145	3.055			58.7		-69.887	25.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	12.473	4.4	70.0	70.1	8.864	707.046	1.6
CO	1A1a	Gaseous	0.779	0.254	7.5	70.0	70.4	0.004	-67.444	0.0
CO	1A1a	Liquid	0.371	0.136	3.8	70.0	70.1	0.001	-63.316	0.0
CO	1A1a	Other	0.008	0.200	8.7	70.0	70.5	0.002	2275.042	0.0
CO	1A1a	Peat	1.544	1.017	2.1	70.0	70.0	0.059	-34.126	0.1
CO	1A1a	Solid	0.793	0.144	5.7	70.0	70.2	0.001	-81.869	0.0
CO	1A1b	Biomass		0.012	10.0	70.0	70.7	0.000	NA	0.0
CO	1A1b	Gaseous	0.167	0.042	3.5	70.0	70.1	0.000	-74.634	0.0
CO	1A1b	Liquid	0.406	0.406	4.2	70.0	70.1	0.009	-0.027	0.1
CO	1A1b	Solid	0.001	0.009	3.0	70.0	70.1	0.000	674.385	0.0
CO	1A2a	Biomass		0.001	10.0		10.0	0.000	NA	0.0
CO	1A2a	Gaseous	0.023	0.129	2.0	70.0	70.0	0.001	454.945	0.0
CO	1A2a	Liquid	0.246	0.007	4.0	70.0	70.1	0.000	-97.240	0.0
CO	1A2a	Solid	6.922	0.449	2.1	70.0	70.0	0.011	-93.511	0.1
CO	1A2b	Gaseous		0.000	10.0	70.0	70.7	0.000	NA	0.0
CO	1A2b	Liquid	0.020	0.099	8.3	70.0	70.5	0.001	390.454	0.0
CO	1A2b	Solid	0.079	0.004	4.9	70.0	70.2	0.000	-94.377	0.0
CO	1A2c	Biomass	0.021	0.016	9.5	70.0	70.6	0.000	-23.697	0.0
CO	1A2c	Gaseous	0.034	0.029	4.2	70.0	70.1	0.000	-16.066	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
CO	1A2c	Liquid	0.191	0.150	3.2	70.0	70.1	0.001	-21.393	0.0
CO	1A2c	Other	0.111	0.004	10.0	70.0	70.7	0.000	-96.719	0.0
CO	1A2d	Biomass	25.273	11.416	2.2	70.0	70.0	7.404	-54.830	1.5
CO	1A2d	Gaseous	1.836	0.323	6.9	70.0	70.3	0.006	-82.392	0.0
CO	1A2d	Liquid	1.041	0.107	1.8	70.0	70.0	0.001	-89.761	0.0
CO	1A2d	Other	0.008	0.266	9.6	70.0	70.7	0.004	3247.530	0.0
CO	1A2d	Peat	0.700	0.144	2.9	70.0	70.1	0.001	-79.492	0.0
CO	1A2d	Solid	0.645	0.000	10.0		10.0	0.000	-99.966	0.0
CO	1A2e	Biomass	0.079	0.254	7.8	70.0	70.4	0.004	222.711	0.0
CO	1A2e	Gaseous	0.018	0.018	4.3	70.0	70.1	0.000	-3.108	0.0
CO	1A2e	Liquid	0.090	0.008	3.0	70.0	70.1	0.000	-91.396	0.0
CO	1A2e	Peat	0.143	0.083	5.0	70.0	70.2	0.000	-42.086	0.0
CO	1A2e	Solid	0.053	0.001	5.0	70.0	70.2	0.000	-97.928	0.0
CO	1A2f	Biomass	0.000	0.202	9.8	70.0	70.7	0.002	280371.590	0.0
CO	1A2f	Gaseous	1.888	0.030	5.1	70.0	70.2	0.000	-98.423	0.0
CO	1A2f	Liquid	1.281	1.090	2.6	70.0	70.0	0.067	-14.946	0.1
CO	1A2f	Other		0.394	10.0	70.0	70.7	0.009	NA	0.1
CO	1A2f	Solid	12.941	0.569	2.6	70.0	70.1	0.018	-95.603	0.1
CO	1A2gvii	Liquid	8.424	6.184	4.9	70.0	70.2	2.181	-26.585	0.8
CO	1A2gviii	Biomass	3.848	2.848	8.4	70.0	70.5	0.467	-25.982	0.4
CO	1A2gviii	Gaseous	0.053	0.067	9.0	70.0	70.6	0.000	27.850	0.0
CO	1A2gviii	Liquid	0.202	0.028	3.3	70.0	70.1	0.000	-85.895	0.0
CO	1A2gviii	Other	0.279	0.045	10.0	70.0	70.7	0.000	-83.804	0.0
CO	1A2gviii	Peat	0.024	0.080	10.0	70.0	70.7	0.000	233.070	0.0
CO	1A3ai(i)	Liquid	0.231	0.723	5.0	70.0	70.2	0.030	213.233	0.1
CO	1A3aii(i)	Liquid	0.631	0.262	5.0	70.0	70.2	0.004	-58.435	0.0
CO	1A3bi	Diesel oil	9.979	0.989	1.0	70.0	70.0	0.056	-90.091	0.1
CO	1A3bi	Gaseous		0.097	3.0	70.0	70.1	0.001	NA	0.0
CO	1A3bi	Gasoline	412.338	24.831	2.0	70.0	70.0	35.024	-93.978	3.2
CO	1A3bii	Diesel oil	4.107	1.264	1.0	70.0	70.0	0.091	-69.215	0.2
CO	1A3bii	Gasoline	18.286	0.521	2.0	70.0	70.0	0.015	-97.150	0.1
CO	1A3biii	Diesel oil	15.069	2.018	1.0	70.0	70.0	0.231	-86.611	0.3
CO	1A3biii	Gaseous		0.021	3.0	70.0	70.1	0.000	NA	0.0
CO	1A3biii	Liquid		0.131	2.0	70.0	70.0	0.001	NA	0.0
CO	1A3biv	Diesel oil		0.017	1.0	70.0	70.0	0.000	NA	0.0
CO	1A3biv	Gasoline	7.906	3.456	2.0	70.0	70.0	0.678	-56.287	0.4
CO	1A3c	Liquid	0.548	0.144	2.0	70.0	70.0	0.001	-73.802	0.0

Pollutant	NFR	Fuel	Base year emissions, kt	Year 2024 emissions, kt	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
CO	1A3dii	Gaseous		0.012	30.0	70.0	76.2	0.000	NA	0.0
CO	1A3dii	Liquid	22.554	19.946	8.6	70.0	70.5	22.923	-11.560	2.6
CO	1A3ei	Gaseous	0.001	0.000	20.0	70.0	72.8	0.000	-98.962	0.0
CO	1A4ai	Biomass	0.455	0.734	20.0	70.0	72.8	0.033	61.306	0.1
CO	1A4ai	Gaseous	0.031	0.024	10.0	70.0	70.7	0.000	-22.553	0.0
CO	1A4ai	Liquid	0.527	0.203	12.9	70.0	71.2	0.002	-61.447	0.0
CO	1A4ai	Peat	0.018	0.017	15.0	70.0	71.6	0.000	-5.739	0.0
CO	1A4aai	Liquid	11.336	14.759	12.8	70.0	71.2	12.775	30.190	1.9
CO	1A4bi	Biomass	124.241	131.874	20.0	70.0	72.8	1067.622	6.143	17.8
CO	1A4bi	Gaseous	0.030	0.013	10.0	70.0	70.7	0.000	-57.591	0.0
CO	1A4bi	Liquid	0.785	0.065	13.8	70.0	71.4	0.000	-91.744	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	0.009	15.0	70.0	71.6	0.000	-93.385	0.0
CO	1A4bii	Liquid	34.909	31.687	11.3	70.0	70.9	58.463	-9.230	4.2
CO	1A4ci	Biomass	1.515	1.227	20.0	70.0	72.8	0.092	-18.996	0.2
CO	1A4ci	Gaseous	0.022	0.001	10.0	70.0	70.7	0.000	-95.915	0.0
CO	1A4ci	Liquid	0.183	0.076	13.1	70.0	71.2	0.000	-58.237	0.0
CO	1A4ci	Peat	0.080	0.342	10.0	70.0	70.7	0.007	327.491	0.0
CO	1A4cii	Liquid	18.799	7.417	14.6	70.0	71.5	3.257	-60.548	1.0
CO	1A4ciii	Liquid	0.442	0.243	15.0	70.0	71.6	0.003	-45.152	0.0
CO	1A5a	Biomass	0.130	9.045	10.0	70.0	70.7	4.738	6859.409	1.2
CO	1A5a	Gaseous	0.115	0.457	14.6	70.0	71.5	0.012	296.575	0.1
CO	1A5a	Liquid	2.031	1.125	12.2	70.0	71.1	0.074	-44.615	0.1
CO	2C1		0.464	0.096	20.0		20.0	0.000	-79.278	0.0
CO	2C7a		0.223	0.020	20.0		20.0	0.000	-90.883	0.0
CO	2G		0.493	0.222	35.0	5.0	35.4	0.001	-55.081	0.0
Total			764.634	293.824			35.0		-61.573	19.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.718	8.2	80.0	80.4	25.605	300.564	0.3
Pb	1A1a	Liquid	0.319	0.048	3.9	80.0	80.1	0.116	-84.796	0.0
Pb	1A1a	Other	0.001	0.148	10.1	80.0	80.6	1.088	14413.563	0.1
Pb	1A1a	Peat	1.291	0.824	2.0	80.0	80.0	33.431	-36.145	0.3
Pb	1A1a	Solid	5.751	0.009	28.1	80.0	84.8	0.004	-99.846	0.0
Pb	1A1b	Liquid	2.049	2.654	5.0	80.0	80.2	347.694	29.573	0.9
Pb	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	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	15.7	80.0	81.5	0.000	-83.172	0.0
Pb	1A2c	Liquid	0.082	0.018	4.0	80.0	80.1	0.016	-77.978	0.0
Pb	1A2c	Other	0.014	0.000	10.0	80.0	80.6	0.000	-99.431	0.0
Pb	1A2d	Biomass	4.479	2.390	1.9	80.0	80.0	280.843	-46.654	0.8
Pb	1A2d	Liquid	0.195	0.008	4.3	80.0	80.1	0.003	-95.932	0.0
Pb	1A2d	Other	0.001	0.011	18.8	80.0	82.2	0.006	997.116	0.0
Pb	1A2d	Peat	0.499	0.001	17.9	80.0	82.0	0.000	-99.838	0.0
Pb	1A2d	Solid	1.025	0.000	30.0		30.0	0.000	-99.999	0.0
Pb	1A2e	Biomass	0.008	0.008	8.1	80.0	80.4	0.003	-1.378	0.0
Pb	1A2e	Liquid	0.083	0.001	4.9	80.0	80.2	0.000	-98.293	0.0
Pb	1A2e	Peat	0.167	0.070	5.0	80.0	80.2	0.245	-57.827	0.0
Pb	1A2e	Solid	1.384	0.017	5.0	80.0	80.2	0.015	-98.757	0.0
Pb	1A2f	Biomass	0.000	0.000	10.6	80.0	80.7	0.000	136.192	0.0
Pb	1A2f	Liquid	0.062	0.008	4.5	80.0	80.1	0.003	-87.189	0.0
Pb	1A2f	Other		0.001	29.6	80.0	85.3	0.000	NA	0.0
Pb	1A2f	Solid	2.811	0.243	5.0	80.0	80.2	2.921	-91.344	0.1
Pb	1A2gviii	Biomass	0.319	0.114	9.3	80.0	80.5	0.649	-64.197	0.0
Pb	1A2gviii	Liquid	0.113	0.001	3.5	80.0	80.1	0.000	-98.749	0.0
Pb	1A2gviii	Other	0.049	0.011	14.0	80.0	81.2	0.006	-78.095	0.0
Pb	1A2gviii	Peat	0.003	0.008	10.0	80.0	80.6	0.003	211.129	0.0
Pb	1A3aii(i)	Liquid	0.297	0.055	20.0	100.0	102.0	0.245	-81.355	0.0
Pb	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	132.824	0.0
Pb	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	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	56.979	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	15.039	0.0
Pb	1A3biii	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
Pb	1A3biii	Liquid		0.000	2.0	100.0	100.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
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	0.456	1.0	100.0	100.0	15.942	-93.690	0.2
Pb	1A3dii	Liquid	0.015	0.007	13.8	100.0	100.9	0.004	-51.629	0.0
Pb	1A4ai	Biomass	0.020	0.032	20.0	80.0	82.5	0.054	58.418	0.0
Pb	1A4ai	Liquid	0.261	0.037	15.0	80.0	81.4	0.070	-85.775	0.0
Pb	1A4ai	Peat	0.020	0.017	15.0	80.0	81.4	0.014	-17.475	0.0
Pb	1A4bi	Biomass	0.413	0.448	20.0	80.0	82.5	10.496	8.571	0.2
Pb	1A4bi	Peat	0.111	0.007	15.0	80.0	81.4	0.003	-93.385	0.0
Pb	1A4ci	Biomass	0.065	0.053	20.0	80.0	82.5	0.146	-18.662	0.0
Pb	1A4ci	Liquid	0.081	0.005	15.0	80.0	81.4	0.002	-93.256	0.0
Pb	1A4ci	Peat	0.068	0.275	10.0	80.0	80.6	3.768	304.009	0.1
Pb	1A4ciii	Liquid	0.007	0.004	15.0	100.0	101.1	0.001	-45.527	0.0
Pb	1A5a	Biomass	0.015	0.814	10.0	80.0	80.6	33.085	5221.849	0.3
Pb	1A5a	Liquid	0.211	0.029	22.4	80.0	83.1	0.045	-86.147	0.0
Pb	1B1b		0.022	0.012	30.0		30.0	0.001	-45.182	0.0
Pb	2B10a		0.001	0.001	60.0		60.0	0.000	0.000	0.0
Pb	2C1		34.463	0.291	30.0		30.0	0.585	-99.156	0.0
Pb	2C2		0.001	0.020	30.0		30.0	0.003	1920.000	0.0
Pb	2C3		0.066	0.000	30.0		30.0	0.000	-99.868	0.0
Pb	2C6		0.000	0.013	30.0		30.0	0.001	3055.000	0.0
Pb	2C7a		0.374	0.002	47.1		47.1	0.000	-99.519	0.0
Pb	2C7c		80.081	0.314	30.0		30.0	0.683	-99.607	0.0
Pb	2G		0.310	1.199	35.0	283.0	285.2	897.261	286.311	1.5
Pb	5C1bv		0.000	0.001	10.0	900.0	900.1	0.008	398.645	0.0
Pb	5E		0.001	0.000	35.0	150.0	154.0	0.000	-65.174	0.0
Total			321.435	11.410			40.7		-96.450	2.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.094	6.1	80.0	80.2	104.362	396.787	1.6
Cd	1A1a	Liquid	0.005	0.001	4.6	80.0	80.1	0.005	-87.872	0.0
Cd	1A1a	Other	0.000	0.022	9.5	80.0	80.6	6.000	19250.900	0.4
Cd	1A1a	Peat	0.023	0.014	2.0	80.0	80.0	2.144	-40.326	0.2
Cd	1A1a	Solid	0.155	0.001	27.8	80.0	84.7	0.004	-99.642	0.0
Cd	1A1b	Liquid	0.047	0.060	5.0	80.0	80.2	43.015	29.807	1.0
Cd	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	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	27.3	80.0	84.5	0.001	108.567	0.0
Cd	1A2c	Liquid	0.001	0.000	4.0	80.0	80.1	0.001	-76.185	0.0
Cd	1A2c	Other	0.002	0.000	10.0	80.0	80.6	0.000	-99.248	0.0
Cd	1A2d	Biomass	0.317	0.155	2.1	80.0	80.0	281.893	-51.098	2.6
Cd	1A2d	Liquid	0.003	0.000	3.3	80.0	80.1	0.001	-91.725	0.0
Cd	1A2d	Other	0.000	0.001	11.9	80.0	80.9	0.006	408.128	0.0
Cd	1A2d	Peat	0.008	0.000	23.2	80.0	83.3	0.000	-99.914	0.0
Cd	1A2d	Solid	0.024	0.000	30.0		30.0	0.000	-99.999	0.0
Cd	1A2e	Biomass	0.001	0.001	8.1	80.0	80.4	0.009	-7.861	0.0
Cd	1A2e	Liquid	0.001	0.000	4.9	80.0	80.2	0.000	-98.343	0.0
Cd	1A2e	Peat	0.003	0.001	5.0	80.0	80.2	0.016	-57.809	0.0
Cd	1A2e	Solid	0.032	0.000	5.0	80.0	80.2	0.002	-98.757	0.0
Cd	1A2f	Biomass	0.000	0.000	18.6	80.0	82.1	0.000	349.555	0.0
Cd	1A2f	Liquid	0.001	0.000	20.1	80.0	82.5	0.001	-55.994	0.0
Cd	1A2f	Other		0.001	30.0	80.0	85.4	0.022	NA	0.0
Cd	1A2f	Solid	0.068	0.006	5.0	80.0	80.2	0.364	-91.844	0.1
Cd	1A2gvii	Liquid	0.003	0.004	4.9	100.0	100.1	0.243	22.995	0.1
Cd	1A2gviii	Biomass	0.036	0.015	9.0	80.0	80.5	2.537	-59.111	0.2
Cd	1A2gviii	Liquid	0.001	0.000	4.8	80.0	80.1	0.000	-98.092	0.0
Cd	1A2gviii	Other	0.028	0.002	23.3	80.0	83.3	0.074	-91.400	0.0
Cd	1A2gviii	Peat	0.000	0.000	10.0	80.0	80.6	0.000	362.445	0.0
Cd	1A3bi	Diesel oil	0.011	0.009	1.0	100.0	100.0	1.459	-22.020	0.2
Cd	1A3bi	Gaseous	0.000	0.000	3.0	100.0	100.0	0.001	512.665	0.0
Cd	1A3bi	Gasoline	0.016	0.015	2.0	100.0	100.0	4.190	-4.448	0.3
Cd	1A3bii	Diesel oil	0.004	0.004	1.0	100.0	100.0	0.242	-0.868	0.1
Cd	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-22.549	0.0
Cd	1A3biii	Diesel oil	0.002	0.003	1.0	100.0	100.0	0.172	27.604	0.1
Cd	1A3biii	Gaseous	0.000	0.000	3.0	100.0	100.0	0.000	690.180	0.0
Cd	1A3biii	Liquid		0.000	2.0	100.0	100.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Cd	1A3biv	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	-57.086	0.0
Cd	1A3biv	Gasoline	0.001	0.001	2.0	100.0	100.0	0.013	10.383	0.0
Cd	1A3bvi		0.002	0.002	1.0	100.0	100.0	0.053	10.986	0.0
Cd	1A3c	Liquid	0.001	0.000	2.0	100.0	100.0	0.000	-74.920	0.0
Cd	1A3dii	Liquid	0.001	0.001	13.8	100.0	100.9	0.006	-58.026	0.0
Cd	1A4ai	Biomass	0.006	0.010	20.0	80.0	82.5	1.150	64.167	0.2
Cd	1A4ai	Liquid	0.003	0.000	15.0	80.0	81.4	0.002	-85.806	0.0
Cd	1A4ai	Peat	0.000	0.000	15.0	80.0	81.4	0.001	-17.475	0.0
Cd	1A4aii	Liquid	0.001	0.001	12.8	100.0	100.8	0.016	-30.755	0.0
Cd	1A4bi	Biomass	0.124	0.134	20.0	80.0	82.5	225.111	8.571	2.3
Cd	1A4bi	Peat	0.002	0.000	15.0	80.0	81.4	0.000	-93.385	0.0
Cd	1A4bii	Liquid	0.000	0.001	11.3	100.0	100.6	0.005	18.869	0.0
Cd	1A4ci	Biomass	0.020	0.015	20.0	80.0	82.5	2.950	-21.043	0.3
Cd	1A4ci	Liquid	0.001	0.000	15.0	80.0	81.4	0.000	-93.272	0.0
Cd	1A4ci	Peat	0.001	0.005	10.0	80.0	80.6	0.244	304.016	0.1
Cd	1A4cii	Liquid	0.003	0.002	14.6	100.0	101.1	0.101	-20.851	0.0
Cd	1A4ciii	Liquid	0.001	0.000	15.0	100.0	101.1	0.002	-45.527	0.0
Cd	1A5a	Biomass	0.002	0.090	10.0	80.0	80.6	97.337	5221.849	1.5
Cd	1A5a	Liquid	0.003	0.000	22.4	80.0	83.1	0.002	-83.289	0.0
Cd	1B1b		0.000	0.000	30.0		30.0	0.000	200.000	0.0
Cd	2C1		0.390	0.006	30.0		30.0	0.068	-98.354	0.0
Cd	2C2		0.003	0.000	30.0		30.0	0.000	-92.056	0.0
Cd	2C3		0.023	0.000	30.0		30.0	0.000	-99.917	0.0
Cd	2C6		0.850	0.004	30.0		30.0	0.027	-99.527	0.0
Cd	2C7a		0.000	0.000	30.0		30.0	0.000	-85.000	0.0
Cd	2C7c		4.203	0.031	30.0		30.0	1.601	-99.258	0.2
Cd	2G		0.049	0.023	35.0	846.0	846.7	688.237	-52.917	4.1
Cd	5C1bv		0.000	0.000	10.0	900.0	900.1	0.054	398.645	0.0
Cd	5E		0.002	0.001	35.0	100.0	105.9	0.012	-65.198	0.0
Total			6.740	0.739			38.3		-89.034	5.9

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.053	31.8	80.0	86.1	132.691	1213.724	5.9
Hg	1A1a	Liquid	0.001	0.000	16.2	80.0	81.6	0.000	-83.900	0.0
Hg	1A1a	Other	0.000	0.006	40.3	80.0	89.6	1.751	25073.084	0.7
Hg	1A1a	Peat	0.062	0.034	26.2	80.0	84.2	52.713	-44.938	3.7
Hg	1A1a	Solid	0.172	0.008	48.1	80.0	93.4	3.178	-95.642	0.9
Hg	1A1b	Liquid	0.010	0.012	5.0	80.0	80.2	6.415	30.051	1.3
Hg	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Hg	1A2a	Solid	0.017	0.000	3.0	80.0	80.1	0.000	-99.736	0.0
Hg	1A2b	Liquid	0.000	0.000	5.0	80.0	80.2	0.000	-92.647	0.0
Hg	1A2c	Biomass	0.000	0.000	49.5	80.0	94.1	0.004	25.086	0.0
Hg	1A2c	Liquid	0.000	0.000	4.0	80.0	80.1	0.000	-43.773	0.0
Hg	1A2c	Other	0.000	0.000	10.0	80.0	80.6	0.000	-92.778	0.0
Hg	1A2d	Biomass	0.089	0.078	12.9	80.0	81.0	260.626	-11.821	8.3
Hg	1A2d	Liquid	0.000	0.000	9.2	80.0	80.5	0.000	-83.067	0.0
Hg	1A2d	Other	0.000	0.000	36.5	80.0	87.9	0.002	56.756	0.0
Hg	1A2d	Peat	0.016	0.001	49.9	80.0	94.3	0.092	-91.893	0.2
Hg	1A2d	Solid	0.018	0.000	50.0		50.0	0.000	-99.808	0.0
Hg	1A2e	Biomass	0.000	0.000	8.1	80.0	80.4	0.005	120.282	0.0
Hg	1A2e	Liquid	0.000	0.000	5.0	80.0	80.2	0.000	-98.402	0.0
Hg	1A2e	Peat	0.003	0.001	5.0	80.0	80.2	0.089	-56.338	0.2
Hg	1A2e	Solid	0.006	0.000	5.0	80.0	80.2	0.000	-98.757	0.0
Hg	1A2f	Biomass	0.000	0.000	40.9	80.0	89.9	0.000	931.101	0.0
Hg	1A2f	Liquid	0.000	0.012	49.9	80.0	94.3	7.753	15951.283	1.4
Hg	1A2f	Other		0.003	50.0	80.0	94.3	0.575	NA	0.4
Hg	1A2f	Solid	0.017	0.002	25.1	80.0	83.9	0.236	-86.511	0.2
Hg	1A2gviii	Biomass	0.005	0.004	12.2	80.0	80.9	0.771	-6.969	0.4
Hg	1A2gviii	Liquid	0.000	0.000	49.0	80.0	93.8	0.001	-29.787	0.0
Hg	1A2gviii	Other	0.171	0.005	49.5	80.0	94.1	1.723	-96.796	0.7
Hg	1A2gviii	Peat	0.000	0.000	11.6	80.0	80.8	0.010	118.351	0.1
Hg	1A3bi	Diesel oil	0.002	0.003	1.0	100.0	100.0	0.735	93.437	0.4
Hg	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
Hg	1A3bi	Gasoline	0.016	0.010	2.0	100.0	100.0	6.459	-35.883	1.3
Hg	1A3bii	Diesel oil	0.001	0.002	1.0	100.0	100.0	0.219	36.335	0.2
Hg	1A3bii	Gasoline	0.001	0.000	2.0	100.0	100.0	0.000	-93.840	0.0
Hg	1A3biii	Diesel oil	0.005	0.006	1.0	100.0	100.0	2.179	10.615	0.8
Hg	1A3biii	Liquid		0.000	2.0	100.0	100.0	0.000	NA	0.0
Hg	1A3biv	Diesel oil		0.000	1.0	100.0	100.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Hg	1A3biv	Gasoline	0.000	0.000	2.0	100.0	100.0	0.005	126.230	0.0
Hg	1A3dii	Liquid	0.003	0.002	13.8	100.0	100.9	0.154	-39.664	0.2
Hg	1A4ai	Biomass	0.001	0.002	20.0	80.0	82.5	0.113	65.581	0.2
Hg	1A4ai	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-85.844	0.0
Hg	1A4ai	Peat	0.000	0.000	15.0	80.0	81.4	0.003	-17.475	0.0
Hg	1A4bi	Biomass	0.021	0.022	20.0	80.0	82.5	22.070	8.571	2.4
Hg	1A4bi	Peat	0.002	0.000	15.0	80.0	81.4	0.001	-93.385	0.0
Hg	1A4ci	Biomass	0.003	0.003	20.0	80.0	82.5	0.291	-20.745	0.3
Hg	1A4ci	Liquid	0.000	0.000	15.0	80.0	81.4	0.000	-93.292	0.0
Hg	1A4ci	Peat	0.001	0.004	10.0	80.0	80.6	0.752	306.863	0.4
Hg	1A4ciii	Liquid	0.002	0.001	15.0	100.0	101.1	0.055	-45.527	0.1
Hg	1A5a	Biomass	0.000	0.009	10.0	80.0	80.6	3.435	5221.849	0.9
Hg	1A5a	Liquid	0.000	0.000	22.4	80.0	83.1	0.004	-38.433	0.0
Hg	1B1b		0.000	0.000	50.0		50.0	0.000	-48.200	0.0
Hg	2B10a		0.369	0.035	98.8		98.8	78.153	-90.460	4.5
Hg	2C1		0.005	0.039	50.0		50.0	24.746	682.875	2.5
Hg	2C2		0.000	0.001	50.0		50.0	0.032	789.715	0.1
Hg	2C6			0.002	50.0		50.0	0.079	NA	0.1
Hg	2C7a		0.007	0.000	100.0		100.0	0.000	-99.941	0.0
Hg	2C7c		0.028	0.004	50.0		50.0	0.272	-85.347	0.3
Hg	2G		0.000	0.000	35.0	777.0	777.8	0.030	286.311	0.1
Hg	5C1bv		0.006	0.024	10.0	900.0	900.1	3037.169	307.338	28.2
Hg	5E		0.002	0.001	35.0	100.0	105.9	0.042	-65.198	0.1
Total			1.087	0.393			60.4		-63.788	30.9

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.030	13.3	80.0	81.1	2.219	603.884	0.1

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	Liquid	0.029	0.004	3.1	80.0	80.1	0.030	-87.830	0.0
As	1A1a	Other	0.000	0.011	22.8	80.0	83.2	0.281	45282.488	0.0
As	1A1a	Peat	0.628	0.433	2.3	80.0	80.0	437.479	-31.150	1.4
As	1A1a	Solid	1.618	0.010	28.3	80.0	84.9	0.257	-99.389	0.0
As	1A1b	Liquid	0.336	0.437	5.0	80.0	80.2	447.581	29.997	1.4
As	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	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	27.3	80.0	84.5	0.000	547.158	0.0
As	1A2c	Liquid	0.007	0.001	4.0	80.0	80.1	0.004	-80.943	0.0
As	1A2c	Other	0.000	0.000	10.0	80.0	80.6	0.000	-99.247	0.0
As	1A2d	Biomass	0.160	0.132	3.4	80.0	80.1	40.589	-17.738	0.4
As	1A2d	Liquid	0.018	0.001	7.0	80.0	80.3	0.004	-92.733	0.0
As	1A2d	Other	0.000	0.001	25.4	80.0	83.9	0.001	2416.746	0.0
As	1A2d	Peat	0.238	0.001	18.1	80.0	82.0	0.004	-99.453	0.0
As	1A2d	Solid	0.229	0.000	30.0		30.0	0.000	-99.979	0.0
As	1A2e	Biomass	0.000	0.000	8.1	80.0	80.4	0.000	26.808	0.0
As	1A2e	Liquid	0.007	0.000	4.9	80.0	80.2	0.000	-99.021	0.0
As	1A2e	Peat	0.080	0.034	5.0	80.0	80.2	2.647	-57.836	0.1
As	1A2e	Solid	0.228	0.003	5.0	80.0	80.2	0.019	-98.757	0.0
As	1A2f	Biomass	0.000	0.000	27.8	80.0	84.7	0.000	2312.391	0.0
As	1A2f	Liquid	0.005	0.002	25.1	80.0	83.8	0.006	-67.508	0.0
As	1A2f	Other		0.000	29.8	80.0	85.4	0.000	NA	0.0
As	1A2f	Solid	0.491	0.040	5.0	80.0	80.2	3.798	-91.808	0.1
As	1A2gviii	Biomass	0.007	0.003	9.1	80.0	80.5	0.020	-59.531	0.0
As	1A2gviii	Liquid	0.009	0.000	10.4	80.0	80.7	0.000	-97.844	0.0
As	1A2gviii	Other	0.001	0.001	27.1	80.0	84.5	0.004	78.136	0.0
As	1A2gviii	Peat	0.001	0.004	9.6	80.0	80.6	0.035	209.584	0.0
As	1A3bi	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	93.437	0.0
As	1A3bi	Gaseous		0.000	3.0	100.0	100.0	0.000	NA	0.0
As	1A3bi	Gasoline	0.001	0.000	2.0	100.0	100.0	0.000	-35.883	0.0
As	1A3bii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	36.335	0.0
As	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-93.840	0.0
As	1A3biii	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	10.615	0.0
As	1A3biii	Liquid		0.000	2.0	100.0	100.0	0.000	NA	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	126.230	0.0
As	1A3bvi		0.036	0.040	1.0	100.0	100.0	5.988	10.970	0.2

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
As	1A3dii	Liquid	0.028	0.005	13.8	100.0	100.9	0.090	-82.651	0.0
As	1A4ai	Biomass	0.002	0.003	20.0	80.0	82.5	0.025	65.581	0.0
As	1A4ai	Liquid	0.021	0.003	15.0	80.0	81.4	0.021	-85.787	0.0
As	1A4ai	Peat	0.010	0.008	15.0	80.0	81.4	0.156	-17.475	0.0
As	1A4bi	Biomass	0.041	0.045	20.0	80.0	82.5	4.990	8.571	0.2
As	1A4bi	Peat	0.053	0.003	15.0	80.0	81.4	0.029	-93.385	0.0
As	1A4ci	Biomass	0.007	0.005	20.0	80.0	82.5	0.064	-21.629	0.0
As	1A4ci	Liquid	0.006	0.000	15.0	80.0	81.4	0.000	-94.041	0.0
As	1A4ci	Peat	0.032	0.133	10.0	80.0	80.6	41.829	309.750	0.4
As	1A4ciii	Liquid	0.002	0.001	15.0	100.0	101.1	0.005	-45.527	0.0
As	1A5a	Biomass	0.000	0.018	10.0	80.0	80.6	0.777	5221.849	0.1
As	1A5a	Liquid	0.017	0.003	22.4	80.0	83.1	0.017	-84.829	0.0
As	1B1b		0.004	0.005	30.0		30.0	0.007	17.750	0.0
As	2C1		0.411	0.043	30.0		30.0	0.598	-89.622	0.1
As	2C2		0.002	0.001	30.0		30.0	0.000	-45.000	0.0
As	2C3		0.008	0.000	30.0		30.0	0.000	-98.863	0.0
As	2C6		1.700	0.027	30.0		30.0	0.237	-98.422	0.0
As	2C7a		0.113	0.012	55.3		55.3	0.154	-89.619	0.0
As	2C7c		28.000	0.149	30.0		30.0	7.249	-99.470	0.2
As	2G		0.001	0.002	35.0	877.0	877.7	1.163	286.311	0.1
As	5C1bv		0.000	0.001	10.0	900.0	900.1	0.079	398.645	0.0
As	5E		0.003	0.001	35.0	107.0	112.6	0.007	-65.050	0.0
Total			34.817	1.655			31.6		-95.247	2.1

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.541	6.1	80.0	80.2	11.440	364.246	1.3
Cr	1A1a	Liquid	0.015	0.002	4.2	80.0	80.1	0.000	-86.249	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	Other	0.001	0.156	9.5	80.0	80.6	0.956	20007.150	0.4
Cr	1A1a	Peat	1.076	0.676	2.0	80.0	80.0	17.745	-37.183	1.6
Cr	1A1a	Solid	6.765	0.018	28.8	80.0	85.0	0.015	-99.730	0.0
Cr	1A1b	Liquid	2.574	3.360	5.0	80.0	80.2	440.233	30.520	8.0
Cr	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Cr	1A2b	Liquid	0.001	0.000	3.6	80.0	80.1	0.000	-77.385	0.0
Cr	1A2b	Solid	1.845	0.220	4.9	80.0	80.2	1.880	-88.098	0.5
Cr	1A2c	Biomass	0.000	0.005	29.0	80.0	85.1	0.001	1356.553	0.0
Cr	1A2c	Liquid	0.003	0.001	4.0	80.0	80.1	0.000	-76.367	0.0
Cr	1A2c	Other	0.011	0.000	10.0	80.0	80.6	0.000	-99.570	0.0
Cr	1A2d	Biomass	0.558	0.138	20.7	80.0	82.6	0.794	-75.180	0.3
Cr	1A2d	Liquid	0.009	0.002	20.8	80.0	82.7	0.000	-80.598	0.0
Cr	1A2d	Other	0.001	0.012	21.8	80.0	82.9	0.006	1754.455	0.0
Cr	1A2d	Peat	0.411	0.002	29.0	80.0	85.1	0.000	-99.443	0.0
Cr	1A2d	Solid	1.263	0.000	30.0		30.0	0.000	-99.994	0.0
Cr	1A2e	Biomass	0.006	0.005	8.1	80.0	80.4	0.001	-14.830	0.0
Cr	1A2e	Liquid	0.003	0.000	5.0	80.0	80.2	0.000	-98.182	0.0
Cr	1A2e	Peat	0.138	0.058	5.0	80.0	80.2	0.131	-57.828	0.1
Cr	1A2e	Solid	1.752	0.022	5.0	80.0	80.2	0.018	-98.757	0.1
Cr	1A2f	Biomass	0.000	0.000	10.7	80.0	80.7	0.000	139.002	0.0
Cr	1A2f	Liquid	0.002	0.003	27.1	80.0	84.5	0.000	46.393	0.0
Cr	1A2f	Other		0.002	29.9	80.0	85.4	0.000	NA	0.0
Cr	1A2f	Solid	3.365	0.308	5.0	80.0	80.2	3.703	-90.843	0.7
Cr	1A2gvii	Liquid	0.015	0.018	4.9	100.0	100.1	0.020	22.995	0.1
Cr	1A2gviii	Biomass	0.817	0.088	9.2	80.0	80.5	0.303	-89.257	0.2
Cr	1A2gviii	Liquid	0.016	0.000	10.9	80.0	80.7	0.000	-99.316	0.0
Cr	1A2gviii	Other	0.024	0.061	27.8	80.0	84.7	0.160	147.518	0.2
Cr	1A2gviii	Peat	0.002	0.007	10.0	80.0	80.6	0.002	209.861	0.0
Cr	1A3bi	Diesel oil	0.055	0.043	1.0	100.0	100.0	0.112	-22.317	0.1
Cr	1A3bi	Gaseous	0.000	0.001	3.0	100.0	100.0	0.000	513.903	0.0
Cr	1A3bi	Gasoline	0.074	0.070	2.0	100.0	100.0	0.297	-5.123	0.2
Cr	1A3bii	Diesel oil	0.018	0.018	1.0	100.0	100.0	0.020	-1.274	0.1
Cr	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-22.694	0.0
Cr	1A3biii	Diesel oil	0.018	0.022	1.0	100.0	100.0	0.029	24.472	0.1
Cr	1A3biii	Gaseous	0.000	0.000	3.0	100.0	100.0	0.000	690.180	0.0
Cr	1A3biii	Liquid		0.000	2.0	100.0	100.0	0.000	NA	0.0
Cr	1A3biv	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	-57.187	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Cr	1A3biv	Gasoline	0.003	0.004	2.0	100.0	100.0	0.001	11.040	0.0
Cr	1A3bvi		1.143	1.269	1.0	100.0	100.0	97.708	11.040	3.8
Cr	1A3c	Liquid	0.003	0.001	2.0	100.0	100.0	0.000	-74.920	0.0
Cr	1A3dii	Liquid	0.030	0.006	13.8	100.0	100.9	0.002	-81.703	0.0
Cr	1A4ai	Biomass	0.068	0.112	20.0	80.0	82.5	0.519	65.581	0.3
Cr	1A4ai	Liquid	0.010	0.001	15.0	80.0	81.4	0.000	-85.787	0.0
Cr	1A4ai	Peat	0.017	0.014	15.0	80.0	81.4	0.008	-17.475	0.0
Cr	1A4aaii	Liquid	0.007	0.005	12.8	100.0	100.8	0.001	-30.755	0.0
Cr	1A4bi	Biomass	1.445	1.569	20.0	80.0	82.5	101.600	8.571	3.8
Cr	1A4bi	Peat	0.091	0.006	15.0	80.0	81.4	0.001	-93.385	0.0
Cr	1A4bii	Liquid	0.002	0.003	11.3	100.0	100.6	0.000	18.869	0.0
Cr	1A4ci	Biomass	0.228	0.178	20.0	80.0	82.5	1.310	-21.671	0.4
Cr	1A4ci	Liquid	0.003	0.000	15.0	80.0	81.4	0.000	-93.262	0.0
Cr	1A4ci	Peat	0.056	0.226	10.0	80.0	80.6	2.019	304.008	0.5
Cr	1A4cii	Liquid	0.015	0.012	14.6	100.0	101.1	0.008	-20.851	0.0
Cr	1A4ciii	Liquid	0.003	0.002	15.0	100.0	101.1	0.000	-45.527	0.0
Cr	1A5a	Biomass	0.012	0.633	10.0	80.0	80.6	15.815	5221.849	1.5
Cr	1A5a	Liquid	0.009	0.002	22.4	80.0	83.1	0.000	-81.704	0.0
Cr	1B1b		0.003	0.021	30.0		30.0	0.002	598.000	0.0
Cr	2C1		19.554	2.242	30.0		30.0	27.462	-88.533	2.0
Cr	2C2		2.000	0.636	30.0		30.0	2.209	-68.200	0.6
Cr	2C7a		0.145	0.002	30.0		30.0	0.000	-98.417	0.0
Cr	2C7c		0.520	0.008	30.0		30.0	0.000	-98.525	0.0
Cr	2G		0.006	0.024	35.0	862.0	862.7	2.569	286.311	0.6
Cr	5C1bv		0.000	0.001	10.0	900.0	900.1	0.001	398.645	0.0
Cr	5E		0.003	0.001	35.0	108.0	113.5	0.000	-65.113	0.0
Total			47.814	12.836			27.0		-73.154	10.3

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.952	7.7	80.0	80.4	3.215	447.887	0.7
Cu	1A1a	Liquid	0.034	0.005	3.3	80.0	80.1	0.000	-84.138	0.0
Cu	1A1a	Other	0.001	0.206	13.0	80.0	81.1	0.153	17331.621	0.1
Cu	1A1a	Peat	1.662	1.069	2.0	80.0	80.0	4.018	-35.700	0.7
Cu	1A1a	Solid	5.471	0.016	28.9	80.0	85.1	0.001	-99.712	0.0
Cu	1A1b	Liquid	0.902	1.176	5.0	80.0	80.2	4.883	30.333	0.8
Cu	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Cu	1A2b	Liquid	0.001	0.000	5.0	80.0	80.2	0.000	-91.887	0.0
Cu	1A2c	Biomass	0.001	0.004	28.0	80.0	84.8	0.000	189.343	0.0
Cu	1A2c	Liquid	0.008	0.002	4.0	80.0	80.1	0.000	-75.205	0.0
Cu	1A2c	Other	0.016	0.000	10.0	80.0	80.6	0.000	-99.263	0.0
Cu	1A2d	Biomass	0.813	0.191	22.3	80.0	83.0	0.139	-76.457	0.1
Cu	1A2d	Liquid	0.022	0.037	29.0	80.0	85.1	0.006	71.593	0.0
Cu	1A2d	Other	0.001	0.015	20.5	80.0	82.6	0.001	971.085	0.0
Cu	1A2d	Peat	0.646	0.002	28.4	80.0	84.9	0.000	-99.633	0.0
Cu	1A2d	Solid	0.648	0.000	30.0		30.0	0.000	-99.997	0.0
Cu	1A2e	Biomass	0.009	0.007	8.1	80.0	80.4	0.000	-21.138	0.0
Cu	1A2e	Liquid	0.008	0.000	4.9	80.0	80.2	0.000	-98.295	0.0
Cu	1A2e	Peat	0.216	0.091	5.0	80.0	80.2	0.029	-57.833	0.1
Cu	1A2e	Solid	0.613	0.008	5.0	80.0	80.2	0.000	-98.757	0.0
Cu	1A2f	Biomass	0.000	0.001	16.5	80.0	81.7	0.000	275.209	0.0
Cu	1A2f	Liquid	0.006	0.002	16.3	80.0	81.6	0.000	-70.357	0.0
Cu	1A2f	Other		0.001	29.7	80.0	85.3	0.000	NA	0.0
Cu	1A2f	Solid	1.280	0.108	5.0	80.0	80.2	0.041	-91.578	0.1
Cu	1A2gvii	Liquid	0.503	0.619	4.9	100.0	100.1	2.109	22.995	0.5
Cu	1A2gviii	Biomass	0.699	0.134	9.4	80.0	80.5	0.064	-80.876	0.1
Cu	1A2gviii	Liquid	0.022	0.000	5.6	80.0	80.2	0.000	-99.262	0.0
Cu	1A2gviii	Other	0.037	0.014	13.3	80.0	81.1	0.001	-62.698	0.0
Cu	1A2gviii	Peat	0.003	0.010	10.0	80.0	80.6	0.000	204.625	0.0
Cu	1A3bi	Diesel oil	1.951	1.521	1.0	100.0	100.0	12.723	-22.017	1.3
Cu	1A3bi	Gaseous	0.005	0.034	3.0	100.0	100.0	0.006	512.497	0.0
Cu	1A3bi	Gasoline	2.662	2.547	2.0	100.0	100.0	35.661	-4.346	2.2
Cu	1A3bii	Diesel oil	0.624	0.619	1.0	100.0	100.0	2.105	-0.864	0.5
Cu	1A3bii	Gasoline	0.009	0.007	2.0	100.0	100.0	0.000	-22.527	0.0
Cu	1A3biii	Diesel oil	0.407	0.520	1.0	100.0	100.0	1.484	27.651	0.5
Cu	1A3biii	Gaseous	0.001	0.009	3.0	100.0	100.0	0.000	690.180	0.0
Cu	1A3biii	Liquid		0.005	2.0	100.0	100.0	0.000	NA	0.0

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Cu	1A3biv	Diesel oil	0.006	0.003	1.0	100.0	100.0	0.000	-57.085	0.0
Cu	1A3biv	Gasoline	0.130	0.144	2.0	100.0	100.0	0.114	10.291	0.1
Cu	1A3bvi		49.238	28.572	1.0	100.0	100.0	4487.243	-41.971	24.8
Cu	1A3c	Liquid	0.103	0.026	2.0	100.0	100.0	0.004	-74.920	0.0
Cu	1A3dii	Liquid	0.100	0.048	13.8	100.0	100.9	0.013	-52.075	0.0
Cu	1A4ai	Biomass	0.013	0.019	20.0	80.0	82.5	0.001	50.954	0.0
Cu	1A4ai	Liquid	0.026	0.004	15.0	80.0	81.4	0.000	-85.775	0.0
Cu	1A4ai	Peat	0.026	0.022	15.0	80.0	81.4	0.002	-17.475	0.0
Cu	1A4aii	Liquid	0.227	0.157	12.8	100.0	100.8	0.138	-30.755	0.1
Cu	1A4bi	Biomass	0.248	0.269	20.0	80.0	82.5	0.270	8.571	0.2
Cu	1A4bi	Peat	0.143	0.009	15.0	80.0	81.4	0.000	-93.385	0.0
Cu	1A4bii	Liquid	0.075	0.089	11.3	100.0	100.6	0.044	18.869	0.1
Cu	1A4ci	Biomass	0.039	0.032	20.0	80.0	82.5	0.004	-16.766	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	0.356	10.0	80.0	80.6	0.452	304.009	0.2
Cu	1A4cii	Liquid	0.499	0.395	14.6	100.0	101.1	0.874	-20.851	0.3
Cu	1A4ciii	Liquid	0.049	0.027	15.0	100.0	101.1	0.004	-45.527	0.0
Cu	1A5a	Biomass	0.017	0.923	10.0	80.0	80.6	3.041	5221.849	0.6
Cu	1A5a	Liquid	0.029	0.012	22.4	80.0	83.1	0.001	-57.704	0.0
Cu	1B1b		0.004	0.006	30.0		30.0	0.000	59.250	0.0
Cu	2B10a		0.270	0.003	30.0		30.0	0.000	-98.963	0.0
Cu	2C1		5.540	0.526	30.0		30.0	0.137	-90.510	0.1
Cu	2C2		0.003	0.024	30.0		30.0	0.000	826.868	0.0
Cu	2C6			0.014	30.0		30.0	0.000	NA	0.0
Cu	2C7a		4.803	0.006	30.0		30.0	0.000	-99.867	0.0
Cu	2C7c		80.257	0.338	30.0		30.0	0.056	-99.579	0.1
Cu	2G		0.224	0.699	35.0	350.0	351.7	33.267	212.574	2.1
Cu	5C1bv		0.000	0.000	10.0	900.0	900.1	0.000	398.645	0.0
Cu	5E		0.008	0.003	35.0	103.0	108.8	0.000	-65.181	0.0
Total			162.696	42.656			67.8		-73.782	25.1

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Ni	1A1a	Biomass	0.101	0.525	8.1	80.0	80.4	18.653	420.074	0.8
Ni	1A1a	Liquid	3.688	0.584	4.1	80.0	80.1	22.850	-84.173	0.8
Ni	1A1a	Other	0.001	0.153	9.9	80.0	80.6	1.594	22714.732	0.2
Ni	1A1a	Peat	1.066	0.677	2.0	80.0	80.0	30.723	-36.449	1.0
Ni	1A1a	Solid	5.396	0.052	29.8	80.0	85.4	0.209	-99.030	0.1
Ni	1A1b	Liquid	1.875	0.002	30.0		30.0	0.000	-99.893	0.0
Ni	1A2a	Biomass		0.000	10.0	80.0	80.6	0.000	NA	0.0
Ni	1A2b	Liquid	0.124	0.009	5.0	80.0	80.2	0.006	-92.647	0.0
Ni	1A2b	Solid	1.115	0.003	5.0	80.0	80.2	0.001	-99.754	0.0
Ni	1A2c	Biomass	0.000	0.029	29.8	80.0	85.4	0.063	9285.981	0.0
Ni	1A2c	Liquid	0.833	0.214	4.0	80.0	80.1	3.079	-74.274	0.3
Ni	1A2c	Other	0.009	0.000	10.0	80.0	80.6	0.000	-99.498	0.0
Ni	1A2d	Biomass	0.475	0.191	23.9	80.0	83.5	2.655	-59.851	0.3
Ni	1A2d	Liquid	2.234	0.066	7.0	80.0	80.3	0.291	-97.057	0.1
Ni	1A2d	Other	0.001	0.017	13.4	80.0	81.1	0.021	2783.725	0.0
Ni	1A2d	Peat	0.412	0.019	29.6	80.0	85.3	0.026	-95.489	0.0
Ni	1A2d	Solid	1.036	0.000	29.5	80.0	85.3	0.000	-99.991	0.0
Ni	1A2e	Biomass	0.005	0.014	8.1	80.0	80.4	0.013	149.363	0.0
Ni	1A2e	Liquid	1.007	0.017	4.9	80.0	80.2	0.019	-98.311	0.0
Ni	1A2e	Peat	0.138	0.058	5.0	80.0	80.2	0.226	-57.849	0.1
Ni	1A2e	Solid	1.401	0.017	5.0	80.0	80.2	0.020	-98.757	0.0
Ni	1A2f	Biomass	0.000	0.000	10.0	80.0	80.6	0.000	120.301	0.0
Ni	1A2f	Liquid	0.676	0.084	3.8	80.0	80.1	0.468	-87.635	0.1
Ni	1A2f	Other		0.001	29.9	80.0	85.4	0.000	NA	0.0
Ni	1A2f	Solid	2.771	0.246	5.0	80.0	80.2	4.080	-91.105	0.4
Ni	1A2gvii	Liquid	0.021	0.025	4.9	100.0	100.1	0.068	22.995	0.0
Ni	1A2gviii	Biomass	0.212	0.076	9.3	80.0	80.5	0.390	-64.190	0.1
Ni	1A2gviii	Liquid	1.361	0.016	3.7	80.0	80.1	0.016	-98.856	0.0
Ni	1A2gviii	Other	0.021	0.015	22.4	80.0	83.1	0.016	-29.021	0.0
Ni	1A2gviii	Peat	0.002	0.007	10.0	80.0	80.6	0.003	208.047	0.0
Ni	1A3bi	Diesel oil	0.080	0.062	1.0	100.0	100.0	0.406	-22.017	0.1
Ni	1A3bi	Gaseous	0.000	0.001	3.0	100.0	100.0	0.000	512.790	0.0
Ni	1A3bi	Gasoline	0.112	0.107	2.0	100.0	100.0	1.193	-4.521	0.2
Ni	1A3bii	Diesel oil	0.026	0.025	1.0	100.0	100.0	0.067	-0.862	0.0
Ni	1A3bii	Gasoline	0.000	0.000	2.0	100.0	100.0	0.000	-22.565	0.0
Ni	1A3biii	Diesel oil	0.017	0.021	1.0	100.0	100.0	0.047	27.664	0.0
Ni	1A3biii	Gaseous	0.000	0.000	3.0	100.0	100.0	0.000	690.180	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Ni	1A3biii	Liquid	0.000	0.000	2.0	100.0	100.0	0.000	NA	0.0
Ni	1A3biv	Diesel oil	0.000	0.000	1.0	100.0	100.0	0.000	-57.085	0.0
Ni	1A3biv	Gasoline	0.005	0.006	2.0	100.0	100.0	0.004	10.451	0.0
Ni	1A3bvi		0.164	0.182	1.0	100.0	100.0	3.469	11.032	0.3
Ni	1A3c	Liquid	0.004	0.001	2.0	100.0	100.0	0.000	-74.920	0.0
Ni	1A3dii	Liquid	1.280	0.189	13.8	100.0	100.9	3.797	-85.253	0.3
Ni	1A4ai	Biomass	0.058	0.096	20.0	80.0	82.5	0.657	65.581	0.1
Ni	1A4ai	Liquid	3.134	0.446	15.0	80.0	81.4	13.745	-85.787	0.7
Ni	1A4ai	Peat	0.017	0.014	15.0	80.0	81.4	0.013	-17.475	0.0
Ni	1A4aai	Liquid	0.009	0.006	12.8	100.0	100.8	0.004	-30.755	0.0
Ni	1A4bi	Biomass	1.239	1.345	20.0	80.0	82.5	128.568	8.571	2.0
Ni	1A4bi	Peat	0.091	0.006	15.0	80.0	81.4	0.003	-93.385	0.0
Ni	1A4bii	Liquid	0.003	0.004	11.3	100.0	100.6	0.001	18.869	0.0
Ni	1A4ci	Biomass	0.195	0.153	20.0	80.0	82.5	1.658	-21.662	0.2
Ni	1A4ci	Liquid	0.971	0.065	15.0	80.0	81.4	0.296	-93.262	0.1
Ni	1A4ci	Peat	0.056	0.226	10.0	80.0	80.6	3.478	304.008	0.3
Ni	1A4cii	Liquid	0.021	0.016	14.6	100.0	101.1	0.028	-20.851	0.0
Ni	1A4ciii	Liquid	0.056	0.030	15.0	100.0	101.1	0.098	-45.527	0.1
Ni	1A5a	Biomass	0.010	0.543	10.0	80.0	80.6	20.013	5221.849	0.8
Ni	1A5a	Liquid	2.531	0.346	22.4	80.0	83.1	8.656	-86.313	0.5
Ni	1B1b		0.002	0.010	30.0		30.0	0.001	417.000	0.0
Ni	2B10a		1.052	0.064	30.0		30.0	0.038	-93.954	0.0
Ni	2C1		2.002	0.722	30.0		30.0	4.903	-63.948	0.4
Ni	2C2		0.017	0.048	30.0		30.0	0.022	182.353	0.0
Ni	2C7a		0.508	0.000	60.0		60.0	0.000	-99.951	0.0
Ni	2C7b		5.000	0.769	30.0		30.0	5.564	-84.620	0.4
Ni	2C7c		31.000	1.100	30.0		30.0	11.389	-96.451	0.6
Ni	2G		0.036	0.056	35.0	400.0	401.5	5.320	56.504	0.4
Ni	5C1bv		0.000	0.001	10.0	900.0	900.1	0.004	398.645	0.0
Total			78.685	9.781			17.3		-87.570	3.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	11.505	5.6	80.0	80.2	65.924	394.486	1.9
Zn	1A1a	Liquid	0.170	0.025	3.1	80.0	80.1	0.000	-85.116	0.0
Zn	1A1a	Other	0.016	3.736	9.5	80.0	80.6	7.017	23470.505	0.6
Zn	1A1a	Peat	2.706	1.629	2.0	80.0	80.0	1.316	-39.800	0.3
Zn	1A1a	Solid	28.018	0.130	28.9	80.0	85.1	0.009	-99.537	0.0
Zn	1A1b	Liquid	3.869	5.040	5.0	80.0	80.2	12.639	30.265	0.8
Zn	1A2a	Biomass		0.007	10.0	80.0	80.6	0.000	NA	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	0.016	23.3	80.0	83.3	0.000	11.753	0.0
Zn	1A2c	Liquid	0.040	0.009	4.0	80.0	80.1	0.000	-76.278	0.0
Zn	1A2c	Other	0.215	0.001	10.0	80.0	80.6	0.000	-99.419	0.0
Zn	1A2d	Biomass	10.754	0.905	5.6	80.0	80.2	0.408	-91.584	0.1
Zn	1A2d	Liquid	0.110	0.078	27.6	80.0	84.6	0.003	-28.982	0.0
Zn	1A2d	Other	0.016	0.298	9.7	80.0	80.6	0.045	1798.060	0.0
Zn	1A2d	Peat	0.999	0.007	7.7	80.0	80.4	0.000	-99.302	0.0
Zn	1A2d	Solid	3.342	0.001	5.0	80.0	80.2	0.000	-99.982	0.0
Zn	1A2e	Biomass	0.126	0.101	8.1	80.0	80.4	0.005	-20.452	0.0
Zn	1A2e	Liquid	0.040	0.001	4.9	80.0	80.2	0.000	-98.314	0.0
Zn	1A2e	Peat	0.328	0.139	5.0	80.0	80.2	0.010	-57.712	0.0
Zn	1A2e	Solid	2.627	0.033	5.0	80.0	80.2	0.001	-98.757	0.0
Zn	1A2f	Biomass	0.003	0.079	10.0	80.0	80.6	0.003	3045.665	0.0
Zn	1A2f	Liquid	0.327	0.521	3.8	80.0	80.1	0.135	59.013	0.1
Zn	1A2f	Other		0.740	10.0	80.0	80.6	0.276	NA	0.1
Zn	1A2f	Solid	5.497	0.517	5.0	80.0	80.2	0.133	-90.603	0.1
Zn	1A2gvii	Liquid	0.296	0.364	4.9	100.0	100.1	0.103	22.995	0.1
Zn	1A2gviii	Biomass	4.949	2.151	9.4	80.0	80.6	2.325	-56.543	0.4
Zn	1A2gviii	Liquid	0.055	0.002	3.5	80.0	80.1	0.000	-96.942	0.0
Zn	1A2gviii	Other	0.221	1.125	10.0	80.0	80.6	0.637	408.045	0.2
Zn	1A2gviii	Peat	0.005	0.028	10.0	80.0	80.6	0.000	429.346	0.0
Zn	1A3bi	Diesel oil	1.141	0.890	1.0	100.0	100.0	0.613	-22.043	0.2
Zn	1A3bi	Gaseous	0.003	0.019	3.0	100.0	100.0	0.000	512.795	0.0
Zn	1A3bi	Gasoline	1.580	1.509	2.0	100.0	100.0	1.763	-4.524	0.3
Zn	1A3bii	Diesel oil	0.367	0.363	1.0	100.0	100.0	0.102	-0.900	0.1
Zn	1A3bii	Gasoline	0.005	0.004	2.0	100.0	100.0	0.000	-22.566	0.0
Zn	1A3biii	Diesel oil	0.249	0.317	1.0	100.0	100.0	0.078	27.254	0.1
Zn	1A3biii	Gaseous	0.001	0.005	3.0	100.0	100.0	0.000	690.180	0.0
Zn	1A3biii	Liquid		0.003	2.0	100.0	100.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
Zn	1A3biv	Diesel oil	0.003	0.001	1.0	100.0	100.0	0.000	-57.094	0.0
Zn	1A3biv	Gasoline	0.076	0.084	2.0	100.0	100.0	0.005	10.454	0.0
Zn	1A3bvi		18.420	18.119	1.0	100.0	100.0	254.273	-1.633	3.7
Zn	1A3c	Liquid	0.060	0.015	2.0	100.0	100.0	0.000	-74.920	0.0
Zn	1A3dii	Liquid	0.117	0.063	13.8	100.0	100.9	0.003	-46.059	0.0
Zn	1A4ai	Biomass	1.355	2.243	20.0	80.0	82.5	2.649	65.581	0.4
Zn	1A4ai	Liquid	0.125	0.018	15.0	80.0	81.4	0.000	-85.787	0.0
Zn	1A4ai	Peat	0.040	0.033	15.0	80.0	81.4	0.001	-17.475	0.0
Zn	1A4aii	Liquid	0.134	0.092	12.8	100.0	100.8	0.007	-30.755	0.0
Zn	1A4bi	Biomass	28.903	31.380	20.0	80.0	82.5	518.577	8.571	5.3
Zn	1A4bi	Peat	0.215	0.014	15.0	80.0	81.4	0.000	-93.385	0.0
Zn	1A4bii	Liquid	0.044	0.052	11.3	100.0	100.6	0.002	18.869	0.0
Zn	1A4ci	Biomass	4.550	3.565	20.0	80.0	82.5	6.691	-21.652	0.6
Zn	1A4ci	Liquid	0.039	0.003	15.0	80.0	81.4	0.000	-93.262	0.0
Zn	1A4ci	Peat	0.132	0.533	10.0	80.0	80.6	0.143	304.115	0.1
Zn	1A4cii	Liquid	0.293	0.232	14.6	100.0	101.1	0.043	-20.851	0.0
Zn	1A4ciii	Liquid	0.067	0.036	15.0	100.0	101.1	0.001	-45.527	0.0
Zn	1A5a	Biomass	0.238	12.663	10.0	80.0	80.6	80.723	5221.849	2.1
Zn	1A5a	Liquid	0.111	0.025	22.4	80.0	83.1	0.000	-77.407	0.0
Zn	1B1b		0.160	0.029	30.0		30.0	0.000	-81.713	0.0
Zn	2B10a		0.010	0.250	60.0		60.0	0.017	2400.000	0.0
Zn	2C1		303.559	1.781	30.0		30.0	0.221	-99.413	0.1
Zn	2C2		0.100	0.779	30.0		30.0	0.042	679.000	0.0
Zn	2C3		0.127	0.002	30.0		30.0	0.000	-98.291	0.0
Zn	2C6		90.174	7.741	30.0		30.0	4.177	-91.415	0.5
Zn	2C7a		2.563	0.005	30.0		30.0	0.000	-99.797	0.0
Zn	2C7c		160.391	1.164	30.0		30.0	0.094	-99.274	0.1
Zn	2G		0.127	0.408	35.0	669.0	669.9	5.781	221.311	0.6
Zn	5C1bv		0.001	0.006	10.0	900.0	900.1	0.002	398.645	0.0
Total			686.187	113.633			31.1		-83.440	7.3

Pollutant	NFR	Fuel	Base year emissions, g I-TEQ	Year 2024 emissions, g I-TEQ	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1.677	90.7	1000.0	1004.1	37462.921	1012.049	143.4
PCDD/F	1A1a	Gaseous	0.020	0.008	123.7	1000.0	1007.6	0.770	-62.064	0.7
PCDD/F	1A1a	Liquid	0.007	0.005	57.8	1000.0	1001.7	0.306	-33.341	0.4
PCDD/F	1A1a	Other	0.002	0.525	107.0	1000.0	1005.7	3676.880	27434.684	44.9
PCDD/F	1A1a	Peat	0.747	0.214	71.6	1000.0	1002.6	610.391	-71.293	18.3
PCDD/F	1A1a	Solid	0.411	0.040	467.1	1000.0	1103.7	26.357	-90.155	3.8
PCDD/F	1A1b	Biomass		0.000	10.0	1000.0	1000.0	0.001	NA	0.0
PCDD/F	1A1b	Gaseous	0.004	0.001	1.0	1000.0	1000.0	0.021	-70.027	0.1
PCDD/F	1A1b	Liquid	0.019	0.022	4.2	1000.0	1000.0	6.204	13.804	1.8
PCDD/F	1A1b	Solid	0.000	0.000	3.0	1000.0	1000.0	0.000	-89.675	0.0
PCDD/F	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.001	NA	0.0
PCDD/F	1A2a	Gaseous	0.001	0.003	2.0	1000.0	1000.0	0.117	200.355	0.3
PCDD/F	1A2a	Liquid	0.001	0.000	4.4	1000.0	1000.0	0.000	-96.575	0.0
PCDD/F	1A2a	Solid	0.024	0.003	2.2	1000.0	1000.0	0.105	-88.264	0.2
PCDD/F	1A2b	Gaseous		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCDD/F	1A2b	Liquid	0.000	0.000	2.9	1000.0	1000.0	0.003	-6.335	0.0
PCDD/F	1A2b	Solid	0.002	0.001	5.0	1000.0	1000.0	0.010	-52.069	0.1
PCDD/F	1A2c	Biomass	0.012	0.001	209.6	1000.0	1021.7	0.020	-90.083	0.1
PCDD/F	1A2c	Gaseous	0.001	0.001	4.2	1000.0	1000.0	0.026	63.966	0.1
PCDD/F	1A2c	Liquid	0.005	0.004	3.3	1000.0	1000.0	0.181	-20.464	0.3
PCDD/F	1A2c	Other	0.014	0.000	10.0	1000.0	1000.0	0.003	-96.406	0.0
PCDD/F	1A2d	Biomass	0.808	0.858	307.0	1000.0	1046.1	10643.141	6.174	76.4
PCDD/F	1A2d	Gaseous	0.016	0.019	383.4	1000.0	1071.0	5.324	20.858	1.7
PCDD/F	1A2d	Liquid	0.005	0.002	9.3	1000.0	1000.0	0.041	-67.221	0.1

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PCDD/F	1A2d	Other	0.009	0.057	101.3	1000.0	1005.1	42.919	514.740	4.9
PCDD/F	1A2d	Peat	0.149	0.046	174.5	1000.0	1015.1	28.595	-69.328	4.0
PCDD/F	1A2d	Solid	0.045	0.000	9.4	1000.0	1000.0	0.000	-99.569	0.0
PCDD/F	1A2e	Biomass	0.007	0.015	7.8	1000.0	1000.0	2.926	120.069	1.3
PCDD/F	1A2e	Gaseous	0.000	0.000	4.3	1000.0	1000.0	0.003	0.230	0.0
PCDD/F	1A2e	Liquid	0.002	0.000	3.2	1000.0	1000.0	0.001	-85.355	0.0
PCDD/F	1A2e	Peat	0.028	0.012	5.0	1000.0	1000.0	2.062	-54.806	1.1
PCDD/F	1A2e	Solid	0.007	0.000	5.0	1000.0	1000.0	0.000	-98.757	0.0
PCDD/F	1A2f	Biomass	0.000	0.003	7.9	1000.0	1000.0	0.130	4043.459	0.3
PCDD/F	1A2f	Gaseous	0.001	0.000	3.0	1000.0	1000.0	0.003	-53.536	0.0
PCDD/F	1A2f	Liquid	0.002	0.012	456.5	1000.0	1099.3	2.216	628.974	1.1
PCDD/F	1A2f	Other		0.048	499.6	1000.0	1117.8	38.550	NA	4.6
PCDD/F	1A2f	Solid	0.024	0.003	184.3	1000.0	1016.8	0.092	-89.338	0.2
PCDD/F	1A2gviii	Biomass	0.199	0.176	77.9	1000.0	1003.0	412.595	-11.622	15.1
PCDD/F	1A2gviii	Gaseous	0.000	0.000	3.5	1000.0	1000.0	0.001	-21.226	0.0
PCDD/F	1A2gviii	Liquid	0.003	0.001	4.2	1000.0	1000.0	0.003	-80.818	0.0
PCDD/F	1A2gviii	Other	0.192	0.024	405.5	1000.0	1079.1	8.971	-87.445	2.2
PCDD/F	1A2gviii	Peat	0.004	0.005	31.9	1000.0	1000.5	0.345	33.701	0.4
PCDD/F	1A3bi	Diesel oil	0.008	0.243	1.0	1000.0	1000.0	778.861	2991.706	20.7
PCDD/F	1A3bi	Gaseous		0.002	3.0	1000.0	1000.0	0.058	NA	0.2
PCDD/F	1A3bi	Gasoline	0.962	0.172	2.0	1000.0	1000.0	392.364	-82.095	14.7
PCDD/F	1A3bii	Diesel oil	0.004	0.118	1.0	1000.0	1000.0	182.471	2675.247	10.0
PCDD/F	1A3bii	Gasoline	0.024	0.001	2.0	1000.0	1000.0	0.012	-96.108	0.1
PCDD/F	1A3biii	Diesel oil	0.217	0.064	1.0	1000.0	1000.0	54.753	-70.298	5.5
PCDD/F	1A3biii	Gaseous		0.000	3.0	1000.0	1000.0	0.001	NA	0.0

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PCDD/F	1A3biii	Liquid		0.003	2.0	1000.0	1000.0	0.086	NA	0.2
PCDD/F	1A3biv	Diesel oil		0.001	1.0	1000.0	1000.0	0.024	NA	0.1
PCDD/F	1A3biv	Gasoline	0.014	0.012	2.0	1000.0	1000.0	1.892	-15.136	1.0
PCDD/F	1A3dii	Liquid	0.026	0.008	13.8	1000.0	1000.1	0.912	-67.558	0.7
PCDD/F	1A3ei	Gaseous	0.000	0.000	20.0	1000.0	1000.2	0.000	-98.962	0.0
PCDD/F	1A4ai	Biomass	0.041	0.067	20.0	1000.0	1000.2	59.848	65.583	5.7
PCDD/F	1A4ai	Gaseous	0.000	0.000	10.0	1000.0	1000.0	0.001	-24.351	0.0
PCDD/F	1A4ai	Liquid	0.012	0.005	13.0	1000.0	1000.1	0.318	-59.505	0.4
PCDD/F	1A4ai	Peat	0.002	0.002	15.0	1000.0	1000.1	0.040	-17.475	0.1
PCDD/F	1A4bi	Biomass	0.867	0.941	20.0	1000.0	1000.2	11715.773	8.571	80.2
PCDD/F	1A4bi	Gaseous	0.000	0.000	10.0	1000.0	1000.0	0.000	-57.591	0.0
PCDD/F	1A4bi	Liquid	0.019	0.001	13.8	1000.0	1000.1	0.026	-92.683	0.1
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	0.001	15.0	1000.0	1000.1	0.007	-93.385	0.1
PCDD/F	1A4ci	Biomass	0.137	0.108	20.0	1000.0	1000.2	154.714	-20.745	9.2
PCDD/F	1A4ci	Gaseous	0.000	0.000	10.0	1000.0	1000.0	0.000	-96.897	0.0
PCDD/F	1A4ci	Liquid	0.004	0.002	13.1	1000.0	1000.1	0.037	-59.665	0.1
PCDD/F	1A4ci	Peat	0.007	0.029	10.0	1000.0	1000.0	10.872	309.750	2.4
PCDD/F	1A4ciii	Liquid	0.007	0.004	15.0	1000.0	1000.1	0.205	-45.527	0.3
PCDD/F	1A5a	Biomass	0.007	0.380	10.0	1000.0	1000.0	1907.311	5221.849	32.4
PCDD/F	1A5a	Gaseous	0.001	0.005	14.6	1000.0	1000.1	0.275	295.515	0.4
PCDD/F	1A5a	Liquid	0.009	0.006	14.9	1000.0	1000.1	0.421	-40.289	0.5
PCDD/F	1B1b		0.014	0.005	500.0		500.0	0.067	-67.750	0.2
PCDD/F	2A1		0.029	0.015	500.0		500.0	0.743	-49.140	0.6
PCDD/F	2A2		0.038	0.019	30.0	1000.0	1000.4	4.582	-51.119	1.6

Pollutant	NFR	Fuel	Base year emissions, g I-TEQ	Year 2024 emissions, g I-TEQ	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	2A3		0.005	0.000	30.0	1000.0	1000.4	0.002	-93.503	0.0
PCDD/F	2B10a		3.000	0.030	500.0		500.0	2.973	-99.000	1.3
PCDD/F	2C1		4.552	1.107	500.0		500.0	4051.346	-75.671	47.2
PCDD/F	2C3		0.041	0.014	10.0	1000.0	1000.0	2.675	-65.168	1.2
PCDD/F	2C6		0.038	0.066	10.0	1000.0	1000.0	57.374	72.475	5.6
PCDD/F	2C7a		0.001	0.203	11.1	1000.0	1000.1	546.929	22453.406	17.3
PCDD/F	2D3b		0.016	0.006	30.0	1000.0	1000.4	0.459	-62.576	0.5
PCDD/F	2G		0.001	0.000	35.0	100.0	105.9	0.000	-57.051	0.0
PCDD/F	2L		0.029	0.005	60.0	1000.0	1001.8	0.301	-83.847	0.4
PCDD/F	5C1bv		0.000	0.001	10.0	900.0	900.1	0.011	398.645	0.1
PCDD/F	5E		3.498	1.265	35.0	1000.0	1000.6	21168.785	-63.838	107.8
Total			16.604	8.699			306.7		-47.608	227.3

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.260	106.7	1000.0	1005.7	201.324	1259.566	20.3
PAH-4	1A1a	Liquid	0.050	0.021	101.0	1000.0	1005.1	1.278	-58.698	1.6
PAH-4	1A1a	Other	0.000	0.230	347.8	1000.0	1058.8	174.599	198795.983	18.9
PAH-4	1A1a	Peat	0.043	0.014	91.2	1000.0	1004.2	0.587	-67.108	1.1
PAH-4	1A1a	Solid	0.001	0.000	462.5	1000.0	1101.8	0.000	-89.992	0.0
PAH-4	1A1b	Liquid	0.006	0.000	4.9	1000.0	1000.0	0.000	-97.640	0.0
PAH-4	1A1b	Solid	0.000	0.000	3.0	1000.0	1000.0	0.000	-89.675	0.0
PAH-4	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1A2a	Liquid	0.005	0.000	5.0	1000.0	1000.0	0.000	-97.383	0.0
PAH-4	1A2a	Solid	0.000	0.000	3.0	1000.0	1000.0	0.000	-97.824	0.0
PAH-4	1A2b	Liquid	0.003	0.002	3.5	1000.0	1000.0	0.008	-38.806	0.1
PAH-4	1A2b	Solid	0.000	0.000	4.9	1000.0	1000.0	0.000	-88.098	0.0
PAH-4	1A2c	Biomass	0.002	0.001	73.2	1000.0	1002.7	0.001	-75.062	0.0
PAH-4	1A2c	Liquid	0.009	0.003	4.7	1000.0	1000.0	0.028	-66.054	0.2
PAH-4	1A2c	Other	0.001	0.000	10.0	1000.0	1000.0	0.000	-90.261	0.0
PAH-4	1A2d	Biomass	0.105	0.079	84.1	1000.0	1003.5	18.781	-24.598	6.2
PAH-4	1A2d	Liquid	0.037	0.011	6.5	1000.0	1000.0	0.334	-71.290	0.8
PAH-4	1A2d	Other	0.001	0.007	10.0	1000.0	1000.0	0.140	1131.688	0.5
PAH-4	1A2d	Peat	0.009	0.002	4.7	1000.0	1000.0	0.013	-75.550	0.2
PAH-4	1A2d	Solid	0.000	0.000	5.0	1000.0	1000.0	0.000	-99.561	0.0
PAH-4	1A2e	Biomass	0.001	0.002	8.1	1000.0	1000.0	0.012	129.289	0.2
PAH-4	1A2e	Liquid	0.010	0.001	3.6	1000.0	1000.0	0.001	-94.279	0.0
PAH-4	1A2e	Peat	0.002	0.001	5.0	1000.0	1000.0	0.002	-54.806	0.1
PAH-4	1A2e	Solid	0.000	0.000	5.0	1000.0	1000.0	0.000	-98.757	0.0
PAH-4	1A2f	Biomass	0.000	0.000	10.0	1000.0	1000.0	0.000	3999.025	0.0
PAH-4	1A2f	Liquid	0.008	0.005	2.9	1000.0	1000.0	0.078	-37.107	0.4
PAH-4	1A2f	Other		0.003	10.0	1000.0	1000.0	0.024	NA	0.2
PAH-4	1A2f	Solid	0.000	0.000	5.0	1000.0	1000.0	0.000	-93.154	0.0
PAH-4	1A2gvii	Liquid	0.024	0.029	4.9	1000.0	1000.0	2.504	22.995	2.3
PAH-4	1A2gviii	Biomass	0.027	0.029	157.8	1000.0	1012.4	2.633	11.095	2.3
PAH-4	1A2gviii	Liquid	0.015	0.002	10.2	1000.0	1000.1	0.013	-86.023	0.2
PAH-4	1A2gviii	Other	0.017	0.187	11.6	1000.0	1000.1	103.251	1003.982	14.5
PAH-4	1A2gviii	Peat	0.000	0.000	51.8	1000.0	1001.3	0.000	82.598	0.0
PAH-4	1A3bi	Diesel oil	0.041	0.086	1.0	1000.0	1000.0	21.995	108.385	6.7
PAH-4	1A3bi	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
PAH-4	1A3bi	Gasoline	0.046	0.029	2.0	1000.0	1000.0	2.557	-35.368	2.3
PAH-4	1A3bii	Diesel oil	0.024	0.037	1.0	1000.0	1000.0	4.098	54.049	2.9
PAH-4	1A3bii	Gasoline	0.001	0.000	2.0	1000.0	1000.0	0.000	-92.247	0.0
PAH-4	1A3biii	Diesel oil	0.053	0.046	1.0	1000.0	1000.0	6.253	-13.744	3.6
PAH-4	1A3biii	Gaseous		0.001	3.0	1000.0	1000.0	0.002	NA	0.1
PAH-4	1A3biii	Liquid		0.001	2.0	1000.0	1000.0	0.001	NA	0.0
PAH-4	1A3biv	Diesel oil		0.000	1.0	1000.0	1000.0	0.000	NA	0.0
PAH-4	1A3biv	Gasoline	0.001	0.001	2.0	1000.0	1000.0	0.004	116.980	0.1
PAH-4	1A3c	Liquid	0.005	0.001	2.0	1000.0	1000.0	0.004	-74.920	0.1
PAH-4	1A3dii	Liquid	0.004	0.002	12.2	1000.0	1000.1	0.007	-58.758	0.1

Pollutant	NFR	Fuel	Base year emissions, t	Year 2024 emissions, t	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	1A4ai	Biomass	0.001	0.002	20.0	200.0	201.0	0.000	57.038	0.0
PAH-4	1A4ai	Liquid	0.074	0.028	13.0	1000.0	1000.1	2.367	-61.604	2.2
PAH-4	1A4ai	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	-17.475	0.0
PAH-4	1A4aai	Liquid	0.011	0.007	12.8	1000.0	1000.1	0.162	-30.755	0.6
PAH-4	1A4bi	Biomass	17.153	17.140	20.0	200.0	201.0	35061.284	-0.074	268.1
PAH-4	1A4bi	Liquid	0.109	0.007	15.0	1000.0	1000.1	0.151	-93.432	0.6
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	-93.385	0.0
PAH-4	1A4bii	Liquid	0.004	0.004	11.3	1000.0	1000.1	0.052	18.869	0.3
PAH-4	1A4ci	Biomass	0.003	0.003	20.0	200.0	201.0	0.001	-13.896	0.0
PAH-4	1A4ci	Liquid	0.025	0.009	14.0	1000.0	1000.1	0.227	-64.755	0.7
PAH-4	1A4ci	Peat	0.000	0.002	10.0	1000.0	1000.0	0.008	309.750	0.1
PAH-4	1A4cii	Liquid	0.023	0.019	14.6	1000.0	1000.1	1.019	-20.851	1.4
PAH-4	1A4ciii	Liquid	0.001	0.001	15.0	1000.0	1000.1	0.001	-45.527	0.1
PAH-4	1A5a	Biomass	0.001	0.049	10.0	1000.0	1000.0	7.048	5221.849	3.8
PAH-4	1A5a	Liquid	0.045	0.012	22.4	1000.0	1000.3	0.401	-74.181	0.9
PAH-4	1B1b		0.000	0.006	500.0		500.0	0.024	3376.950	0.2
PAH-4	2A1		0.000	0.000	500.0		500.0	0.000	-19.322	0.0
PAH-4	2C1		0.132	0.005	10.0	1000.0	1000.0	0.067	-96.397	0.4
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	0.047	-46.492	0.3
PAH-4	2G		0.002	0.001	35.0	100.0	105.9	0.000	-57.051	0.0
PAH-4	5C1bv		0.000	0.001	10.0	900.0	900.1	0.004	398.645	0.1
PAH-4			18.176	18.399			188.7		1.229	270.2

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2024 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.480	4.9	1000.0	1000.0	445.073	1214.632	19.1

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2024 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	Other		0.001	10.0	1000.0	1000.0	0.003	NA	0.1
HCB	1A1a	Solid	0.001	0.000	1.0	1000.0	1000.0	0.000	-88.754	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	-88.949	0.0
HCB	1A2b	Solid	0.002	0.000	4.9	1000.0	1000.0	0.000	-93.220	0.0
HCB	1A2c	Biomass	0.003	0.000	9.8	1000.0	1000.0	0.000	-94.810	0.0
HCB	1A2d	Biomass	0.191	0.121	4.6	1000.0	1000.0	28.312	-36.761	4.8
HCB	1A2d	Other		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A2d	Solid	0.007	0.000	5.0	1000.0	1000.0	0.000	-99.561	0.0
HCB	1A2e	Biomass	0.002	0.003	8.1	1000.0	1000.0	0.022	113.005	0.1
HCB	1A2e	Solid	0.001	0.000	5.0	1000.0	1000.0	0.000	-98.757	0.0
HCB	1A2f	Biomass	0.000	0.001	10.0	1000.0	1000.0	0.001	3999.028	0.0
HCB	1A2f	Solid	0.004	0.000	5.0	1000.0	1000.0	0.000	-93.154	0.0
HCB	1A2gviii	Biomass	0.049	0.051	9.4	1000.0	1000.0	5.091	4.729	2.0
HCB	1A2gviii		0.143	0.076	30.0	900.0	900.5	9.073	-46.826	2.7
HCB	1A2gviii	Other		0.001	10.0	1000.0	1000.0	0.002	NA	0.0
HCB	1A3bi	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-50.050	0.0
HCB	1A3bi	Gaseous	0.000	0.000	3.0	1000.0	1000.0	0.000	605.669	0.0
HCB	1A3bi	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-19.560	0.0
HCB	1A3bii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-16.952	0.0
HCB	1A3bii	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-9.423	0.0
HCB	1A3biii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-53.601	0.0
HCB	1A3biii	Gaseous	0.000	0.000	3.0	1000.0	1000.0	0.000	201.835	0.0
HCB	1A3biii	Liquid		0.000	2.0	1000.0	1000.0	0.000	NA	0.0
HCB	1A3biv	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-12.057	0.0
HCB	1A3biv	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	150.128	0.0
HCB	1A3dii	Liquid	0.010	0.004	13.8	1000.0	1000.1	0.038	-55.716	0.2
HCB	1A4ai	Biomass	0.010	0.016	20.0	1000.0	1000.2	0.496	67.749	0.6
HCB	1A4bi	Biomass	0.206	0.224	20.0	1000.0	1000.2	97.087	8.571	8.9
HCB	1A4ci	Biomass	0.033	0.025	20.0	1000.0	1000.2	1.226	-22.508	1.0
HCB	1A4ciii	Liquid	0.004	0.002	15.0	1000.0	1000.1	0.011	-45.527	0.1
HCB	1A5a	Biomass		0.018	10.0	1000.0	1000.0	0.632	NA	0.7
HCB	1A5a	Liquid	0.001	0.001	30.0	1000.0	1000.4	0.001	15.651	0.0
HCB	2B10a		29.000	15.700	50.0		50.0	1190.331	-45.862	31.3
HCB	2C1		0.096	0.013	10.0	900.0	900.1	0.248	-86.846	0.5
HCB	2C3		0.033	0.011	10.0	1000.0	1000.0	0.250	-65.168	0.5
HCB	2C7a		5.514	5.968	10.0	1000.0	1000.0	68807.779	8.226	238.0

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2024 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
HCB	2D3i		0.004	0.002	40.0	1000.0	1000.8	0.007	-58.132	0.1
HCB	3Df		0.057	0.026	10.0	1000.0	1000.0	1.265	-55.316	1.0
HCB	5C1bv		0.001	0.006	10.0	900.0	900.1	0.051	398.645	0.2
Total			35.471	22.753			265.7		-35.855	241.0

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2024 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 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	0.336	4.9	1000.0	1000.0	582.978	1214.632	18.6
PCB	1A1a	Other		0.001	10.0	1000.0	1000.0	0.004	NA	0.1
PCB	1A1a	Solid	0.000	0.000	1.0	1000.0	1000.0	0.000	-88.754	0.0
PCB	1A2a	Biomass		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A2a	Solid	0.784	0.087	3.0	1000.0	1000.0	38.775	-88.949	4.8
PCB	1A2b	Solid	0.551	0.037	4.9	1000.0	1000.0	7.196	-93.220	2.1
PCB	1A2c	Biomass	0.000	0.000	9.8	1000.0	1000.0	0.000	-94.810	0.0
PCB	1A2d	Biomass	0.002	0.001	4.6	1000.0	1000.0	0.011	-36.761	0.1
PCB	1A2d	Other		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A2d	Solid	1.907	0.008	5.0	1000.0	1000.0	0.361	-99.561	0.5
PCB	1A2e	Biomass	0.000	0.000	8.1	1000.0	1000.0	0.000	113.005	0.0
PCB	1A2e	Solid	0.298	0.004	5.0	1000.0	1000.0	0.071	-98.757	0.2
PCB	1A2f	Biomass	0.000	0.000	10.0	1000.0	1000.0	0.000	3999.028	0.0
PCB	1A2f	Solid	1.037	0.071	5.0	1000.0	1000.0	26.011	-93.154	3.9
PCB	1A2gviii	Biomass	0.001	0.001	9.4	1000.0	1000.0	0.002	4.729	0.0
PCB	1A2gviii		0.135	0.016	30.0	900.0	900.5	1.052	-88.247	0.8
PCB	1A2gviii	Other		0.000	10.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A3bi	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	520.131	0.0
PCB	1A3bi	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A3bi	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-82.351	0.0
PCB	1A3bii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	458.639	0.0

Pollutant	NFR	Fuel	Base year emissions, kg	Year 2024 emissions, kg	Activity data uncertainty, %	Emission factor uncertainty, %	Combined uncertainty, %	Contribution to variance in year 2024, fraction	Inventory trend in national emissions for year 2024 increase with respect to base year, % of base year	Uncertainty introduced into the trend in total national emissions with respect to base year, %
PCB	1A3bii	Gasoline	0.000	0.000	2.0	1000.0	1000.0	0.000	-98.112	0.0
PCB	1A3biii	Diesel oil	0.000	0.000	1.0	1000.0	1000.0	0.000	-73.477	0.0
PCB	1A3biii	Gaseous		0.000	3.0	1000.0	1000.0	0.000	NA	0.0
PCB	1A3biii	Liquid		0.000	2.0	1000.0	1000.0	0.000	NA	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	-71.248	0.0
PCB	1A3dii	Liquid	0.024	0.004	13.8	1000.0	1000.1	0.097	-81.948	0.2
PCB	1A4ai	Biomass	0.000	0.000	20.0	1000.0	1000.2	0.000	67.749	0.0
PCB	1A4ai	Liquid	0.002	0.001	13.0	1000.0	1000.1	0.004	-59.269	0.0
PCB	1A4ai	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	4.022	0.0
PCB	1A4bi	Biomass	0.002	0.003	20.0	1000.0	1000.2	0.037	8.571	0.1
PCB	1A4bi	Liquid	0.003	0.000	15.0	1000.0	1000.1	0.000	-93.444	0.0
PCB	1A4bi	Peat	0.000	0.000	15.0	1000.0	1000.1	0.000	-93.385	0.0
PCB	1A4ci	Biomass	0.000	0.000	20.0	1000.0	1000.2	0.000	-22.508	0.0
PCB	1A4ci	Liquid	0.001	0.000	14.0	1000.0	1000.1	0.000	-89.869	0.0
PCB	1A4ci	Peat	0.000	0.000	10.0	1000.0	1000.0	0.000	291.185	0.0
PCB	1A4ciii	Liquid	0.002	0.001	15.0	1000.0	1000.1	0.007	-45.527	0.1
PCB	1B1b		1.753	2.826	10.0	1000.0	1000.0	41237.300	61.182	156.2
PCB	2A1		3.298	1.788	10.0	1000.0	1000.0	16505.173	-45.800	98.8
PCB	2A2		0.000	0.000	30.0	1000.0	1000.4	0.000	-51.119	0.0
PCB	2C1		13.464	8.672	164.3	100.0	192.4	14371.310	-35.594	92.2
PCB	2C3		0.083	0.038	10.0	1000.0	1000.0	7.641	-53.716	2.1
PCB	2C7a		0.001	0.000	10.0	67.0	67.7	0.000	-44.009	0.0
PCB	2C7c		0.002	0.004	30.0	1000.0	1000.4	0.100	150.608	0.2
PCB	5C1bv		0.003	0.016	10.0	900.0	900.1	1.012	398.645	0.8
Total			25.579	13.916			269.8		-45.594	207.6

Annex 7

(Updated March 2026, TF)

According to the EMEP/EEA emission inventory guidebook 2023, "a key category is one that is prioritised within the national inventory system because it is significantly important for one or a number of air pollutants in a country's national inventory of air pollutants in terms of the absolute level, the trend, or the uncertainty in emissions".

The results of the key category analysis are used in prioritizing the inventory improvements. For the Finnish 2026 submission inventory, the Approach 1 methodology presented in the EMEP/EEA emission inventory guidebook 2023, including the level and the trend assessment, has been used to identify key categories for each pollutant. Key source categories are sources that together contribute with either 80 % of the level or 80 % of the overall trend of reported emissions.

The combined results of the level and trend analysis for the 2026 submission are presented below.

NOx

NFR Code	Fuel	Pollutant	Identification criteria
1A2gvii	Liquid	NOx	L1
1A2a	Solid	NOx	L1
1A5a	Liquid	NOx	L1
1A1a	Peat	NOx	L1
1A4ciii	Liquid	NOx	L1
1A2c	Liquid	NOx	L1
1A2a	Gaseous	NOx	L1
1A2d	Biomass	NOx	L1, T1
1A1a	Biomass	NOx	L1, T1
1A3bi	Diesel oil	NOx	L1, T1
1A3biii	Diesel oil	NOx	L1, T1
3Da1		NOx	L1, T1
1A3bii	Diesel oil	NOx	L1, T1
1A3dii	Liquid	NOx	L1, T1
1A4bi	Biomass	NOx	L1, T1
3Da2a		NOx	L1, T1
1A3bi	Gasoline	NOx	L1, T1
1A5a	Biomass	NOx	L1, T1
1A1a	Other	NOx	L1, T1
1A4cii	Liquid	NOx	L1, T1
1A1a	Solid	NOx	T1
1A1a	Gaseous	NOx	T1

NMVOC

NFR Code	Fuel	Pollutant	Identification criteria
1B2av		NMVOC	L1
1A3dii	Liquid	NMVOC	L1
3Da2a		NMVOC	L1

NFR Code	Fuel	Pollutant	Identification criteria
2B10a		NMVOC	L1
1A4bii	Liquid	NMVOC	L1
2D3g		NMVOC	L1
1B2aiv		NMVOC	L1
1A4bi	Biomass	NMVOC	L1, T1
2D3a		NMVOC	L1, T1
3B1a		NMVOC	L1, T1
2D3d		NMVOC	L1, T1
3B1b		NMVOC	L1, T1
1A3bv		NMVOC	L1, T1
2H2		NMVOC	L1, T1
1A3bi	Gasoline	NMVOC	L1, T1
1A1a	Biomass	NMVOC	L1, T1
2D3h		NMVOC	T1
1A3biii	Diesel oil	NMVOC	T1
2D3c		NMVOC	T1
1A4aii	Liquid	NMVOC	T1

SOx

NFR Code	Fuel	Pollutant	Identification criteria
1A1b	Liquid	SOx	L1
2B10a		SOx	L1
1A2a	Solid	SOx	L1
1A1a	Solid	SOx	L1, T1
1A2b	Solid	SOx	L1, T1
1A1a	Peat	SOx	L1, T1
1A4ai	Liquid	SOx	L1, T1
1A2c	Liquid	SOx	L1, T1
1A2b	Liquid	SOx	L1, T1
2C1		SOx	L1, T1
1A1a	Biomass	SOx	L1, T1
1A2d	Biomass	SOx	L1, T1
2H1		SOx	L1, T1
1B1b		SOx	L1, T1
1A5a	Biomass	SOx	L1, T1
1A2d	Liquid	SOx	T1
1A1a	Liquid	SOx	T1
1A2d	Solid	SOx	T1
1A2gviii	Liquid	SOx	T1
1A4ci	Peat	SOx	T1
1A2d	Peat	SOx	T1

NH3

NFR Code	Fuel	Pollutant	Identification criteria
3Da2a		NH3	L1, T1
3B1a		NH3	L1, T1
3B1b		NH3	L1, T1
3Da1		NH3	L1, T1
3B3		NH3	L1, T1
3Da3		NH3	L1, T1
1A4bi	Biomass	NH3	L1, T1
1A3bi	Gasoline	NH3	L1, T1
3B4h		NH3	T1
3B4gii		NH3	T1
3Da2c		NH3	T1
6A		NH3	T1

PM2.5

NFR Code	Fuel	Pollutant	Identification criteria
1A3dii	Liquid	PM2.5	L1
3Dc		PM2.5	L1
1A3bii	Diesel oil	PM2.5	L1
2B10a		PM2.5	L1
1A5a	Biomass	PM2.5	L1
1A4bi	Biomass	PM2.5	L1, T1
1A3bvi		PM2.5	L1, T1
1A2d	Biomass	PM2.5	L1, T1
1A3bvii		PM2.5	L1, T1
2H2		PM2.5	L1, T1
2C1		PM2.5	L1, T1
1A3biii	Diesel oil	PM2.5	T1
1A3bi	Diesel oil	PM2.5	T1
2H1		PM2.5	T1
1A4cii	Liquid	PM2.5	T1
1A1a	Solid	PM2.5	T1
1A2gvii	Liquid	PM2.5	T1

PM10

NFR Code	Fuel	Pollutant	Identification criteria
2H2		PM10	L1
2B10a		PM10	L1
1A4bi	Biomass	PM10	L1, T1
1A3bvii		PM10	L1, T1
3Dc		PM10	L1, T1
1A3bvi		PM10	L1, T1
1A2d	Biomass	PM10	L1, T1
1A5a	Biomass	PM10	L1, T1

NFR Code	Fuel	Pollutant	Identification criteria
1A1a	Solid	PM10	T1
1A3biii	Diesel oil	PM10	T1
2C1		PM10	T1
1A3bi	Diesel oil	PM10	T1
2H1		PM10	T1
1A4cii	Liquid	PM10	T1
1A1a	Liquid	PM10	T1
1A2f	Solid	PM10	T1

TSP

NFR Code	Fuel	Pollutant	Identification criteria
1A1a	Peat	TSP	L1
3B4gi		TSP	L1
1A1a	Biomass	TSP	L1
1A3bvii		TSP	L1, T1
1A4bi	Biomass	TSP	L1, T1
3Dc		TSP	L1, T1
1A5a	Biomass	TSP	L1, T1
1A3bvi		TSP	L1, T1
1A2d	Biomass	TSP	L1, T1
1A1a	Solid	TSP	T1
2C1		TSP	T1
1A3biii	Diesel oil	TSP	T1
2H1		TSP	T1
1A2f	Solid	TSP	T1
1A3bi	Diesel oil	TSP	T1
1A4ci	Peat	TSP	T1
1B1c		TSP	T1
1A2d	Liquid	TSP	T1
1A4cii	Liquid	TSP	T1

BC

NFR Code	Fuel	Pollutant	Identification criteria
1A3bii	Diesel oil	BC	L1
1A4bi	Biomass	BC	L1, T1
1A3bvi		BC	L1, T1
1A3bi	Diesel oil	BC	L1, T1
1A2gvii	Liquid	BC	L1, T1
1A3biii	Diesel oil	BC	T1
1A4cii	Liquid	BC	T1

CO

NFR Code	Fuel	Pollutant	Identification criteria
1A4aii	Liquid	CO	L1
1A4bi	Biomass	CO	L1, T1
1A4bii	Liquid	CO	L1, T1
1A3bi	Gasoline	CO	L1, T1
1A3dii	Liquid	CO	L1, T1
1A1a	Biomass	CO	L1, T1

Pb

NFR Code	Fuel	Pollutant	Identification criteria
1A1a	Peat	Pb	L1
1A1a	Biomass	Pb	L1
1A3bvi		Pb	L1
1A4bi	Biomass	Pb	L1
1A1b	Liquid	Pb	L1, T1
1A2d	Biomass	Pb	L1, T1
2G		Pb	L1, T1
1A5a	Biomass	Pb	L1, T1
1A3bi	Gasoline	Pb	T1
2C7c		Pb	T1
2C1		Pb	T1

Cd

NFR Code	Fuel	Pollutant	Identification criteria
2G		Cd	L1
1A1a	Other	Cd	L1
1A2d	Biomass	Cd	L1, T1
1A4bi	Biomass	Cd	L1, T1
1A1a	Biomass	Cd	L1, T1
1A5a	Biomass	Cd	L1, T1
1A1b	Liquid	Cd	L1, T1
2C7c		Cd	L1, T1
2C6		Cd	T1

Hg

NFR Code	Fuel	Pollutant	Identification criteria
1A1b	Liquid	Hg	L1
1A3bi	Gasoline	Hg	L1
1A2d	Biomass	Hg	L1, T1
1A1a	Biomass	Hg	L1, T1
2C1		Hg	L1, T1

NFR Code	Fuel	Pollutant	Identification criteria
2B10a		Hg	L1, T1
1A1a	Peat	Hg	L1, T1
5C1bv		Hg	L1, T1
1A4bi	Biomass	Hg	L1, T1
1A2f	Liquid	Hg	L1, T1
1A2gviii	Other	Hg	T1
1A1a	Solid	Hg	T1

As

NFR Code	Fuel	Pollutant	Identification criteria
1A4bi	Biomass	As	L1
1A1b	Liquid	As	L1, T1
1A1a	Peat	As	L1, T1
2C7c		As	L1, T1
1A4ci	Peat	As	L1, T1
1A2d	Biomass	As	L1, T1

Cr

NFR Code	Fuel	Pollutant	Identification criteria
1A1a	Peat	Cr	L1
2C2		Cr	L1
1A1b	Liquid	Cr	L1, T1
2C1		Cr	L1, T1
1A4bi	Biomass	Cr	L1, T1
1A3bvi		Cr	L1, T1
1A5a	Biomass	Cr	L1, T1
1A1a	Solid	Cr	T1
1A2f	Solid		T1
1A1a	Biomass	Cr	T1
1A2e	Solid	Cr	T1

Cu

NFR Code	Fuel	Pollutant	Identification criteria
1A3bi	Diesel oil	Cu	L1
1A1b	Liquid	Cu	L1
1A1a	Peat	Cu	L1
1A3bvi		Cu	L1, T1
1A3bi	Gasoline	Cu	L1, T1
2C7c		Cu	T1
1A1a	Solid	Cu	T1

NFR Code	Fuel	Pollutant	Identification criteria
2C7a		Cu	T1

Ni

NFR Code	Fuel	Pollutant	Identification criteria
1A1a	Liquid	Ni	L1
1A4ai	Liquid	Ni	L1
1A5a	Liquid	Ni	L1
1A2f	Solid	Ni	L1
1A2c	Liquid	Ni	L1
1A2d	Biomass	Ni	L1
1A4bi	Biomass	Ni	L1, T1
2C7c		Ni	L1, T1
2C7b		Ni	L1, T1
2C1		Ni	L1, T1
1A1a	Peat	Ni	L1, T1
1A5a	Biomass	Ni	L1, T1
1A1a	Biomass	Ni	L1, T1
1A4ci	Peat	Ni	L1, T1
1A1a	Solid	Ni	T1
1A1b	Liquid	Ni	T1
1A2d	Liquid	Ni	T1
1A3bvi		Ni	T1
1A2e	Solid	Ni	T1
1A2gviii	Liquid	Ni	T1
1A1a	Other	Ni	T1

Se

NFR Code	Fuel	Pollutant	Identification criteria
1A3bvi		Se	L1
1A4ci	Biomass	Se	L1
1A4ai	Biomass	Se	L1
1A4bi	Biomass	Se	L1, T1
2C7c		Se	T1

Zn

NFR Code	Fuel	Pollutant	Identification criteria
1A1b	Liquid	Zn	L1
1A1a	Other	Zn	L1
1A4ci	Biomass	Zn	L1
1A4bi	Biomass	Zn	L1, T1

NFR Code	Fuel	Pollutant	Identification criteria
1A3bvi		Zn	L1, T1
1A5a	Biomass	Zn	L1, T1
1A1a	Biomass	Zn	L1, T1
2C6		Zn	L1, T1
2C1		Zn	T1
2C7c		Zn	T1

PAH-4

NFR Code	Fuel	Pollutant	Identification criteria
1A4bi	Biomass	PAH-4	L1, T1
1A1a	Biomass	PAH-4	T1
1A1a	Other	PAH-4	T1
1A2gviii	Other	PAH-4	T1
2C1		PAH-4	T1
1A4bi	Liquid	PAH-4	T1
1A5a	Biomass	PAH-4	T1
1A4ai	Liquid	PAH-4	T1
1A3bi	Diesel oil	PAH-4	T1
1A5a	Liquid	PAH-4	T1

HCB

NFR Code	Fuel	Pollutant	Identification criteria
2B10a		HCB	L1, T1
2C7a		HCB	L1, T1

PCB

NFR Code	Fuel	Pollutant	Identification criteria
2C1		PCB	L1, T1
1B1b		PCB	L1, T1
1A2d	Solid	PCB	T1
1A2f	Solid	PCB	T1
1A2a	Solid	PCB	T1

Level and Trend Key Category Analysis to the 2026 Submission

Level analysis

The key category assessment by level for the 2026 submission is presented below.

NO_x

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Biomass	12.059	12.059	Yes	1A2f	Solid	0.165	97.762	
1A1a	Biomass	8.401	20.460	Yes	1A1b	Gaseous	0.165	97.927	
1A3bi	Diesel oil	7.707	28.167	Yes	1A2c	Gaseous	0.145	98.072	
1A3biii	Diesel oil	7.223	35.390	Yes	1A3biv	Gasoline	0.141	98.213	
3Da1		6.129	41.519	Yes	1A3aii(i)	Liquid	0.140	98.354	
1A3bii	Diesel oil	5.984	47.503	Yes	1A2e	Peat	0.140	98.494	
1A3dii	Liquid	4.410	51.913	Yes	2B10a		0.116	98.610	
1A2gvii	Liquid	4.240	56.153	Yes	1A2gviii	Gaseous	0.115	98.724	
1A4bi	Biomass	3.897	60.050	Yes	3B4gii		0.112	98.837	
3Da2a		2.853	62.903	Yes	1A2e	Biomass	0.112	98.949	
1A3bi	Gasoline	2.409	65.312	Yes	3Da2b		0.112	99.061	
1A2a	Solid	2.141	67.452	Yes	1A2b	Liquid	0.083	99.144	
1A5a	Liquid	2.118	69.570	Yes	1A3biii	Gaseous	0.074	99.217	
1A1a	Peat	1.973	71.542	Yes	1A2a	Liquid	0.068	99.286	
1A5a	Biomass	1.966	73.508	Yes	1A3dii	Gaseous	0.066	99.351	
1A1a	Other	1.886	75.395	Yes	1A2f	Gaseous	0.065	99.417	
1A4ciii	Liquid	1.644	77.038	Yes	1A2c	Biomass	0.063	99.480	
1A4cii	Liquid	1.605	78.643	Yes	3B4gi		0.058	99.538	
1A2c	Liquid	1.132	79.776	Yes	1A3bii	Gasoline	0.056	99.594	
1A2a	Gaseous	1.091	80.867	Yes	1A2gviii	Peat	0.047	99.641	
1A2gviii	Biomass	1.015	81.882		1A2e	Liquid	0.043	99.685	
1A1b	Liquid	0.995	82.877		3B1a		0.039	99.724	
1A3c	Liquid	0.978	83.855		1A2e	Gaseous	0.034	99.758	
1A4aii	Liquid	0.950	84.806		1A1b	Biomass	0.031	99.789	
1A4bii	Liquid	0.943	85.749		1A4ai	Gaseous	0.029	99.818	
1A2f	Liquid	0.939	86.688		1A2b	Solid	0.019	99.837	
1A1a	Solid	0.926	87.615		3B4e		0.019	99.856	
1A1a	Liquid	0.913	88.527		1A2f	Biomass	0.018	99.874	
1A4ai	Liquid	0.896	89.423		1A3biv	Diesel oil	0.018	99.892	
1A2d	Gaseous	0.870	90.293		1A4bi	Gaseous	0.014	99.906	
1A3ai(i)	Liquid	0.792	91.086		3B4h		0.014	99.919	
1A1a	Gaseous	0.697	91.783		1A4ai	Peat	0.013	99.933	
1A2gviii	Other	0.683	92.465		3B4giii		0.011	99.943	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Liquid	0.576	93.041		3B2		0.008	99.951	
1A5a	Gaseous	0.496	93.537		2G		0.008	99.959	
1A4ci	Biomass	0.477	94.014		1A3bi	Gaseous	0.007	99.966	
3Da3		0.444	94.457		3B3		0.007	99.973	
1A2f	Other	0.393	94.850		1A2d	Solid	0.006	99.979	
3Da2c		0.308	95.158		1A2c	Other	0.006	99.985	
1A2d	Peat	0.306	95.464		1A4bi	Peat	0.005	99.990	
1A2d	Other	0.297	95.762		3B4giv		0.003	99.993	
1A4ci	Liquid	0.288	96.050		1A2a	Biomass	0.003	99.996	
1A4ai	Biomass	0.279	96.328		1A1b	Solid	0.002	99.998	
2B2		0.257	96.585		1A4ci	Gaseous	0.001	99.999	
1A4bi	Liquid	0.237	96.822		3B4d		0.000	100.000	
3B1b		0.205	97.027		1A2e	Solid	0.000	100.000	
1A3biii	Liquid	0.197	97.224		1A4bi	Other	0.000	100.000	
1A4ci	Peat	0.190	97.414		1A2b	Gaseous	0.000	100.000	
1A2gviii	Liquid	0.183	97.597		1A3ei	Gaseous	0.000	100.000	

NMVOC

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	23.786	23.786	Yes	1A3dii	Gaseous	0.036	99.407	
2D3a		8.125	31.912	Yes	2B10b		0.036	99.443	
3B1a		7.882	39.794	Yes	1A1b	Liquid	0.034	99.477	
2D3d		6.452	46.246	Yes	1A3biv	Diesel oil	0.034	99.511	
3B1b		5.186	51.433	Yes	2C7b		0.032	99.544	
1A3bv		3.679	55.111	Yes	2A1		0.027	99.570	
1B2av		3.572	58.684	Yes	1A1a	Liquid	0.026	99.597	
2H2		3.109	61.793	Yes	2G		0.025	99.622	
1A3dii	Liquid	3.094	64.887	Yes	1A4ci	Biomass	0.024	99.646	
3Da2a		3.018	67.905	Yes	1A3aii(i)	Liquid	0.024	99.670	
2B10a		2.787	70.692	Yes	1A4ci	Liquid	0.023	99.693	
1A4bii	Liquid	2.247	72.939	Yes	1A4ai	Peat	0.022	99.714	
2D3g		1.989	74.928	Yes	3B4giv		0.021	99.735	
1B2aiv		1.980	76.908	Yes	1A1a	Solid	0.020	99.756	
1A3bi	Gasoline	1.895	78.803	Yes	1A2d	Other	0.020	99.775	
1A1a	Biomass	1.800	80.603	Yes	1A4bi	Liquid	0.019	99.795	
2D3i		1.778	82.381		5D2		0.018	99.813	
2I		1.502	83.884		1A2a	Solid	0.014	99.827	
2H1		1.414	85.297		1A4ai	Biomass	0.013	99.840	
1A4cii	Liquid	1.382	86.679		1A2d	Gaseous	0.012	99.852	
3De		1.278	87.957		1A2e	Biomass	0.012	99.863	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
3B4gii		1.181	89.138		1A4bi	Peat	0.012	99.875	
1A2gvii	Liquid	1.163	90.300		1A2f	Other	0.011	99.887	
2D3e		0.896	91.197		5D1		0.011	99.898	
1A3biv	Gasoline	0.673	91.870		2A3		0.010	99.907	
1A4aii	Liquid	0.526	92.396		1A2c	Gaseous	0.009	99.916	
1A2d	Biomass	0.481	92.877		1A2d	Peat	0.008	99.924	
2D3h		0.476	93.353		1A2f	Biomass	0.008	99.932	
1A4ci	Peat	0.427	93.780		1A2d	Liquid	0.006	99.938	
3B4h		0.407	94.187		1A2e	Peat	0.006	99.944	
1A3bii	Diesel oil	0.388	94.575		1A3biii	Gaseous	0.006	99.950	
1A1a	Other	0.376	94.950		1A2gviii	Peat	0.006	99.956	
3B4gi		0.356	95.306		3B4d		0.005	99.961	
3B3		0.324	95.631		1A2a	Gaseous	0.005	99.967	
1A3biii	Diesel oil	0.317	95.947		1A3bi	Gaseous	0.005	99.972	
3B4e		0.304	96.251		1A2f	Liquid	0.003	99.975	
1A5a	Biomass	0.245	96.496		1A4ai	Gaseous	0.003	99.978	
1B2b		0.245	96.741		1A1b	Gaseous	0.003	99.981	
2C1		0.238	96.978		2C2		0.002	99.984	
2D3b		0.229	97.207		2C7c		0.002	99.986	
1A2gviii	Biomass	0.219	97.426		1A2c	Liquid	0.002	99.987	
1A3bi	Diesel oil	0.193	97.619		1A4bi	Gaseous	0.002	99.989	
1A5a	Liquid	0.178	97.797		2C3		0.001	99.991	
3B2		0.163	97.960		1A2f	Solid	0.001	99.992	
1A1a	Peat	0.153	98.113		1A2b	Liquid	0.001	99.993	
2D3c		0.142	98.254		1A2e	Gaseous	0.001	99.994	
1A3biii	Liquid	0.140	98.394		1A2f	Gaseous	0.001	99.995	
1A4ciii	Liquid	0.099	98.493		1A1b	Biomass	0.001	99.996	
1A3ai(i)	Liquid	0.093	98.586		1A2c	Biomass	0.001	99.997	
2L		0.091	98.677		2C7a		0.001	99.998	
5A		0.084	98.761		1A2e	Liquid	0.001	99.998	
1B1b		0.082	98.843		1A2a	Biomass	0.001	99.999	
1A3c	Liquid	0.072	98.915		1A2b	Solid	0.000	99.999	
1A4ai	Liquid	0.068	98.984		1A2d	Solid	0.000	100.000	
1A5a	Gaseous	0.062	99.045		1A2a	Liquid	0.000	100.000	
3Da3		0.061	99.107		1A4ci	Gaseous	0.000	100.000	
1A2gviii	Liquid	0.058	99.165		1A2e	Solid	0.000	100.000	
3B4giii		0.045	99.210		1A2c	Other	0.000	100.000	
1A2gviii	Other	0.043	99.253		1A1b	Solid	0.000	100.000	
1A2gviii	Gaseous	0.040	99.293		1A4bi	Other	0.000	100.000	
1A3bii	Gasoline	0.040	99.333		1A2b	Gaseous	0.000	100.000	
1A1a	Gaseous	0.038	99.371		1A3ei	Gaseous	0.000	100.000	

SOx

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1a	Solid	10.691	10.691	Yes	1A2f	Other	0.087	99.375	
1A1b	Liquid	8.507	19.198	Yes	1A3bi	Gasoline	0.080	99.455	
1A2b	Solid	7.515	26.713	Yes	1A3biii	Diesel oil	0.062	99.517	
1A1a	Peat	7.126	33.838	Yes	1A3aii(i)	Liquid	0.051	99.568	
2B10a		6.208	40.046	Yes	1A2d	Gaseous	0.046	99.614	
1A4ai	Liquid	5.759	45.805	Yes	1A2a	Liquid	0.045	99.659	
1A2c	Liquid	5.622	51.427	Yes	1A4bi	Peat	0.044	99.703	
1A2b	Liquid	5.348	56.774	Yes	2L		0.040	99.743	
2C1		5.119	61.893	Yes	1A2gviii	Gaseous	0.039	99.782	
1A1a	Biomass	4.329	66.222	Yes	1A3bi	Diesel oil	0.036	99.818	
1A2d	Biomass	4.111	70.333	Yes	1A2f	Gaseous	0.029	99.847	
2H1		3.204	73.536	Yes	2G		0.026	99.873	
1B1b		3.137	76.673	Yes	1A2gvii	Liquid	0.024	99.898	
1A5a	Biomass	2.037	78.710	Yes	1A3bii	Diesel oil	0.020	99.917	
1A2a	Solid	1.831	80.541	Yes	1A4cii	Liquid	0.016	99.933	
1A2d	Liquid	1.797	82.339		1A2f	Biomass	0.015	99.948	
1A5a	Liquid	1.696	84.034		2C2		0.008	99.956	
1A4ci	Peat	1.681	85.715		1A2d	Solid	0.007	99.963	
1A1a	Liquid	1.531	87.246		1A1a	Gaseous	0.007	99.970	
1A2f	Liquid	1.504	88.750		1A4aii	Liquid	0.006	99.976	
1A4bi	Biomass	1.262	90.012		1A2a	Gaseous	0.006	99.983	
1A4ci	Liquid	1.243	91.255		1A4bii	Liquid	0.004	99.987	
1A2gviii	Biomass	0.852	92.107		1A2c	Gaseous	0.002	99.989	
1A2d	Peat	0.752	92.859		1A3biv	Gasoline	0.002	99.991	
1A1a	Other	0.713	93.573		1A4ciii	Liquid	0.002	99.993	
2C7a		0.618	94.191		2D3i		0.001	99.994	
1A4bi	Liquid	0.617	94.809		1A2a	Biomass	0.001	99.995	
1A2e	Peat	0.566	95.375		1A1b	Biomass	0.001	99.997	
1A5a	Gaseous	0.553	95.927		1A3c	Liquid	0.001	99.998	
1A2f	Solid	0.433	96.360		1A1b	Solid	0.000	99.998	
2C7b		0.382	96.742		1A3biii	Liquid	0.000	99.998	
1A1b	Gaseous	0.292	97.034		1A3bi	Gaseous	0.000	99.999	
1A3dii	Liquid	0.290	97.324		1A3bii	Gasoline	0.000	99.999	
1A3ai(i)	Liquid	0.251	97.575		2C7c		0.000	99.999	
1A2e	Biomass	0.229	97.804		1A3biii	Gaseous	0.000	99.999	
1A2c	Other	0.219	98.023		2D3g		0.000	99.999	
1A2gviii	Liquid	0.210	98.233		1A2e	Gaseous	0.000	100.000	
1A2e	Liquid	0.181	98.414		1A2e	Solid	0.000	100.000	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Other	0.169	98.583		1A4ai	Gas-seous	0.000	100.000	
1A4ci	Biomass	0.169	98.752		1A4bi	Gas-seous	0.000	100.000	
1A2gviii	Peat	0.131	98.884		1A4bi	Other	0.000	100.000	
1A2c	Biomass	0.110	98.994		1A3biv	Diesel oil	0.000	100.000	
1A2gviii	Other	0.103	99.097		1A4ci	Gas-seous	0.000	100.000	
1A4ai	Peat	0.100	99.198		1A3ei	Gas-seous	0.000	100.000	
1A4ai	Biomass	0.091	99.288		1A2b	Gas-seous	0.000	100.000	

NH3

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
3Da2a		22.632	22.632	Yes	1A3biii	Diesel oil	0.086	99.619	
3B1a		17.643	40.275	Yes	3B4giv		0.075	99.694	
3B1b		16.130	56.405	Yes	1A3bii	Diesel oil	0.071	99.766	
3Da1		11.397	67.802	Yes	2G		0.052	99.818	
3B3		5.371	73.174	Yes	1A4ci	Bio-mass	0.028	99.846	
3Da3		3.213	76.387	Yes	1A3bi	Gas-seous	0.021	99.867	
1A4bi	Biomass	3.186	79.573	Yes	1A4ai	Bio-mass	0.018	99.885	
1A3bi	Gasoline	2.399	81.972	Yes	2C7b		0.017	99.902	
3B4gii		2.276	84.248		3B4d		0.016	99.918	
6A		2.000	86.248		2D3e		0.014	99.931	
3B4h		1.909	88.157		1A2gviii		0.013	99.944	
3Da2c		1.502	89.658		1A2gvii	Liquid	0.010	99.954	
3Da4		1.359	91.017		1B1b		0.010	99.963	
3B4e		1.313	92.331		2D3g		0.007	99.971	
5D1		1.230	93.561		1A4cii	Liquid	0.006	99.977	
3B4gi		1.085	94.646		1A3biv	Gasoline	0.006	99.982	
2B10a		0.934	95.581		1A3biii	Gas-seous	0.005	99.987	
1A1a		0.856	96.437		1A3bii	Gasoline	0.004	99.992	
5B2		0.706	97.143		1A4aii	Liquid	0.002	99.994	
2H1		0.499	97.642		1A3dii	Liquid	0.002	99.996	
2D3i		0.412	98.054		2C7c		0.001	99.997	
3B4giii		0.308	98.362		1A4bii	Liquid	0.001	99.998	
5B1		0.292	98.653		1A4ciii	Liquid	0.001	99.999	
3B2		0.265	98.919		1A3c	Liquid	0.000	99.999	
3Da2b		0.232	99.151		1A3biii	Liquid	0.000	100.000	
1A3bi	Diesel oil	0.166	99.317		1A5a	Liquid	0.000	100.000	
2C1		0.119	99.436		1A3biv	Diesel oil	0.000	100.000	
2L		0.096	99.533						

PM2.5

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	55.302	55.302	Yes	2C7c		0.059	99.476	
1A3bvi		4.741	60.044	Yes	1A3ai(i)	Liquid	0.053	99.529	
1A2d	Biomass	4.637	64.681	Yes	3B4e		0.046	99.575	
1A3bvii		3.596	68.277	Yes	1A2d	Other	0.046	99.620	
2H2		3.049	71.325	Yes	1A2d	Peat	0.030	99.650	
1A3dii	Liquid	1.753	73.079	Yes	2D3d		0.027	99.678	
3Dc		1.629	74.707	Yes	3B4h		0.025	99.703	
1A3bii	Diesel oil	1.626	76.333	Yes	3B4giii		0.025	99.728	
2B10a		1.541	77.875	Yes	2I		0.025	99.752	
2C1		1.534	79.409	Yes	1A2gviii	Liquid	0.024	99.777	
1A5a	Biomass	1.433	80.842	Yes	1A2e	Bio-mass	0.022	99.798	
1A2gvii	Liquid	1.404	82.246		1A2b	Liquid	0.017	99.815	
1B1c		1.390	83.636		1A2e	Liquid	0.015	99.830	
1A3bi	Diesel oil	1.323	84.958		3B3		0.014	99.845	
1A4cii	Liquid	1.017	85.975		1A4ai	Peat	0.014	99.858	
5E		0.959	86.934		1A1a	Other	0.013	99.871	
1A3biii	Diesel oil	0.930	87.865		1A3aii(i)	Liquid	0.012	99.883	
1A4bii	Liquid	0.840	88.705		2B10b		0.011	99.894	
2G		0.818	89.523		1A3dii	Gas-seous	0.011	99.905	
2D3b		0.733	90.257		5C1bv		0.010	99.915	
1A2gviii	Biomass	0.697	90.954		1A2f	Other	0.009	99.924	
1A4ai	Liquid	0.650	91.604		1A3biv	Diesel oil	0.009	99.933	
1A4ci	Biomass	0.624	92.228		1A2a	Solid	0.008	99.941	
2H1		0.614	92.842		2A5b		0.007	99.947	
1A1a	Biomass	0.544	93.386		1A2gviii	Peat	0.006	99.954	
1A4aii	Liquid	0.459	93.846		3B2		0.006	99.960	
3B1a		0.401	94.247		1A2e	Peat	0.006	99.966	
1A4ai	Biomass	0.397	94.644		2A3		0.005	99.971	
2D3i		0.396	95.041		2C7d		0.004	99.975	
1A1a	Peat	0.372	95.413		2C3		0.004	99.979	
3B1b		0.371	95.783		2C7a		0.003	99.982	
1A2d	Liquid	0.353	96.137		1A3bi	Gas-seous	0.003	99.985	
2C2		0.335	96.471		1A2b	Solid	0.002	99.987	
1A5a	Liquid	0.325	96.796		1A2gviii	Other	0.002	99.989	
1A1a	Solid	0.298	97.094		2A2		0.002	99.991	
1A4ciii	Liquid	0.288	97.382		2A5a		0.001	99.992	
1A4ci	Peat	0.252	97.634		2D3g		0.001	99.993	
1A3bi	Gasoline	0.182	97.817		1A3biii	Gas-seous	0.001	99.994	
1A1a	Liquid	0.147	97.963		1B2av		0.001	99.995	
1A3c	Liquid	0.142	98.105		1A3bii	Gasoline	0.001	99.996	
2A5c		0.135	98.240		5A		0.001	99.997	
1A2f	Liquid	0.132	98.372		1A2c	Other	0.001	99.997	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Peat	0.109	98.481		1A2a	Liquid	0.001	99.998	
1B1b		0.108	98.589		1A2f	Solid	0.001	99.998	
1A4ci	Liquid	0.101	98.690		1A1b	Solid	0.000	99.999	
1A4bi	Liquid	0.099	98.789		3B4d		0.000	99.999	
1A2c	Liquid	0.099	98.888		1A2f	Bio-mass	0.000	99.999	
2L		0.089	98.977		1A2d	Solid	0.000	100.000	
3B4gi		0.089	99.066		2C6		0.000	100.000	
3B4gii		0.082	99.148		1A2a	Bio-mass	0.000	100.000	
1A1b	Liquid	0.079	99.227		1B2aiv		0.000	100.000	
3B4giv		0.065	99.292		1A4bi	Other	0.000	100.000	
1A3biv	Gasoline	0.064	99.356		1A2e	Solid	0.000	100.000	
1A2c	Biomass	0.061	99.417				0.000	0.000	

PM10

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	29.043	29.043	Yes	1A4bi	Peat	0.062	99.288	
1A3bvii		21.586	50.629	Yes	1A2d	Other	0.062	99.350	
3Dc		14.955	65.584	Yes	1A2e	Bio-mass	0.046	99.396	
1A3bvi		4.381	69.965	Yes	2B10b		0.045	99.441	
1A2d	Biomass	4.099	74.063	Yes	3B4e		0.037	99.478	
1A5a	Biomass	3.791	77.855	Yes	1A4ai	Peat	0.036	99.514	
2H2		1.590	79.445	Yes	2C7c		0.035	99.549	
2B10a		1.439	80.883	Yes	1A2d	Peat	0.034	99.584	
1A1a	Biomass	1.281	82.164		1A3biv	Gasoline	0.033	99.617	
1B1c		1.007	83.171		1A2c	Bio-mass	0.032	99.649	
1A3dii	Liquid	0.919	84.089		1A1a	Other	0.030	99.679	
1A1a	Peat	0.889	84.979		1A3ai(i)	Liquid	0.027	99.706	
2C1		0.866	85.845		2A5b		0.026	99.732	
1A3bii	Diesel oil	0.827	86.672		3B4h		0.026	99.758	
1A2gviii	Biomass	0.717	87.390		2C7d		0.022	99.780	
1A2gvii	Liquid	0.714	88.104		2D3d		0.022	99.802	
1A3bi	Diesel oil	0.673	88.777		1A2gviii	Liquid	0.022	99.824	
1A4ci	Peat	0.666	89.443		1A2a	Solid	0.019	99.842	
2A5c		0.658	90.100		1A2e	Peat	0.016	99.858	
3B4gi		0.601	90.701		1A2gviii	Peat	0.016	99.874	
1A4ai	Liquid	0.585	91.286		1A2b	Liquid	0.015	99.889	
1A4cii	Liquid	0.518	91.804		1A2e	Liquid	0.015	99.903	
2H1		0.502	92.305		1A2f	Other	0.011	99.914	
5E		0.488	92.793		1A2f	Solid	0.010	99.924	
1A1a	Solid	0.474	93.267		3B2		0.009	99.933	
1A3biii	Diesel oil	0.473	93.740		2A5a		0.008	99.941	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bii	Liquid	0.428	94.168		1A3dii	Gaseous	0.007	99.948	
3B4gii		0.419	94.586		1A3aii(i)	Liquid	0.006	99.953	
2G		0.417	95.003		5C1bv		0.005	99.959	
2D3b		0.407	95.410		1A2b	Solid	0.005	99.964	
1A4ci	Biomass	0.345	95.755		2C3		0.005	99.968	
3B1a		0.314	96.069		1A2gviii	Other	0.004	99.973	
3B1b		0.291	96.359		1A3biv	Diesel oil	0.004	99.977	
2C2		0.241	96.600		2A2		0.004	99.981	
1A4aii	Liquid	0.234	96.834		2A3		0.003	99.984	
3B4giv		0.232	97.066		5A		0.002	99.987	
1A5a	Liquid	0.215	97.281		2C7a		0.002	99.989	
2D3i		0.213	97.494		1A3bi	Gaseous	0.001	99.990	
1A4ai	Biomass	0.209	97.703		1A2f	Biomass	0.001	99.992	
1A4ciii	Liquid	0.163	97.866		1A2a	Liquid	0.001	99.993	
3B3		0.162	98.028		1A2a	Biomass	0.001	99.994	
1A2f	Liquid	0.137	98.165		2D3g		0.001	99.995	
1B1b		0.132	98.296		1A1b	Solid	0.001	99.996	
1A2c	Liquid	0.117	98.414		2C6		0.001	99.997	
1A4ci	Liquid	0.105	98.518		1A2c	Other	0.001	99.998	
1A2d	Liquid	0.097	98.616		1A3biii	Gaseous	0.001	99.998	
1A1a	Liquid	0.096	98.711		1B2av		0.000	99.999	
1A3bi	Gasoline	0.093	98.804		3B4d		0.000	99.999	
1A3c	Liquid	0.076	98.880		1A3bii	Gasoline	0.000	99.999	
2L		0.071	98.951		1A2d	Solid	0.000	100.000	
1A1b	Liquid	0.071	99.022		1B2aiv		0.000	100.000	
2I		0.070	99.091		1A2e	Solid	0.000	100.000	
3B4giii		0.070	99.161		1A4bi	Other	0.000	100.000	
1A4bi	Liquid	0.065	99.226						

TSP

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A3bvii		28.713	28.713	Yes	1A1a	Other	0.060	99.163	
1A4bi	Biomass	20.122	48.835	Yes	2A5b		0.056	99.219	
3Dc		9.947	58.781	Yes	3B4e		0.053	99.272	
1A5a	Biomass	9.698	68.479	Yes	1A3c	Liquid	0.053	99.325	
1A3bvi		3.925	72.404	Yes	1A4bi	Liquid	0.048	99.373	
1A2d	Biomass	3.062	75.466	Yes	3B4giii		0.046	99.419	
1A1a	Peat	2.171	77.637	Yes	1A4bi	Peat	0.046	99.466	
3B4gi		1.898	79.535	Yes	1A2e	Biomass	0.039	99.505	
1A1a	Biomass	1.786	81.321	Yes	3B4h		0.039	99.544	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4ci	Peat	1.703	83.024		1A2a	Solid	0.038	99.582	
2A5c		1.136	84.160		1A2gviii	Peat	0.035	99.616	
2B10a		1.098	85.258		2C7c		0.034	99.651	
2H2		1.095	86.353		1A2e	Peat	0.031	99.682	
1B1c		1.024	87.377		2C7d		0.030	99.711	
1A2gviii	Biomass	0.801	88.178		1A2d	Peat	0.029	99.740	
3B3		0.697	88.875		1A2c	Bio-mass	0.028	99.768	
2C1		0.676	89.551		1A3biv	Gasoline	0.022	99.790	
1A3dii	Liquid	0.611	90.162		1A2gviii	Liquid	0.021	99.811	
3B4gii		0.557	90.719		1A2f	Other	0.020	99.831	
1A3bii	Diesel oil	0.550	91.269		2D3d		0.018	99.850	
1A4ai	Liquid	0.520	91.789		1A3ai(i)	Liquid	0.018	99.868	
1A2gvii	Liquid	0.475	92.264		3B2		0.015	99.882	
3B1a		0.457	92.721		1A2e	Liquid	0.014	99.896	
1A3bi	Diesel oil	0.448	93.169		1A2f	Solid	0.013	99.909	
3B1b		0.417	93.586		1A2b	Solid	0.013	99.922	
1A1a	Solid	0.407	93.993		1A2b	Liquid	0.012	99.934	
2H1		0.363	94.356		2A5a		0.010	99.944	
2D3b		0.361	94.717		2A2		0.007	99.951	
1A4cii	Liquid	0.344	95.061		1A2gviii	Other	0.005	99.956	
5E		0.325	95.386		2C3		0.004	99.960	
1A3biii	Diesel oil	0.315	95.701		1A3dii	Gaseous	0.004	99.965	
1A4bii	Liquid	0.284	95.985		1A3aii(i)	Liquid	0.004	99.969	
2G		0.277	96.262		5C1bv		0.004	99.972	
1A4ci	Biomass	0.256	96.518		1A2f	Bio-mass	0.004	99.976	
1B1b		0.208	96.726		5A		0.003	99.979	
2C2		0.189	96.915		1A3biv	Diesel oil	0.003	99.982	
2I		0.187	97.102		1A2a	Bio-mass	0.003	99.985	
1A5a	Liquid	0.181	97.282		1A1b	Solid	0.002	99.987	
1A1b	Liquid	0.179	97.461		2C7a		0.002	99.990	
3B4giv		0.165	97.627		2A3		0.002	99.992	
1A4aii	Liquid	0.155	97.782		2C6		0.002	99.994	
2D3i		0.150	97.932		1A2a	Liquid	0.001	99.995	
1A4ai	Biomass	0.145	98.077		2D3g		0.001	99.996	
1A2d	Liquid	0.123	98.200		1A3bi	Gaseous	0.001	99.997	
1A2f	Liquid	0.122	98.322		3B4d		0.001	99.998	
1A4ciii	Liquid	0.108	98.430		1A2c	Other	0.001	99.998	
1A4ci	Liquid	0.104	98.534		1A3biii	Gaseous	0.000	99.999	
1A1a	Liquid	0.100	98.635		1B2av		0.000	99.999	
2B10b		0.094	98.729		1A2d	Solid	0.000	99.999	
1A4ai	Peat	0.093	98.822		1A3bii	Gasoline	0.000	100.000	
1A2c	Liquid	0.092	98.914		1B2aiv		0.000	100.000	
1A2d	Other	0.065	98.979		1A2e	Solid	0.000	100.000	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
2L		0.063	99.041		1A4bi	Other	0.000	100.000	
1A3bi	Gasoline	0.062	99.103						

BC

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	66.966	66.966	Yes	1A3aii(i)	Liquid	0.023	99.805	
1A3bvi		5.055	72.021	Yes	2C1		0.023	99.828	
1A3bii	Diesel oil	4.229	76.250	Yes	1A3biv	Diesel oil	0.022	99.850	
1A3bi	Diesel oil	3.652	79.902	Yes	5C1bv		0.022	99.871	
1A2gvii	Liquid	3.532	83.434	Yes	1A2e	Liquid	0.019	99.890	
1A3bvii		2.910	86.344		2G		0.016	99.906	
1A3biii	Diesel oil	2.381	88.726		1A2b	Liquid	0.016	99.922	
1A4cii	Liquid	1.799	90.525		1A4bi	Peat	0.015	99.937	
1A5a	Biomass	1.658	92.183		1A2c	Bio-mass	0.014	99.951	
1A3dii	Liquid	1.348	93.531		1A2f	Other	0.009	99.960	
1A4ai	Liquid	0.814	94.346		1A2d	Other	0.008	99.968	
1A4bii	Liquid	0.734	95.079		1A1b	Liquid	0.007	99.975	
1A5a	Liquid	0.560	95.640		1A1a	Other	0.005	99.980	
1A4aii	Liquid	0.451	96.091		1A2e	Bio-mass	0.005	99.985	
1A4ciii	Liquid	0.410	96.501		1A2d	Peat	0.004	99.989	
1A3c	Liquid	0.381	96.883		1A4ai	Peat	0.002	99.991	
5E		0.342	97.225		1A3bi	Gas-eous	0.002	99.992	
1A2d	Biomass	0.287	97.512		1A2gviii	Other	0.001	99.994	
1B1b		0.219	97.731		1A3dii	Gas-eous	0.001	99.995	
1A3bi	Gasoline	0.206	97.937		1A2gviii	Peat	0.001	99.996	
2D3b		0.173	98.110		1A2e	Peat	0.001	99.996	
2C2		0.138	98.248		1A2a	Liquid	0.001	99.997	
1A4bi	Liquid	0.137	98.385		1A3bii	Gasoline	0.001	99.998	
1A4ci	Liquid	0.128	98.513		1A2a	Solid	0.001	99.999	
1A2f	Liquid	0.126	98.639		1A3biii	Gas-eous	0.001	99.999	
1A2d	Liquid	0.124	98.763		2C3		0.000	99.999	
1A2c	Liquid	0.119	98.882		1A2b	Solid	0.000	100.000	
1A1a	Liquid	0.116	98.998		1A4bi	Other	0.000	100.000	
2B10a		0.115	99.113		1A2c	Other	0.000	100.000	
1A3ai(i)	Liquid	0.105	99.218		2D3i		0.000	100.000	
1A2gviii	Biomass	0.095	99.313		1A2f	Solid	0.000	100.000	
1A4ci	Biomass	0.083	99.396		2A2		0.000	100.000	
1A1a	Biomass	0.075	99.471		1A1b	Solid	0.000	100.000	
2H1		0.066	99.537		1A2f	Bio-mass	0.000	100.000	
1A3biv	Gasoline	0.054	99.591		1A2a	Bio-mass	0.000	100.000	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4ai	Biomass	0.053	99.644		1A2d	Solid	0.000	100.000	
1A1a	Peat	0.051	99.694		2A3		0.000	100.000	
1A4ci	Peat	0.034	99.729		2C7a		0.000	100.000	
1A1a	Solid	0.027	99.756		1A2e	Solid	0.000	100.000	
1A2gviii	Liquid	0.026	99.782				0.000	0.000	

CO

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	44.882	44.882	Yes	1A2d	Peat	0.049	99.471	
1A4bii	Liquid	10.784	55.666	Yes	1A1a	Liquid	0.046	99.517	
1A3bi	Gasoline	8.451	64.117	Yes	1A3biii	Liquid	0.044	99.561	
1A3dii	Liquid	6.789	70.906	Yes	1A2a	Gaseous	0.044	99.605	
1A4aii	Liquid	5.023	75.929	Yes	1A2d	Liquid	0.036	99.642	
1A1a	Biomass	4.245	80.174	Yes	1A2b	Liquid	0.034	99.675	
1A2d	Biomass	3.885	84.059		1A3bi	Gaseous	0.033	99.708	
1A5a	Biomass	3.078	87.137		2C1		0.033	99.741	
1A4cii	Liquid	2.524	89.661		1A2e	Peat	0.028	99.769	
1A2gvii	Liquid	2.105	91.766		1A2gviii	Peat	0.027	99.797	
1A3biv	Gasoline	1.176	92.942		1A4ci	Liquid	0.026	99.823	
1A2gviii	Biomass	0.969	93.912		1A2gviii	Gaseous	0.023	99.846	
1A3biii	Diesel oil	0.687	94.599		1A4bi	Liquid	0.022	99.868	
1A3bii	Diesel oil	0.430	95.029		1A2gviii	Other	0.015	99.883	
1A4ci	Biomass	0.418	95.446		1A1b	Gaseous	0.014	99.897	
1A5a	Liquid	0.383	95.829		1A2f	Gaseous	0.010	99.908	
1A2f	Liquid	0.371	96.200		1A2c	Gaseous	0.010	99.917	
1A1a	Peat	0.346	96.546		1A2gviii	Liquid	0.010	99.927	
1A3bi	Diesel oil	0.337	96.883		1A4ai	Gaseous	0.008	99.935	
1A4ai	Biomass	0.250	97.132		1A3biii	Gaseous	0.007	99.943	
1A3ai(i)	Liquid	0.246	97.379		2C7a		0.007	99.949	
1A2f	Solid	0.194	97.572		1A2e	Gaseous	0.006	99.955	
1A3bii	Gasoline	0.177	97.750		1A4ai	Peat	0.006	99.961	
1A5a	Gaseous	0.155	97.905		1A3biv	Diesel oil	0.006	99.967	
1A2a	Solid	0.153	98.058		1A2c	Biomass	0.005	99.973	
1A1b	Liquid	0.138	98.196		1A4bi	Gaseous	0.004	99.977	
1A2f	Other	0.134	98.330		1A1b	Biomass	0.004	99.981	
1A4ci	Peat	0.116	98.446		1A3dii	Gaseous	0.004	99.985	
1A2d	Gaseous	0.110	98.556		1A1b	Solid	0.003	99.988	
1A2d	Other	0.090	98.647		1A4bi	Peat	0.003	99.991	
1A3aii(i)	Liquid	0.089	98.736		1A2e	Liquid	0.003	99.994	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1a	Gaseous	0.086	98.823		1A2a	Liquid	0.002	99.996	
1A2e	Biomass	0.086	98.909		1A2b	Solid	0.002	99.998	
1A4ciii	Liquid	0.083	98.992		1A2c	Other	0.001	99.999	
2G		0.075	99.067		1A2e	Solid	0.000	99.999	
1A4ai	Liquid	0.069	99.136		1A4ci	Gaseous	0.000	100.000	
1A2f	Biomass	0.069	99.205		1A2a	Biomass	0.000	100.000	
1A1a	Other	0.068	99.273		1A2d	Solid	0.000	100.000	
1A2c	Liquid	0.051	99.324		1A2b	Gaseous	0.000	100.000	
1A1a	Solid	0.049	99.373		1A4bi	Other	0.000	100.000	
1A3c	Liquid	0.049	99.422		1A3ei	Gaseous	0.000	100.000	

Pb

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1b	Liquid	23.262	23.262	Yes	1A2f	Liquid	0.070	99.601	
1A2d	Biomass	20.942	44.204	Yes	1A2d	Liquid	0.070	99.670	
2G		10.504	54.708	Yes	1A4bi	Peat	0.064	99.734	
1A1a	Peat	7.225	61.933	Yes	1A3dii	Liquid	0.062	99.796	
1A5a	Biomass	7.134	69.067	Yes	1A4ci	Liquid	0.048	99.844	
1A1a	Biomass	6.292	75.359	Yes	1A4ciii	Liquid	0.035	99.878	
1A3bvi		3.992	79.351	Yes	1A3bi	Gasoline	0.017	99.895	
1A4bi	Biomass	3.929	83.280	Yes	2C7a		0.016	99.911	
2C7c		2.755	86.035		1A2e	Liquid	0.012	99.923	
2C1		2.550	88.585		1A2gviii	Liquid	0.012	99.936	
1A4ci	Peat	2.408	90.993		5C1bv		0.010	99.946	
1A2f	Solid	2.132	93.125		2B10a		0.009	99.954	
1A1a	Other	1.294	94.419		1A2d	Peat	0.007	99.962	
1A2gviii	Biomass	1.000	95.419		1A2b	Liquid	0.007	99.968	
1A2e	Peat	0.618	96.036		1A3biii	Diesel oil	0.005	99.973	
1A3aii(i)	Liquid	0.485	96.521		1A2f	Other	0.005	99.978	
1A4ci	Biomass	0.463	96.985		1A2c	Biomass	0.004	99.982	
1A1a	Liquid	0.425	97.409		1A2a	Biomass	0.004	99.986	
1A4ai	Liquid	0.325	97.735		1A3bi	Diesel oil	0.003	99.989	
1A4ai	Biomass	0.281	98.015		1A2f	Biomass	0.003	99.993	
1A5a	Liquid	0.256	98.272		5E		0.003	99.996	
2C2		0.177	98.449		1A3bii	Diesel oil	0.002	99.998	
1A2c	Liquid	0.157	98.606		2C3		0.001	99.999	
1A2e	Solid	0.151	98.757		1A2c	Other	0.001	99.999	
1A4ai	Peat	0.147	98.904		1A3biv	Gasoline	0.000	100.000	
2C6		0.111	99.015		1A2d	Solid	0.000	100.000	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1B1b		0.106	99.121		1A3biii	Liquid	0.000	100.000	
1A2d	Other	0.095	99.216		1A3bii	Gasoline	0.000	100.000	
1A2gviii	Other	0.094	99.310		1A3bi	Gaseous Diesel oil	0.000	100.000	
1A1a	Solid	0.078	99.388		1A3biv	Gasoline	0.000	100.000	
1A2gviii	Peat	0.072	99.460		1A3biii	Gaseous	0.000	100.000	
1A2e	Biomass	0.071	99.531						

Cd

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Biomass	20.980	20.980	Yes	1A1a	Solid	0.075	99.300	
1A4bi	Biomass	18.195	39.175	Yes	1A4bii	Liquid	0.071	99.371	
1A1a	Biomass	12.732	51.907	Yes	1A4ai	Liquid	0.060	99.431	
1A5a	Biomass	12.237	64.144	Yes	1A5a	Liquid	0.059	99.490	
1A1b	Liquid	8.182	72.327	Yes	1A2e	Solid	0.053	99.543	
2C7c		4.218	76.544	Yes	1A2f	Liquid	0.043	99.586	
2G		3.098	79.643	Yes	1A4ciii	Liquid	0.041	99.627	
1A1a	Other	3.041	82.683	Yes	1A4ai	Peat	0.038	99.664	
1A4ci	Biomass	2.083	84.766		1A2c	Biomass	0.037	99.701	
1A3bi	Gasoline	2.046	86.813		1A2d	Liquid	0.034	99.736	
1A2gviii	Biomass	1.978	88.791		2C2		0.034	99.770	
1A1a	Peat	1.830	90.621		1A2c	Liquid	0.032	99.802	
1A4ai	Biomass	1.300	91.921		1A2gviii	Peat	0.028	99.829	
1A3bi	Diesel oil	1.208	93.129		1A3bi	Gaseous	0.027	99.856	
2C1		0.869	93.998		5C1bv		0.026	99.882	
1A2f	Solid	0.752	94.750		1A3c	Liquid	0.020	99.902	
1A4ci	Peat	0.612	95.363		1B1b		0.020	99.923	
2C6		0.544	95.907		1A4bi	Peat	0.016	99.939	
1A2gvii	Liquid	0.492	96.399		1A2f	Biomass	0.011	99.950	
1A3bii	Diesel oil	0.491	96.890		1A4ci	Liquid	0.009	99.959	
1A3biii	Diesel oil	0.415	97.305		1A3biii	Gaseous	0.007	99.966	
1A2gviii	Other	0.327	97.632		1A2a	Biomass	0.006	99.972	
1A4cii	Liquid	0.314	97.946		1A3bii	Gasoline	0.005	99.978	
1A3bvi		0.230	98.175		2C7a		0.004	99.982	
1A2f	Other	0.172	98.347		1A3biii	Liquid	0.004	99.986	
1A2e	Peat	0.157	98.504		1A2gviii	Liquid	0.004	99.989	
1A4aii	Liquid	0.125	98.630		2C3		0.003	99.992	
1A2e	Biomass	0.121	98.751		1A2e	Liquid	0.002	99.994	
1A3biv	Gasoline	0.115	98.865		1A3biv	Diesel oil	0.002	99.996	
5E		0.103	98.969		1A2c	Other	0.002	99.998	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Other	0.094	99.063		1A2b	Liquid	0.001	99.999	
1A1a	Liquid	0.085	99.148		1A2d	Peat	0.001	100.000	
1A3dii	Liquid	0.077	99.225		1A2d	Solid	0.000	100.000	

Hg

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Biomass	19.924	19.924	Yes	5E		0.194	99.249	
1A1a	Biomass	13.378	33.302	Yes	1A2gviii	Peat	0.121	99.371	
2C1		9.949	43.251	Yes	1A2e	Bio-mass	0.090	99.461	
2B10a		8.947	52.198	Yes	1A5a	Liquid	0.075	99.535	
1A1a	Peat	8.624	60.822	Yes	1A3biv	Gasoline	0.070	99.605	
5C1bv		6.123	66.945	Yes	1A4ai	Peat	0.065	99.671	
1A4bi	Biomass	5.697	72.642	Yes	1A2c	Bio-mass	0.064	99.735	
1A1b	Liquid	3.160	75.802	Yes	1A2d	Other	0.045	99.780	
1A2f	Liquid	2.952	78.754	Yes	1A4bi	Peat	0.028	99.808	
1A3bi	Gasoline	2.541	81.295	Yes	1A2gviii	Liquid	0.025	99.833	
1A5a	Biomass	2.299	83.594		2G		0.022	99.855	
1A1a	Solid	1.910	85.503		1A1a	Liquid	0.021	99.877	
1A1a	Other	1.477	86.981		1A2e	Solid	0.020	99.897	
1A3biii	Diesel oil	1.476	88.457		1A2d	Liquid	0.016	99.913	
1A2gviii	Other	1.395	89.852		1A2c	Liquid	0.015	99.928	
1A2gviii	Biomass	1.085	90.937		1A3biii	Liquid	0.012	99.940	
1A4ci	Peat	1.075	92.012		1A4ai	Liquid	0.011	99.952	
2C7c		1.043	93.055		1A2a	Solid	0.011	99.963	
1A3bi	Diesel oil	0.857	93.912		1A2d	Solid	0.009	99.972	
1A2f	Other	0.804	94.716		1A3bii	Gasoline	0.009	99.981	
1A4ci	Biomass	0.655	95.371		1A3bi	Gas-seous Bio-mass	0.005	99.985	
1A2f	Solid	0.579	95.950		1A2f	Bio-mass	0.005	99.990	
2C6		0.562	96.511		1A2c	Other	0.003	99.993	
1A3bii	Diesel oil	0.468	96.980		1A4ci	Liquid	0.002	99.995	
1A4ai	Biomass	0.407	97.387		1B1b		0.001	99.996	
1A3dii	Liquid	0.388	97.775		1A2a	Bio-mass Diesel oil	0.001	99.997	
1A2e	Peat	0.372	98.147		1A3biv	Diesel oil	0.001	99.998	
2C2		0.356	98.503		2C7a		0.001	99.999	
1A2d	Peat	0.321	98.824		1A2e	Liquid	0.000	100.000	
1A4ciii	Liquid	0.231	99.055		1A2b	Liquid	0.000	100.000	

As

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1b	Liquid	26.394	26.394	Yes	1A2d	Liquid	0.080	99.371	
1A1a	Peat	26.135	52.528	Yes	1A2d	Peat	0.079	99.450	
2C7c		8.975	61.503	Yes	1A2gviii	Other	0.077	99.527	
1A4ci	Peat	8.022	69.525	Yes	1A2c	Liquid	0.076	99.603	
1A2d	Biomass	7.957	77.482	Yes	5E		0.073	99.676	
1A4bi	Biomass	2.709	80.190	Yes	1A4ciii	Liquid	0.073	99.749	
2C1		2.577	82.768		2C2		0.066	99.816	
1A3bvi		2.447	85.215		1A2d	Other	0.042	99.857	
1A2f	Solid	2.431	87.646		5C1bv		0.031	99.889	
1A2e	Peat	2.030	89.676		1A4ci	Liquid	0.023	99.912	
1A1a	Biomass	1.837	91.512		1A3bi	Gasoline	0.021	99.933	
2C6		1.621	93.134		1A2e	Biomass	0.014	99.947	
1A5a	Biomass	1.093	94.227		1A2gviii	Liquid	0.012	99.959	
2C7a		0.709	94.935		1A3biii	Diesel oil	0.007	99.966	
1A1a	Other	0.637	95.572		2C3		0.005	99.971	
1A1a	Solid	0.597	96.170		1A2f	Biomass	0.005	99.976	
1A4ai	Peat	0.485	96.654		1A2e	Liquid	0.004	99.980	
1A4ci	Biomass	0.308	96.962		1A3bi	Diesel oil	0.004	99.984	
1A3dii	Liquid	0.297	97.259		1A2b	Liquid	0.004	99.988	
1B1b		0.285	97.543		1A2c	Biomass	0.003	99.991	
1A2gviii	Peat	0.231	97.775		1A2d	Solid	0.003	99.994	
1A1a	Liquid	0.216	97.990		1A2f	Other	0.002	99.996	
1A4bi	Peat	0.210	98.201		1A3bii	Diesel oil	0.002	99.998	
1A4ai	Biomass	0.194	98.394		1A3biv	Gasoline	0.001	99.999	
1A4ai	Liquid	0.179	98.574		1A2a	Biomass	0.001	100.000	
1A2gviii	Biomass	0.174	98.748		1A2c	Other	0.000	100.000	
1A2e	Solid	0.171	98.919		1A3biii	Liquid	0.000	100.000	
1A5a	Liquid	0.157	99.076		1A3bii	Gasoline	0.000	100.000	
2G		0.123	99.199		1A3bi	Gaseous Diesel oil	0.000	100.000	
1A2f	Liquid	0.092	99.291		1A3biv	Diesel oil	0.000	100.000	

Cr

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1b	Liquid	26.176	26.176	Yes	1A3dii	Liquid	0.043	99.641	
2C1		17.468	43.644	Yes	1A2e	Biomass	0.042	99.683	
1A4bi	Biomass	12.223	55.868	Yes	1A2c	Biomass	0.041	99.724	
1A3bvi		9.884	65.752	Yes	1A4aii	Liquid	0.036	99.760	
1A1a	Peat	5.264	71.016	Yes	1A3biv	Gasoline	0.029	99.789	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
2C2		4.955	75.971	Yes	1A2f	Liquid	0.026	99.815	
1A5a	Biomass	4.933	80.903	Yes	1A4bii	Liquid	0.020	99.836	
1A1a	Biomass	4.216	85.119		2C7a		0.018	99.854	
1A2f	Solid	2.401	87.520		1A2d	Peat	0.018	99.871	
1A4ci	Peat	1.763	89.282		1A2f	Other	0.016	99.887	
1A2b	Solid	1.711	90.993		1A1a	Liquid	0.016	99.903	
1A4ci	Biomass	1.388	92.381		1A2d	Liquid	0.014	99.917	
1A1a	Other	1.214	93.595		1A5a	Liquid	0.013	99.930	
1A2d	Biomass	1.078	94.673		1A4ciii	Liquid	0.012	99.941	
1A4ai	Biomass	0.874	95.546		1A4ai	Liquid	0.012	99.953	
1A2gviii	Biomass	0.684	96.230		5E		0.009	99.962	
1A3bi	Gasoline	0.545	96.776		1A3bi	Gas- eous	0.007	99.969	
1A2gviii	Other	0.472	97.248		1A2c	Liquid	0.006	99.975	
1A2e	Peat	0.452	97.700		1A3c	Liquid	0.006	99.981	
1A3bi	Diesel oil	0.334	98.034		5C1bv		0.004	99.985	
2G		0.186	98.219		1A2a	Bio- mass	0.003	99.987	
1A3biii	Diesel oil	0.171	98.391		1A2f	Bio- mass	0.002	99.989	
1A2e	Solid	0.170	98.560		1A3biii	Gas- eous	0.002	99.991	
1B1b		0.163	98.723		1A4ci	Liquid	0.002	99.993	
1A1a	Solid	0.142	98.866		1A2b	Liquid	0.002	99.994	
1A2gvii	Liquid	0.142	99.008		1A3bii	Gas- oline	0.001	99.996	
1A3bii	Diesel oil	0.142	99.149		1A3biii	Liquid	0.001	99.997	
1A4ai	Peat	0.108	99.257		1A2gviii	Liquid	0.001	99.998	
1A2d	Other	0.091	99.349		1A2d	Solid	0.001	99.999	
1A4cii	Liquid	0.090	99.439		1A3biv	Diesel oil	0.001	99.999	
2C7c		0.060	99.499		1A2e	Liquid	0.000	100.000	
1A2gviii	Peat	0.052	99.551		1A2c	Other	0.000	100.000	
1A4bi	Peat	0.047	99.598						

Cu

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A3bvi		66.984	66.984	Yes	1A1a	Solid	0.037	99.640	
1A3bi	Gasoline	5.970	72.954	Yes	1A2d	Other	0.035	99.675	
1A3bi	Diesel oil	3.567	76.521	Yes	2C6		0.032	99.707	
1A1b	Liquid	2.757	79.278	Yes	1A2gviii	Other	0.032	99.739	
1A1a	Peat	2.505	81.783	Yes	1A5a	Liquid	0.029	99.768	
1A1a	Biomass	2.231	84.014		1A2gviii	Peat	0.025	99.793	
1A5a	Biomass	2.163	86.177		1A4bi	Peat	0.022	99.815	
2G		1.640	87.816		1A3biii	Gas- eous	0.021	99.836	
1A3bii	Diesel oil	1.451	89.267		1A2e	Solid	0.018	99.854	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2gvii	Liquid	1.451	90.718		1A2e	Bio-mass	0.017	99.871	
2C1		1.233	91.950		1A3bii	Gasoline	0.016	99.887	
1A3biii	Diesel oil	1.218	93.168		2C7a		0.015	99.902	
1A4cii	Liquid	0.925	94.094		1B1b		0.015	99.917	
1A4ci	Peat	0.833	94.927		1A1a	Liquid	0.013	99.929	
2C7c		0.792	95.719		1A3biii	Liquid	0.012	99.941	
1A4bi	Biomass	0.631	96.349		1A2c	Bio-mass	0.009	99.950	
1A1a	Other	0.483	96.832		1A4ai	Liquid	0.009	99.958	
1A2d	Biomass	0.449	97.281		2B10a		0.007	99.965	
1A4aii	Liquid	0.369	97.649		5E		0.006	99.971	
1A3biv	Gasoline	0.337	97.987		1A3biv	Diesel oil	0.006	99.977	
1A2gviii	Biomass	0.313	98.300		1A2d	Peat	0.006	99.983	
1A2f	Solid	0.253	98.553		1A2c	Liquid	0.005	99.988	
1A2e	Peat	0.214	98.766		1A2f	Liquid	0.004	99.992	
1A4bii	Liquid	0.208	98.974		1A2f	Other	0.002	99.994	
1A3dii	Liquid	0.112	99.086		1A2f	Bio-mass	0.002	99.995	
1A2d	Liquid	0.088	99.174		1A4ci	Liquid	0.001	99.997	
1A3bi	Gaseous	0.079	99.253		1A2a	Bio-mass	0.001	99.998	
1A4ci	Biomass	0.076	99.329		5C1bv		0.001	99.999	
1A4ciii	Liquid	0.063	99.391		1A2gviii	Liquid	0.000	99.999	
1A3c	Liquid	0.060	99.452		1A2e	Liquid	0.000	100.000	
2C2		0.056	99.507		1A2c	Other	0.000	100.000	
1A4ai	Peat	0.051	99.558		1A2b	Liquid	0.000	100.000	
1A4ai	Biomass	0.045	99.603		1A2d	Solid	0.000	100.000	

Ni

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	13.750	13.750	Yes	1A3bii	Diesel oil	0.259	97.699	
2C7c		11.249	24.999	Yes	1A3biii	Diesel oil	0.217	97.916	
2C7b		7.862	32.862	Yes	1A2d	Peat	0.190	98.106	
2C1		7.381	40.243	Yes	1A2e	Solid	0.178	98.284	
1A1a	Peat	6.926	47.169	Yes	1A2d	Other	0.178	98.462	
1A1a	Liquid	5.967	53.136	Yes	1A2e	Liquid	0.174	98.636	
1A5a	Biomass	5.549	58.685	Yes	1A4cii	Liquid	0.166	98.802	
1A1a	Biomass	5.371	64.056	Yes	1A2gviii	Liquid	0.159	98.962	
1A4ai	Liquid	4.555	68.611	Yes	1A2gviii	Other	0.153	99.115	
1A5a	Liquid	3.542	72.153	Yes	1A4ai	Peat	0.142	99.257	
1A2f	Solid	2.520	74.673	Yes	1A2e	Bio-mass	0.139	99.396	
1A4ci	Peat	2.313	76.986	Yes	1B1b		0.106	99.502	
1A2c	Liquid	2.191	79.177	Yes	1A2b	Liquid	0.093	99.595	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Biomass	1.952	81.128	Yes	1A2gviii	Peat	0.068	99.663	
1A3dii	Liquid	1.930	83.059		1A4aii	Liquid	0.066	99.729	
1A3bvi		1.862	84.921		1A4bi	Peat	0.062	99.790	
1A1a	Other	1.566	86.487		1A3biv	Gasoline	0.061	99.851	
1A4ci	Biomass	1.562	88.049		1A4bii	Liquid	0.037	99.889	
1A3bi	Gasoline	1.092	89.141		1A2b	Solid	0.028	99.917	
1A4ai	Biomass	0.983	90.124		1A1b	Liquid	0.020	99.937	
1A2f	Liquid	0.854	90.978		1A3bi	Gaseous	0.014	99.951	
1A2gviii	Biomass	0.776	91.754		1A2f	Other	0.012	99.963	
1A2d	Liquid	0.672	92.426		1A3c	Liquid	0.011	99.974	
1A4ci	Liquid	0.669	93.095		5C1bv		0.007	99.981	
2B10a		0.650	93.745		1A3biii	Gaseous	0.004	99.984	
1A3bi	Diesel oil	0.637	94.383		1A2a	Biomass	0.003	99.987	
1A2e	Peat	0.593	94.976		1A3bii	Gasoline	0.003	99.990	
2G		0.574	95.550		2C7a		0.003	99.993	
1A1a	Solid	0.535	96.086		1A2f	Biomass	0.002	99.995	
2C2		0.491	96.576		1A3biii	Liquid	0.002	99.997	
1A4ciii	Liquid	0.310	96.886		1A3biv	Diesel oil	0.001	99.999	
1A2c	Biomass	0.293	97.179		1A2d	Solid	0.001	100.000	
1A2gvii	Liquid	0.260	97.440		1A2c	Other	0.000	100.000	

Se

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	64.220	64.220	Yes	2C7c		0.532	98.738	
1A3bvi		8.390	72.610	Yes	1A4aii	Liquid	0.265	99.003	
1A4ci	Biomass	7.216	79.826	Yes	1A5a	Liquid	0.252	99.255	
1A4ai	Biomass	4.590	84.416	Yes	1A3biv	Gasoline	0.242	99.497	
1A3bi	Gasoline	4.315	88.731		5C1bv		0.215	99.712	
1A3bi	Diesel oil	2.556	91.287		1A4bii	Liquid	0.150	99.861	
1A3dii	Liquid	1.639	92.926		1A3bi	Gaseous	0.056	99.918	
1A2gvii	Liquid	1.043	93.969		1A3c	Liquid	0.043	99.961	
1A3bii	Diesel oil	1.041	95.010		1A3biii	Gaseous	0.015	99.976	
1A3biii	Diesel oil	0.890	95.900		1A3bii	Gasoline	0.011	99.987	
1A4ciii	Liquid	0.868	96.768		1A3biii	Liquid	0.009	99.996	
2C7a		0.774	97.541		1A3biv	Diesel oil	0.004	100.000	
1A4cii	Liquid	0.665	98.206						

Zn

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	27.615	27.615	Yes	1A3biv	Gasoline	0.074	99.454	
1A3bvi		15.945	43.561	Yes	1A2f	Biomass	0.070	99.524	
1A5a	Biomass	11.144	54.705	Yes	1A2d	Liquid	0.068	99.592	
1A1a	Biomass	10.124	64.829	Yes	1A3dii	Liquid	0.055	99.647	
2C6		6.813	71.642	Yes	1A4bii	Liquid	0.046	99.693	
1A1b	Liquid	4.435	76.077	Yes	1A4ciii	Liquid	0.032	99.725	
1A1a	Other	3.288	79.365	Yes	1A4ai	Peat	0.029	99.754	
1A4ci	Biomass	3.137	82.502	Yes	1A2e	Solid	0.029	99.783	
1A4ai	Biomass	1.974	84.476		1B1b		0.026	99.809	
1A2gviii	Biomass	1.893	86.369		1A2gviii	Peat	0.024	99.833	
2C1		1.567	87.936		1A1a	Liquid	0.022	99.855	
1A1a	Peat	1.433	89.369		1A5a	Liquid	0.022	99.877	
1A3bi	Gasoline	1.328	90.697		1A3bi	Gaseous	0.017	99.894	
2C7c		1.024	91.721		1A4ai	Liquid	0.016	99.910	
1A2gviii	Other	0.990	92.711		1A2c	Biomass	0.014	99.924	
1A2d	Biomass	0.796	93.508		1A3c	Liquid	0.013	99.937	
1A3bi	Diesel oil	0.783	94.291		1A4bi	Peat	0.012	99.950	
2C2		0.686	94.976		1A2c	Liquid	0.008	99.958	
1A2f	Other	0.651	95.628		1A2d	Peat	0.006	99.964	
1A4ci	Peat	0.469	96.097		1A2a	Biomass	0.006	99.970	
1A2f	Liquid	0.458	96.555		5C1bv		0.005	99.975	
1A2f	Solid	0.455	97.010		2C7a		0.005	99.980	
2G		0.359	97.369		1A3biii	Gaseous	0.005	99.984	
1A2gvii	Liquid	0.320	97.689		1A3bii	Gasoline	0.004	99.988	
1A3bii	Diesel oil	0.320	98.009		1A3biii	Liquid	0.003	99.990	
1A3biii	Diesel oil	0.279	98.287		1A4ci	Liquid	0.002	99.993	
1A2d	Other	0.262	98.549		2C3		0.002	99.995	
2B10a		0.220	98.769		1A2gviii	Liquid	0.001	99.996	
1A4cii	Liquid	0.204	98.974		1A3biv	Diesel oil	0.001	99.997	
1A2e	Peat	0.122	99.096		1A2c	Other	0.001	99.999	
1A1a	Solid	0.114	99.210		1A2e	Liquid	0.001	99.999	
1A2e	Biomass	0.088	99.298		1A2d	Solid	0.001	100.000	
1A4aii	Liquid	0.081	99.380		1A2b	Liquid	0.000	100.000	

PCDD/F

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1a	Biomass	19.276	19.276	Yes	1A4ciii	Liquid	0.045	99.535	
5E		14.541	33.817	Yes	1A2c	Liquid	0.043	99.578	
2C1		12.730	46.547	Yes	1A2f	Biomass	0.036	99.614	
1A4bi	Biomass	10.822	57.369	Yes	1A2a	Gaseous	0.034	99.648	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A2d	Biomass	9.862	67.231	Yes	1A2a	Solid	0.032	99.680	
1A1a	Other	6.029	73.260	Yes	1A2f	Solid	0.030	99.710	
1A5a	Biomass	4.367	77.627	Yes	1A3biii	Liquid	0.029	99.740	
1A3bi	Diesel oil	2.791	80.418	Yes	1A3bi	Gaseous	0.024	99.764	
1A1a	Peat	2.464	82.883		1A2d	Liquid	0.020	99.784	
2C7a		2.339	85.221		1A4ai	Peat	0.020	99.804	
1A2gviii	Biomass	2.025	87.246		1A4ci	Liquid	0.019	99.823	
1A3bi	Gasoline	1.981	89.227		1A4bi	Liquid	0.016	99.839	
1A3bii	Diesel oil	1.351	90.578		1A2c	Gaseous	0.016	99.856	
1A4ci	Biomass	1.244	91.821		1A3biv	Diesel oil	0.015	99.871	
1A4ai	Biomass	0.773	92.595		1A1b	Gaseous	0.014	99.885	
2C6		0.757	93.352		1A2c	Biomass	0.014	99.899	
1A3biii	Diesel oil	0.740	94.092		5C1bv		0.012	99.911	
1A2d	Other	0.652	94.744		1A3bii	Gasoline	0.011	99.922	
1A2f	Other	0.555	95.299		1A2b	Solid	0.010	99.932	
1A2d	Peat	0.527	95.826		1A4bi	Peat	0.009	99.940	
1A1a	Solid	0.465	96.291		1A2gviii	Liquid	0.006	99.946	
2B10a		0.345	96.636		1A2c	Other	0.006	99.952	
1A4ci	Peat	0.330	96.966		1A2f	Gaseous	0.005	99.957	
1A2gviii	Other	0.278	97.243		1A2b	Liquid	0.005	99.962	
1A1b	Liquid	0.249	97.493		1A2e	Gaseous	0.005	99.967	
1A2d	Gaseous	0.215	97.708		2G		0.004	99.972	
2A2		0.214	97.922		2A3		0.004	99.976	
2A1		0.172	98.094		1A3biii	Gaseous	0.004	99.980	
1A2e	Biomass	0.171	98.265		1A1b	Biomass	0.004	99.983	
2C3		0.164	98.429		1A2gviii	Gaseous	0.003	99.987	
1A2e	Peat	0.144	98.573		1A4ai	Gaseous	0.003	99.990	
1A3biv	Gasoline	0.138	98.710		1A2e	Liquid	0.003	99.992	
1A2f	Liquid	0.135	98.846		1A2a	Biomass	0.002	99.994	
1A3dii	Liquid	0.095	98.941		1A2d	Solid	0.002	99.997	
1A1a	Gaseous	0.087	99.028		1A4bi	Gaseous	0.001	99.998	
2D3b		0.068	99.096		1A2e	Solid	0.001	99.999	
1A5a	Liquid	0.065	99.161		1A2a	Liquid	0.001	100.000	
1A2gviii	Peat	0.059	99.219		1A1b	Solid	0.000	100.000	
1A4ai	Liquid	0.056	99.276		1A4ci	Gaseous	0.000	100.000	
1A1a	Liquid	0.055	99.331		1A2b	Gaseous	0.000	100.000	
2L		0.055	99.386		1A4bi	Other	0.000	100.000	
1A5a	Gaseous	0.052	99.438		1A3ei	Gaseous	0.000	100.000	
1B1b		0.052	99.490						

PAH-4

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4bi	Biomass	93.159	93.159	Yes	1A4ci	Peat	0.009	99.924	
1A1a	Biomass	1.411	94.570		1A4ai	Bio-mass	0.009	99.932	
1A1a	Other	1.248	95.818		1A3dii	Liquid	0.009	99.941	
1A2gviii	Other	1.016	96.834		5C1bv		0.007	99.948	
1A3bi	Diesel oil	0.469	97.303		1A3c	Liquid	0.007	99.954	
1A2d	Biomass	0.432	97.734		1A3biv	Gasoline	0.006	99.961	
1A5a	Biomass	0.265	98.000		2G		0.005	99.966	
1A3biii	Diesel oil	0.250	98.250		1A3biii	Gasous	0.004	99.970	
1A3bii	Diesel oil	0.202	98.452		1A2e	Peat	0.004	99.974	
1A2gviii	Biomass	0.160	98.613		1A4ciii	Liquid	0.004	99.977	
1A3bi	Gasoline	0.160	98.773		1A2e	Liquid	0.003	99.981	
1A2gvii	Liquid	0.158	98.931		1A3biii	Liquid	0.003	99.984	
1A4ai	Liquid	0.154	99.085		1A2c	Bio-mass	0.003	99.986	
1A1a	Liquid	0.112	99.197		1A3bi	Gasous	0.002	99.989	
1A4cii	Liquid	0.101	99.298		1A2f	Bio-mass	0.002	99.991	
1A1a	Peat	0.076	99.374		1A2gviii	Peat	0.002	99.993	
1A5a	Liquid	0.063	99.438		2C2		0.001	99.994	
1A2d	Liquid	0.058	99.495		1A3biv	Diesel oil	0.001	99.995	
2D3i		0.058	99.553		1A1b	Liquid	0.001	99.996	
1A4ci	Liquid	0.048	99.601		1A2a	Liquid	0.001	99.997	
1A4aii	Liquid	0.040	99.641		1A1a	Solid	0.001	99.997	
1A4bi	Liquid	0.039	99.680		1A3bii	Gasoline	0.001	99.998	
1A2d	Other	0.037	99.717		2A1		0.001	99.999	
1B1b		0.031	99.748		1A4ai	Peat	0.001	99.999	
1A2f	Liquid	0.028	99.776		1A2c	Other	0.000	100.000	
2C1		0.026	99.802		1A4bi	Peat	0.000	100.000	
1A4bii	Liquid	0.023	99.824		1A2a	Bio-mass	0.000	100.000	
1A2c	Liquid	0.017	99.841		1A2f	Solid	0.000	100.000	
1A2f	Other	0.016	99.857		1A4bi	Other	0.000	100.000	
1A4ci	Biomass	0.015	99.872		1A2b	Solid	0.000	100.000	
1A2gviii	Liquid	0.011	99.883		1A2d	Solid	0.000	100.000	
1A2d	Peat	0.011	99.895		1A2a	Solid	0.000	100.000	
1A2e	Biomass	0.011	99.906		1A2e	Solid	0.000	100.000	
1A2b	Liquid	0.009	99.915		1A1b	Solid	0.000	100.000	

HCB

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
2B10a		69.002	69.002	Yes	1A5a	Liquid	0.003	99.992	
2C7a		26.230	95.232	Yes	1A2a	Solid	0.001	99.993	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A1a	Biomass	2.110	97.342		1A2f	Solid	0.001	99.994	
1A4bi	Biomass	0.985	98.327		1A3bi	Diesel oil	0.001	99.996	
1A2d	Biomass	0.532	98.859		1A2d	Other	0.001	99.996	
1A2gviii		0.335	99.194		1A3bi	Gasoline	0.001	99.997	
1A2gviii	Biomass	0.226	99.419		1A2c	Biomass	0.001	99.998	
3Df		0.112	99.532		1A2b	Solid	0.001	99.998	
1A4ci	Biomass	0.111	99.642		1A3bii	Diesel oil	0.001	99.999	
1A5a	Biomass	0.080	99.722		1A1a	Solid	0.000	99.999	
1A4ai	Biomass	0.070	99.792		1A2a	Biomass	0.000	100.000	
2C1		0.055	99.848		1A3biii	Diesel oil	0.000	100.000	
2C3		0.050	99.898		1A2d	Solid	0.000	100.000	
5C1bv		0.025	99.923		1A2e	Solid	0.000	100.000	
1A3dii	Liquid	0.020	99.942		1A3biv	Gasoline	0.000	100.000	
1A2e	Biomass	0.015	99.957		1A3bi	Gasous	0.000	100.000	
1A4ciii	Liquid	0.011	99.968		1A3biv	Diesel oil	0.000	100.000	
2D3i		0.008	99.976		1A3bii	Gasoline	0.000	100.000	
1A1a	Other	0.006	99.982		1A3biii	Liquid	0.000	100.000	
1A2gviii	Other	0.004	99.986		1A3biii	Gasous	0.000	100.000	
1A2f	Biomass	0.003	99.989						

PCB

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
2C1		62.315	62.315	Yes	1A4ai	Biomass	0.001	99.997	
1B1b		20.306	82.621	Yes	1A4ci	Peat	0.001	99.998	
2A1		12.847	95.468		1A4ci	Liquid	0.000	99.998	
1A1a	Biomass	2.414	97.882		1A3bi	Diesel oil	0.000	99.998	
1A2a	Solid	0.623	98.505		1A2e	Biomass	0.000	99.999	
1A2f	Solid	0.510	99.015		1A1a	Solid	0.000	99.999	
2C3		0.276	99.291		2A2		0.000	99.999	
1A2b	Solid	0.268	99.559		1A3bi	Gasoline	0.000	99.999	
1A2gviii		0.114	99.673		1A3bii	Diesel oil	0.000	100.000	
5C1bv		0.112	99.785		1A2gviii	Other	0.000	100.000	
1A2d	Solid	0.060	99.845		1A3biii	Diesel oil	0.000	100.000	
2C7c		0.032	99.877		1A2f	Biomass	0.000	100.000	
1A3dii	Liquid	0.031	99.908		1A4ai	Peat	0.000	100.000	
1A2e	Solid	0.027	99.935		1A3biv	Gasoline	0.000	100.000	
1A4bi	Biomass	0.019	99.954		1A4bi	Peat	0.000	100.000	
1A2d	Biomass	0.010	99.964		1A2d	Other	0.000	100.000	

NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source	NFR Code	Fuel	Contribution percentage	Cumulative percentage	Key source
1A4ciii	Liquid	0.008	99.973		1A2c	Bio-mass	0.000	100.000	
1A1a	Other	0.007	99.979		1A2a	Bio-mass	0.000	100.000	
1A4ai	Liquid	0.006	99.985		1A3bii	Gasoline	0.000	100.000	
1A2gviii	Biomass	0.004	99.990		1A3biii	Liquid	0.000	100.000	
1A4ci	Biomass	0.002	99.992		1A3bi	Gaseous Diesel oil	0.000	100.000	
2C7a		0.002	99.994		1A3biv	Gasoline	0.000	100.000	
1A4bi	Liquid	0.002	99.995		1A3biii	Gaseous	0.000	100.000	

Trend analysis

The key category assessment by trend for the 2026 submission is presented below.

NO_x

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gasoline	62.636	306.880	2.216	92.020	Gg	0.054	16.936	16.936	Yes
1A3biii	Diesel oil	58.866	306.880	6.647	92.020	Gg	0.036	11.251	28.187	Yes
1A1a	Solid	36.204	306.880	0.852	92.020	Gg	0.033	10.227	38.414	Yes
1A2d	Biomass	8.656	306.880	11.096	92.020	Gg	0.028	8.691	47.105	Yes
1A1a	Biomass	1.017	306.880	7.731	92.020	Gg	0.024	7.592	54.697	Yes
1A3bi	Diesel oil	6.783	306.880	7.092	92.020	Gg	0.016	5.171	59.868	Yes
1A3bii	Diesel oil	4.439	306.880	5.507	92.020	Gg	0.014	4.269	64.137	Yes
3Da1		9.143	306.880	5.640	92.020	Gg	0.009	2.963	67.100	Yes
1A4bi	Biomass	3.303	306.880	3.586	92.020	Gg	0.008	2.654	69.754	Yes
1A4cii	Liquid	12.825	306.880	1.477	92.020	Gg	0.008	2.422	72.176	Yes
1A1a	Gaseous	8.859	306.880	0.641	92.020	Gg	0.007	2.060	74.236	Yes
1A5a	Biomass	0.032	306.880	1.809	92.020	Gg	0.006	1.840	76.076	Yes
1A1a	Other	0.006	306.880	1.736	92.020	Gg	0.006	1.773	77.849	Yes
3Da2a		3.275	306.880	2.625	92.020	Gg	0.005	1.680	79.529	Yes
1A3dii	Liquid	9.130	306.880	4.058	92.020	Gg	0.004	1.350	80.879	Yes
1A5a	Liquid	2.178	306.880	1.949	92.020	Gg	0.004	1.324	82.203	
1A2a	Solid	2.398	306.880	1.970	92.020	Gg	0.004	1.279	83.482	
1A1a	Peat	9.791	306.880	1.815	92.020	Gg	0.004	1.146	84.628	
1A2f	Solid	3.724	306.880	0.152	92.020	Gg	0.003	0.986	85.614	
1A2a	Gaseous	0.203	306.880	1.004	92.020	Gg	0.003	0.964	86.578	
1A4bii	Liquid	0.396	306.880	0.868	92.020	Gg	0.002	0.766	87.344	
1A2d	Solid	2.455	306.880	0.006	92.020	Gg	0.002	0.747	88.091	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Liquid	3.114	306.880	0.218	92.020	Gg	0.002	0.732	88.823	
1A2c	Liquid	1.137	306.880	1.042	92.020	Gg	0.002	0.717	89.540	
1A4aii	Liquid	5.216	306.880	0.875	92.020	Gg	0.002	0.705	90.245	
1A2gviii	Biomass	0.862	306.880	0.934	92.020	Gg	0.002	0.691	90.935	
1A2f	Liquid	0.665	306.880	0.864	92.020	Gg	0.002	0.680	91.615	
1A3ai(i)	Liquid	0.251	306.880	0.729	92.020	Gg	0.002	0.669	92.284	
1A2gviii	Other	0.148	306.880	0.628	92.020	Gg	0.002	0.597	92.881	
1A4ciii	Liquid	3.580	306.880	1.512	92.020	Gg	0.001	0.449	93.330	
1A5a	Gaseous	0.116	306.880	0.457	92.020	Gg	0.001	0.431	93.761	
1A3bii	Gasoline	1.532	306.880	0.052	92.020	Gg	0.001	0.417	94.177	
1A3c	Liquid	4.212	306.880	0.900	92.020	Gg	0.001	0.371	94.549	
1A1b	Liquid	2.045	306.880	0.916	92.020	Gg	0.001	0.309	94.858	
1A1a	Liquid	3.798	306.880	0.840	92.020	Gg	0.001	0.306	95.164	
1A4ci	Biomass	0.520	306.880	0.439	92.020	Gg	0.001	0.289	95.453	
1A2d	Other	0.044	306.880	0.274	92.020	Gg	0.001	0.266	95.719	
3Da2c		0.104	306.880	0.284	92.020	Gg	0.001	0.258	95.977	
1A1b	Gaseous	1.269	306.880	0.152	92.020	Gg	0.001	0.234	96.211	
1A2d	Gaseous	3.395	306.880	0.801	92.020	Gg	0.001	0.222	96.433	
1A2gviii	Liquid	1.266	306.880	0.168	92.020	Gg	0.001	0.216	96.649	
1A4ai	Biomass	0.156	306.880	0.256	92.020	Gg	0.001	0.214	96.864	
1A2f	Other	0.580	306.880	0.361	92.020	Gg	0.001	0.192	97.055	
1A3biii	Liquid	0.000	306.880	0.181	92.020	Gg	0.001	0.185	97.241	
3Da3		0.785	306.880	0.408	92.020	Gg	0.001	0.177	97.418	
1A4ci	Peat	0.040	306.880	0.175	92.020	Gg	0.001	0.167	97.584	
1A2d	Peat	1.476	306.880	0.282	92.020	Gg	0.001	0.165	97.749	
1A2e	Liquid	0.662	306.880	0.040	92.020	Gg	0.001	0.162	97.911	
3B1b		0.157	306.880	0.189	92.020	Gg	0.000	0.145	98.056	
1A4ai	Liquid	2.314	306.880	0.824	92.020	Gg	0.000	0.133	98.189	
1A2d	Liquid	2.136	306.880	0.530	92.020	Gg	0.000	0.113	98.303	
1A3biv	Gasoline	0.065	306.880	0.130	92.020	Gg	0.000	0.113	98.415	
1A2b	Solid	0.422	306.880	0.018	92.020	Gg	0.000	0.111	98.527	
1A2gvii	Liquid	12.650	306.880	3.901	92.020	Gg	0.000	0.111	98.637	
3B4gii		0.027	306.880	0.103	92.020	Gg	0.000	0.097	98.735	
1A2e	Biomass	0.033	306.880	0.103	92.020	Gg	0.000	0.095	98.830	
2B10a		0.061	306.880	0.106	92.020	Gg	0.000	0.090	98.920	
3Da2b		0.063	306.880	0.103	92.020	Gg	0.000	0.086	99.006	
1A2gviii	Gaseous	0.075	306.880	0.105	92.020	Gg	0.000	0.085	99.090	
1A2e	Peat	0.165	306.880	0.129	92.020	Gg	0.000	0.081	99.172	
1A2c	Gaseous	0.181	306.880	0.133	92.020	Gg	0.000	0.081	99.253	
1A2a	Liquid	0.466	306.880	0.063	92.020	Gg	0.000	0.079	99.331	
1A2e	Solid	0.247	306.880	0.000	92.020	Gg	0.000	0.075	99.407	
1A3biii	Gaseous	0.000	306.880	0.068	92.020	Gg	0.000	0.069	99.476	
1A3dii	Gaseous	0.000	306.880	0.060	92.020	Gg	0.000	0.062	99.538	
1A4ci	Liquid	0.744	306.880	0.265	92.020	Gg	0.000	0.043	99.581	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2c	Other	0.152	306.880	0.005	92.020	Gg	0.000	0.041	99.622	
3B4gi		0.052	306.880	0.053	92.020	Gg	0.000	0.039	99.660	
1A3aii(i)	Liquid	0.311	306.880	0.129	92.020	Gg	0.000	0.037	99.697	
1A2c	Biomass	0.089	306.880	0.058	92.020	Gg	0.000	0.032	99.729	
1A2gviii	Peat	0.046	306.880	0.043	92.020	Gg	0.000	0.030	99.759	
1A1b	Biomass	0.000	306.880	0.028	92.020	Gg	0.000	0.029	99.788	
1A2f	Gaseous	0.261	306.880	0.060	92.020	Gg	0.000	0.019	99.807	
1A2f	Biomass	0.000	306.880	0.017	92.020	Gg	0.000	0.017	99.824	
1A3biv	Diesel oil	0.000	306.880	0.016	92.020	Gg	0.000	0.017	99.841	
3B3		0.074	306.880	0.006	92.020	Gg	0.000	0.017	99.857	
1A4ci	Gaseous	0.056	306.880	0.001	92.020	Gg	0.000	0.016	99.873	
1A4bi	Peat	0.065	306.880	0.004	92.020	Gg	0.000	0.016	99.889	
3B4e		0.011	306.880	0.018	92.020	Gg	0.000	0.015	99.904	
3B1a		0.166	306.880	0.036	92.020	Gg	0.000	0.014	99.918	
1A4ai	Gaseous	0.043	306.880	0.027	92.020	Gg	0.000	0.014	99.932	
2B2		0.744	306.880	0.236	92.020	Gg	0.000	0.013	99.945	
3B4giii		0.001	306.880	0.010	92.020	Gg	0.000	0.010	99.955	
1A4ai	Peat	0.015	306.880	0.012	92.020	Gg	0.000	0.008	99.963	
1A3bi	Gaseous	0.000	306.880	0.006	92.020	Gg	0.000	0.007	99.970	
3B2		0.006	306.880	0.007	92.020	Gg	0.000	0.006	99.975	
1A2e	Gaseous	0.088	306.880	0.032	92.020	Gg	0.000	0.005	99.981	
1A2b	Liquid	0.240	306.880	0.076	92.020	Gg	0.000	0.004	99.985	
1A4bi	Gaseous	0.030	306.880	0.013	92.020	Gg	0.000	0.004	99.989	
1A2a	Biomass	0.000	306.880	0.003	92.020	Gg	0.000	0.003	99.992	
1A3ei	Gaseous	0.009	306.880	0.000	92.020	Gg	0.000	0.003	99.995	
2G		0.016	306.880	0.007	92.020	Gg	0.000	0.002	99.997	
1A4bi	Other	0.003	306.880	0.000	92.020	Gg	0.000	0.001	99.998	
3B4giv		0.007	306.880	0.003	92.020	Gg	0.000	0.001	99.999	
3B4d		0.000	306.880	0.000	92.020	Gg	0.000	0.000	100	
3B4h		0.042	306.880	0.013	92.020	Gg	0.000	0.000	100	
1A1b	Solid	0.005	306.880	0.002	92.020	Gg	0.000	0.000	100	
1A2b	Gaseous	0.000	306.880	0.000	92.020	Gg	0.000	0.000	100	

NMVOC

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gasoline	49.364	233.070	1.400	73.901	Gg	0.061	21.452	21.452	Yes
1A4bi	Biomass	17.720	233.070	17.578	73.901	Gg	0.051	18.002	39.453	Yes
2D3a		2.773	233.070	6.005	73.901	Gg	0.022	7.715	47.168	Yes
2D3d		27.500	233.070	4.768	73.901	Gg	0.017	5.948	53.116	Yes

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
3B1a		6.851	233.070	5.825	73.901	Gg	0.016	5.498	58.614	Yes
3B1b		4.004	233.070	3.833	73.901	Gg	0.011	3.858	62.472	Yes
2D3h		8.800	233.070	0.352	73.901	Gg	0.010	3.670	66.142	Yes
1A3biii	Diesel oil	7.843	233.070	0.234	73.901	Gg	0.010	3.391	69.533	Yes
2D3c		6.260	233.070	0.105	73.901	Gg	0.008	2.830	72.363	Yes
1A3bv		13.655	233.070	2.719	73.901	Gg	0.007	2.425	74.788	Yes
1A4aii	Liquid	6.267	233.070	0.389	73.901	Gg	0.007	2.406	77.194	Yes
2H2		2.523	233.070	2.298	73.901	Gg	0.006	2.255	79.449	Yes
1A1a	Biomass	0.109	233.070	1.331	73.901	Gg	0.006	1.951	81.400	Yes
1A4cii	Liquid	6.642	233.070	1.021	73.901	Gg	0.005	1.633	83.033	
3Da2a		3.886	233.070	2.230	73.901	Gg	0.004	1.502	84.535	
3B4gii		0.259	233.070	0.873	73.901	Gg	0.003	1.190	85.725	
1A3dii	Liquid	9.646	233.070	2.286	73.901	Gg	0.003	1.162	86.887	
2I		1.070	233.070	1.110	73.901	Gg	0.003	1.160	88.047	
2D3i		2.085	233.070	1.314	73.901	Gg	0.003	0.983	89.030	
1B2aiv		6.600	233.070	1.463	73.901	Gg	0.003	0.948	89.978	
3De		1.062	233.070	0.944	73.901	Gg	0.003	0.915	90.892	
1A3bii	Gasoline	1.669	233.070	0.029	73.901	Gg	0.002	0.752	91.645	
1A4bii	Liquid	6.597	233.070	1.661	73.901	Gg	0.002	0.649	92.293	
2B10a		7.836	233.070	2.060	73.901	Gg	0.002	0.640	92.933	
1A3biv	Gasoline	2.767	233.070	0.498	73.901	Gg	0.002	0.572	93.505	
1A4ci	Peat	0.080	233.070	0.316	73.901	Gg	0.001	0.437	93.941	
1B2av		7.411	233.070	2.640	73.901	Gg	0.001	0.436	94.378	
1A3bi	Diesel oil	1.332	233.070	0.143	73.901	Gg	0.001	0.421	94.799	
1A1a	Other	0.001	233.070	0.278	73.901	Gg	0.001	0.417	95.216	
1A2d	Biomass	0.430	233.070	0.356	73.901	Gg	0.001	0.330	95.546	
2D3g		3.956	233.070	1.470	73.901	Gg	0.001	0.324	95.871	
3B4gi		0.219	233.070	0.263	73.901	Gg	0.001	0.291	96.162	
1A5a	Biomass	0.014	233.070	0.181	73.901	Gg	0.001	0.266	96.428	
2D3e		2.638	233.070	0.662	73.901	Gg	0.001	0.262	96.690	
3B4e		0.161	233.070	0.225	73.901	Gg	0.001	0.261	96.951	
2D3b		0.900	233.070	0.169	73.901	Gg	0.000	0.175	97.127	
1A2gvii	Liquid	2.366	233.070	0.859	73.901	Gg	0.000	0.164	97.291	
1B2b		0.229	233.070	0.181	73.901	Gg	0.000	0.163	97.454	
3B3		0.423	233.070	0.240	73.901	Gg	0.000	0.159	97.613	
2H1		2.966	233.070	1.045	73.901	Gg	0.000	0.157	97.770	
1A3biii	Liquid	0.000	233.070	0.103	73.901	Gg	0.000	0.156	97.926	
1A2gviii	Biomass	0.199	233.070	0.162	73.901	Gg	0.000	0.148	98.074	
1A5a	Liquid	0.140	233.070	0.132	73.901	Gg	0.000	0.132	98.206	
3B2		0.110	233.070	0.120	73.901	Gg	0.000	0.128	98.334	
2C1		0.796	233.070	0.176	73.901	Gg	0.000	0.116	98.449	
2L		0.013	233.070	0.067	73.901	Gg	0.000	0.095	98.545	
1A3ai(i)	Liquid	0.056	233.070	0.069	73.901	Gg	0.000	0.077	98.622	
1A2d	Liquid	0.174	233.070	0.005	73.901	Gg	0.000	0.076	98.698	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Peat	0.199	233.070	0.113	73.901	Gg	0.000	0.075	98.773	
1B1b		0.037	233.070	0.060	73.901	Gg	0.000	0.073	98.846	
1A4bi	Liquid	0.195	233.070	0.014	73.901	Gg	0.000	0.072	98.918	
1A5a	Gaseous	0.012	233.070	0.046	73.901	Gg	0.000	0.063	98.981	
1A2gviii	Liquid	0.017	233.070	0.043	73.901	Gg	0.000	0.057	99.038	
1A3bii	Diesel oil	0.796	233.070	0.287	73.901	Gg	0.000	0.052	99.089	
1A4bi	Peat	0.130	233.070	0.009	73.901	Gg	0.000	0.049	99.139	
1A2a	Gaseous	0.111	233.070	0.004	73.901	Gg	0.000	0.047	99.186	
3B4giii		0.006	233.070	0.033	73.901	Gg	0.000	0.047	99.233	
1A2gviii	Gaseous	0.002	233.070	0.029	73.901	Gg	0.000	0.043	99.276	
1A2gviii	Other	0.011	233.070	0.032	73.901	Gg	0.000	0.043	99.319	
1A4ciii	Liquid	0.144	233.070	0.073	73.901	Gg	0.000	0.041	99.360	
1A3dii	Gaseous	0.000	233.070	0.027	73.901	Gg	0.000	0.041	99.400	
3B4h		1.028	233.070	0.300	73.901	Gg	0.000	0.039	99.439	
1A3biv	Diesel oil	0.000	233.070	0.025	73.901	Gg	0.000	0.038	99.476	
1A1b	Liquid	0.005	233.070	0.025	73.901	Gg	0.000	0.036	99.512	
1A1a	Solid	0.117	233.070	0.015	73.901	Gg	0.000	0.033	99.545	
2C7b		0.010	233.070	0.024	73.901	Gg	0.000	0.031	99.577	
1A3c	Liquid	0.234	233.070	0.053	73.901	Gg	0.000	0.031	99.608	
1A2d	Gaseous	0.077	233.070	0.009	73.901	Gg	0.000	0.024	99.631	
2B10b		0.134	233.070	0.027	73.901	Gg	0.000	0.023	99.655	
1A1a	Gaseous	0.042	233.070	0.028	73.901	Gg	0.000	0.022	99.677	
1A2d	Other	0.000	233.070	0.015	73.901	Gg	0.000	0.022	99.699	
3Da3		0.099	233.070	0.045	73.901	Gg	0.000	0.021	99.720	
1A2d	Solid	0.038	233.070	0.000	73.901	Gg	0.000	0.018	99.738	
5A		0.234	233.070	0.062	73.901	Gg	0.000	0.018	99.756	
1A4ci	Biomass	0.020	233.070	0.018	73.901	Gg	0.000	0.018	99.774	
1A4ai	Peat	0.016	233.070	0.016	73.901	Gg	0.000	0.017	99.790	
1A4ai	Liquid	0.125	233.070	0.050	73.901	Gg	0.000	0.016	99.807	
1A1a	Liquid	0.027	233.070	0.019	73.901	Gg	0.000	0.016	99.823	
1A2f	Other	0.000	233.070	0.008	73.901	Gg	0.000	0.013	99.836	
1A4ai	Biomass	0.007	233.070	0.010	73.901	Gg	0.000	0.011	99.847	
5D1		0.003	233.070	0.008	73.901	Gg	0.000	0.011	99.857	
2A3		0.001	233.070	0.007	73.901	Gg	0.000	0.010	99.868	
5D2		0.022	233.070	0.013	73.901	Gg	0.000	0.010	99.877	
2C7c		0.025	233.070	0.002	73.901	Gg	0.000	0.010	99.887	
1A2e	Biomass	0.007	233.070	0.009	73.901	Gg	0.000	0.010	99.897	
1A2c	Gaseous	0.002	233.070	0.006	73.901	Gg	0.000	0.009	99.905	
2C3		0.022	233.070	0.001	73.901	Gg	0.000	0.009	99.914	
1A2f	Biomass	0.000	233.070	0.006	73.901	Gg	0.000	0.009	99.923	
1A2a	Solid	0.017	233.070	0.011	73.901	Gg	0.000	0.008	99.930	
2G		0.043	233.070	0.018	73.901	Gg	0.000	0.007	99.938	
3B4giv		0.033	233.070	0.015	73.901	Gg	0.000	0.007	99.945	
1A3biii	Gaseous	0.000	233.070	0.004	73.901	Gg	0.000	0.007	99.952	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gaseous	0.000	233.070	0.004	73.901	Gg	0.000	0.006	99.957	
1A2gviii	Peat	0.002	233.070	0.004	73.901	Gg	0.000	0.005	99.963	
1A4ci	Liquid	0.044	233.070	0.017	73.901	Gg	0.000	0.004	99.967	
3B4d		0.004	233.070	0.004	73.901	Gg	0.000	0.004	99.971	
2A1		0.054	233.070	0.020	73.901	Gg	0.000	0.004	99.975	
1A2e	Solid	0.007	233.070	0.000	73.901	Gg	0.000	0.003	99.978	
1A2f	Solid	0.009	233.070	0.001	73.901	Gg	0.000	0.003	99.981	
2C2		0.000	233.070	0.002	73.901	Gg	0.000	0.003	99.983	
1A4ai	Gaseous	0.003	233.070	0.002	73.901	Gg	0.000	0.002	99.985	
1A2e	Liquid	0.005	233.070	0.000	73.901	Gg	0.000	0.002	99.987	
1A2f	Liquid	0.005	233.070	0.002	73.901	Gg	0.000	0.001	99.989	
1A2e	Peat	0.012	233.070	0.005	73.901	Gg	0.000	0.001	99.990	
1A2c	Other	0.003	233.070	0.000	73.901	Gg	0.000	0.001	99.992	
1A2a	Liquid	0.003	233.070	0.000	73.901	Gg	0.000	0.001	99.993	
1A1b	Biomass	0.000	233.070	0.001	73.901	Gg	0.000	0.001	99.994	
1A2b	Liquid	0.001	233.070	0.001	73.901	Gg	0.000	0.001	99.995	
2C7a		0.000	233.070	0.001	73.901	Gg	0.000	0.001	99.995	
1A2e	Gaseous	0.001	233.070	0.001	73.901	Gg	0.000	0.001	99.996	
1A4ci	Gaseous	0.002	233.070	0.000	73.901	Gg	0.000	0.001	99.997	
1A2a	Biomass	0.000	233.070	0.000	73.901	Gg	0.000	0.001	99.998	
1A4bi	Gaseous	0.003	233.070	0.001	73.901	Gg	0.000	0.000	99.998	
1A2f	Gaseous	0.003	233.070	0.001	73.901	Gg	0.000	0.000	99.999	
1A3aii(i)	Liquid	0.056	233.070	0.018	73.901	Gg	0.000	0.000	99.999	
1A2d	Peat	0.018	233.070	0.006	73.901	Gg	0.000	0.000	99.999	
1A2c	Liquid	0.004	233.070	0.001	73.901	Gg	0.000	0.000	100	
1A1b	Gaseous	0.007	233.070	0.002	73.901	Gg	0.000	0.000	100	
1A2b	Solid	0.000	233.070	0.000	73.901	Gg	0.000	0.000	100	
1A4bi	Other	0.000	233.070	0.000	73.901	Gg	0.000	0.000	100	
1A3ei	Gaseous	0.000	233.070	0.000	73.901	Gg	0.000	0.000	100	
1A2c	Biomass	0.002	233.070	0.001	73.901	Gg	0.000	0.000	100	
1A1b	Solid	0.000	233.070	0.000	73.901	Gg	0.000	0.000	100	
1A2b	Gaseous	0.000	233.070	0.000	73.901	Gg	0.000	0.000	100	

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NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Solid	50.545	249.475	1.898	17.758	Gg	0.007	11.396	11.396	Yes
2H1		23.466	249.475	0.569	17.758	Gg	0.004	7.386	18.781	Yes
1A2d	Liquid	19.440	249.475	0.319	17.758	Gg	0.004	7.139	25.920	Yes
1A2b	Solid	4.034	249.475	1.334	17.758	Gg	0.004	7.023	32.943	Yes
1A1a	Liquid	16.678	249.475	0.272	17.758	Gg	0.004	6.138	39.081	Yes

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Biomass	0.587	249.475	0.769	17.758	Gg	0.003	4.874	43.955	Yes
2C1		2.867	249.475	0.909	17.758	Gg	0.003	4.726	48.681	Yes
1A2b	Liquid	4.045	249.475	0.950	17.758	Gg	0.003	4.437	53.119	Yes
1A2c	Liquid	4.948	249.475	0.998	17.758	Gg	0.003	4.333	57.452	Yes
1A1a	Peat	8.877	249.475	1.265	17.758	Gg	0.003	4.248	61.700	Yes
1B1b		0.795	249.475	0.557	17.758	Gg	0.002	3.356	65.055	Yes
1A2d	Solid	6.141	249.475	0.001	17.758	Gg	0.002	2.923	67.978	Yes
1A5a	Biomass	0.008	249.475	0.362	17.758	Gg	0.001	2.422	70.400	Yes
1A2gviii	Liquid	4.935	249.475	0.037	17.758	Gg	0.001	2.105	72.506	Yes
1A4ai	Liquid	10.103	249.475	1.023	17.758	Gg	0.001	2.035	74.541	Yes
1A4ci	Peat	0.072	249.475	0.298	17.758	Gg	0.001	1.967	76.508	Yes
1A2d	Peat	5.876	249.475	0.134	17.758	Gg	0.001	1.909	78.417	Yes
1A2d	Biomass	6.427	249.475	0.730	17.758	Gg	0.001	1.828	80.245	Yes
1A4bi	Biomass	0.206	249.475	0.224	17.758	Gg	0.001	1.405	81.649	
1A2e	Liquid	3.245	249.475	0.032	17.758	Gg	0.001	1.333	82.983	
1A2a	Solid	7.266	249.475	0.325	17.758	Gg	0.001	1.288	84.271	
1A4bi	Liquid	4.226	249.475	0.110	17.758	Gg	0.001	1.282	85.553	
1A3biii	Diesel oil	2.738	249.475	0.011	17.758	Gg	0.001	1.233	86.786	
1A2f	Liquid	1.827	249.475	0.267	17.758	Gg	0.001	0.919	87.705	
1A2a	Liquid	1.958	249.475	0.008	17.758	Gg	0.001	0.881	88.585	
1A2gviii	Biomass	0.349	249.475	0.151	17.758	Gg	0.001	0.848	89.433	
1A1a	Other	0.027	249.475	0.127	17.758	Gg	0.001	0.837	90.270	
1A5a	Liquid	5.958	249.475	0.301	17.758	Gg	0.000	0.824	91.094	
2B10a		13.894	249.475	1.102	17.758	Gg	0.000	0.760	91.855	
2C7a		0.000	249.475	0.110	17.758	Gg	0.000	0.736	92.591	
1A5a	Gaseous	0.000	249.475	0.098	17.758	Gg	0.000	0.658	93.249	
1A2e	Peat	0.230	249.475	0.101	17.758	Gg	0.000	0.564	93.813	
2C7b		0.004	249.475	0.068	17.758	Gg	0.000	0.453	94.266	
1A4cii	Liquid	0.986	249.475	0.003	17.758	Gg	0.000	0.452	94.718	
1A2gvii	Liquid	1.003	249.475	0.004	17.758	Gg	0.000	0.450	95.168	
1A3dii	Liquid	1.650	249.475	0.052	17.758	Gg	0.000	0.442	95.610	
1A3bi	Diesel oil	0.909	249.475	0.006	17.758	Gg	0.000	0.391	96.001	
1A2e	Solid	0.783	249.475	0.000	17.758	Gg	0.000	0.374	96.375	
1A1b	Gaseous	0.001	249.475	0.052	17.758	Gg	0.000	0.348	96.722	
1A3bi	Gasoline	0.860	249.475	0.014	17.758	Gg	0.000	0.315	97.037	
1A3bii	Diesel oil	0.705	249.475	0.003	17.758	Gg	0.000	0.313	97.351	
1A3ai(i)	Liquid	0.021	249.475	0.045	17.758	Gg	0.000	0.289	97.639	
1A2e	Biomass	0.031	249.475	0.041	17.758	Gg	0.000	0.258	97.897	
1A2c	Other	0.044	249.475	0.039	17.758	Gg	0.000	0.240	98.137	
1A1b	Solid	0.467	249.475	0.000	17.758	Gg	0.000	0.222	98.360	
1A3c	Liquid	0.438	249.475	0.000	17.758	Gg	0.000	0.208	98.567	
1A4aii	Liquid	0.409	249.475	0.001	17.758	Gg	0.000	0.188	98.755	
1A4ci	Biomass	0.033	249.475	0.030	17.758	Gg	0.000	0.186	98.941	
1A2gviii	Peat	0.019	249.475	0.023	17.758	Gg	0.000	0.148	99.088	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4ai	Peat	0.016	249.475	0.018	17.758	Gg	0.000	0.112	99.200	
1A4ai	Biomass	0.010	249.475	0.016	17.758	Gg	0.000	0.103	99.303	
1A4ciii	Liquid	0.195	249.475	0.000	17.758	Gg	0.000	0.090	99.393	
1A2f	Other	0.033	249.475	0.015	17.758	Gg	0.000	0.088	99.481	
1A4ci	Liquid	3.231	249.475	0.221	17.758	Gg	0.000	0.062	99.543	
1A3aii(i)	Liquid	0.021	249.475	0.009	17.758	Gg	0.000	0.051	99.594	
2L		0.000	249.475	0.007	17.758	Gg	0.000	0.048	99.641	
1A2gviii	Gaseous	0.000	249.475	0.007	17.758	Gg	0.000	0.047	99.688	
1A1b	Liquid	21.319	249.475	1.511	17.758	Gg	0.000	0.045	99.733	
2D3i		0.089	249.475	0.000	17.758	Gg	0.000	0.041	99.774	
1A2d	Gaseous	0.201	249.475	0.008	17.758	Gg	0.000	0.040	99.815	
2G		0.001	249.475	0.005	17.758	Gg	0.000	0.030	99.845	
1A2gviii	Other	0.307	249.475	0.018	17.758	Gg	0.000	0.024	99.869	
1A2f	Biomass	0.000	249.475	0.003	17.758	Gg	0.000	0.017	99.886	
1A2c	Biomass	0.240	249.475	0.020	17.758	Gg	0.000	0.017	99.903	
1A2d	Other	0.390	249.475	0.030	17.758	Gg	0.000	0.016	99.919	
1A3bii	Gasoline	0.032	249.475	0.000	17.758	Gg	0.000	0.015	99.934	
1A2f	Solid	1.111	249.475	0.077	17.758	Gg	0.000	0.015	99.948	
1A4bii	Liquid	0.032	249.475	0.001	17.758	Gg	0.000	0.011	99.959	
2C2		0.000	249.475	0.002	17.758	Gg	0.000	0.010	99.969	
1A1a	Gaseous	0.002	249.475	0.001	17.758	Gg	0.000	0.007	99.976	
1A2a	Gaseous	0.000	249.475	0.001	17.758	Gg	0.000	0.007	99.983	
1A2f	Gaseous	0.064	249.475	0.005	17.758	Gg	0.000	0.004	99.988	
1A4bi	Peat	0.117	249.475	0.008	17.758	Gg	0.000	0.004	99.992	
1A2c	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.003	99.995	
1A2a	Biomass	0.000	249.475	0.000	17.758	Gg	0.000	0.001	99.996	
1A1b	Biomass	0.000	249.475	0.000	17.758	Gg	0.000	0.001	99.997	
2D3g		0.002	249.475	0.000	17.758	Gg	0.000	0.001	99.998	
1A3biv	Gasoline	0.007	249.475	0.000	17.758	Gg	0.000	0.001	99.998	
1A3biii	Liquid	0.000	249.475	0.000	17.758	Gg	0.000	0.000	99.999	
1A3bi	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	99.999	
1A3biii	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A4bi	Other	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A4ai	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A2e	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A4bi	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
2C7c		0.001	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A4ci	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A3ei	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	
1A2b	Gaseous	0.000	249.475	0.000	17.758	Gg	0.000	0.000	100	

NH3

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
3B3		4.182	41.347	1.623	30.213	Gg	0.035	12.414	12.414	Yes
3Da2a		11.254	41.347	6.838	30.213	Gg	0.034	12.006	24.419	Yes
3Da1		6.311	41.347	3.443	30.213	Gg	0.028	10.119	34.538	Yes
3B1a		5.709	41.347	5.331	30.213	Gg	0.028	10.041	44.579	Yes
3B1b		5.208	41.347	4.873	30.213	Gg	0.026	9.248	53.826	Yes
3B4h		1.873	41.347	0.577	30.213	Gg	0.019	6.862	60.688	Yes
1A3bi	Gasoline	0.227	41.347	0.725	30.213	Gg	0.014	4.844	65.532	Yes
3B4gii		0.204	41.347	0.688	30.213	Gg	0.013	4.668	70.199	Yes
3Da2c		0.167	41.347	0.454	30.213	Gg	0.008	2.874	73.074	Yes
6A		0.380	41.347	0.604	30.213	Gg	0.008	2.830	75.903	Yes
1A4bi	Biomass	0.907	41.347	0.963	30.213	Gg	0.007	2.599	78.502	Yes
3Da3		1.728	41.347	0.971	30.213	Gg	0.007	2.527	81.029	Yes
3Da4		0.200	41.347	0.411	30.213	Gg	0.006	2.293	83.322	
2H1		0.560	41.347	0.151	30.213	Gg	0.006	2.240	85.562	
1A1a		0.001	41.347	0.259	30.213	Gg	0.006	2.235	87.797	
3B4e		0.254	41.347	0.397	30.213	Gg	0.005	1.831	89.629	
5B2		0.003	41.347	0.213	30.213	Gg	0.005	1.830	91.458	
5D1		0.275	41.347	0.372	30.213	Gg	0.004	1.477	92.935	
2B10a		0.582	41.347	0.282	30.213	Gg	0.003	1.238	94.174	
3B4giii		0.013	41.347	0.093	30.213	Gg	0.002	0.725	94.899	
2C7b		0.100	41.347	0.005	30.213	Gg	0.002	0.590	95.489	
3B4gi		0.535	41.347	0.328	30.213	Gg	0.002	0.546	96.035	
5B1		0.035	41.347	0.088	30.213	Gg	0.002	0.542	96.577	
2D3i		0.097	41.347	0.124	30.213	Gg	0.001	0.465	97.042	
3B4giv		0.104	41.347	0.023	30.213	Gg	0.001	0.460	97.501	
1A3bi	Diesel oil	0.005	41.347	0.050	30.213	Gg	0.001	0.401	97.903	
2D3e		0.061	41.347	0.004	30.213	Gg	0.001	0.351	98.253	
3Da2b		0.043	41.347	0.070	30.213	Gg	0.001	0.334	98.587	
2C1		0.003	41.347	0.036	30.213	Gg	0.001	0.293	98.880	
3B2		0.070	41.347	0.080	30.213	Gg	0.001	0.254	99.134	
1A3bii	Diesel oil	0.003	41.347	0.022	30.213	Gg	0.000	0.169	99.303	
1A3biii	Diesel oil	0.010	41.347	0.026	30.213	Gg	0.000	0.161	99.464	
2D3g		0.024	41.347	0.002	30.213	Gg	0.000	0.135	99.600	
2L		0.020	41.347	0.029	30.213	Gg	0.000	0.123	99.723	
2G		0.037	41.347	0.016	30.213	Gg	0.000	0.096	99.819	
1A3bi	Gaseous	0.000	41.347	0.006	30.213	Gg	0.000	0.054	99.874	
1A2gviii		0.000	41.347	0.004	30.213	Gg	0.000	0.033	99.907	
1A4ai	Biomass	0.003	41.347	0.005	30.213	Gg	0.000	0.026	99.933	
1B1b		0.002	41.347	0.003	30.213	Gg	0.000	0.014	99.947	
1A3biii	Gaseous	0.000	41.347	0.002	30.213	Gg	0.000	0.014	99.960	
1A2gvii	Liquid	0.002	41.347	0.003	30.213	Gg	0.000	0.010	99.971	
1A3biv	Gasoline	0.001	41.347	0.002	30.213	Gg	0.000	0.010	99.981	
3B4d		0.006	41.347	0.005	30.213	Gg	0.000	0.006	99.987	
1A4ci	Biomass	0.011	41.347	0.009	30.213	Gg	0.000	0.004	99.991	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		0.000	41.347	0.000	30.213	Gg	0.000	0.002	99.993	
1A3c	Liquid	0.000	41.347	0.000	30.213	Gg	0.000	0.002	99.994	
1A4cii	Liquid	0.002	41.347	0.002	30.213	Gg	0.000	0.001	99.996	
1A4bii	Liquid	0.000	41.347	0.000	30.213	Gg	0.000	0.001	99.997	
1A4ciii	Liquid	0.000	41.347	0.000	30.213	Gg	0.000	0.001	99.998	
1A3biii	Liquid	0.000	41.347	0.000	30.213	Gg	0.000	0.001	99.998	
1A3bii	Gasoline	0.002	41.347	0.001	30.213	Gg	0.000	0.001	99.999	
1A3dii	Liquid	0.001	41.347	0.001	30.213	Gg	0.000	0.000	99.999	
1A4aii	Liquid	0.001	41.347	0.001	30.213	Gg	0.000	0.000	100	
1A5a	Liquid	0.000	41.347	0.000	30.213	Gg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	41.347	0.000	30.213	Gg	0.000	0.000	100	

PM2.5

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Biomass	7.392	47.346	6.981	12.624	Gg	0.106	36.089	36.089	Yes
1A2d	Biomass	9.011	47.346	0.585	12.624	Gg	0.038	13.089	49.178	Yes
1A3biii	Diesel oil	4.287	47.346	0.117	12.624	Gg	0.022	7.386	56.565	Yes
2C1		3.152	47.346	0.194	12.624	Gg	0.014	4.658	61.222	Yes
1A3bi	Diesel oil	2.366	47.346	0.167	12.624	Gg	0.010	3.341	64.564	Yes
1A3bvi		0.542	47.346	0.599	12.624	Gg	0.010	3.271	67.835	Yes
1A3bvii		0.408	47.346	0.454	12.624	Gg	0.007	2.486	70.320	Yes
2H1		1.455	47.346	0.078	12.624	Gg	0.007	2.236	72.556	Yes
2H2		0.303	47.346	0.385	12.624	Gg	0.006	2.191	74.747	Yes
1A4cii	Liquid	1.620	47.346	0.128	12.624	Gg	0.006	2.187	76.934	Yes
1A1a	Solid	1.103	47.346	0.038	12.624	Gg	0.005	1.848	78.782	Yes
1A2gvii	Liquid	1.422	47.346	0.177	12.624	Gg	0.004	1.455	80.237	Yes
1A5a	Biomass	0.002	47.346	0.181	12.624	Gg	0.004	1.299	81.536	
1A1a	Liquid	0.704	47.346	0.019	12.624	Gg	0.004	1.218	82.753	
1A4aii	Liquid	0.746	47.346	0.058	12.624	Gg	0.003	1.016	83.769	
1A2f	Solid	0.526	47.346	0.000	12.624	Gg	0.003	1.009	84.779	
3Dc		0.268	47.346	0.206	12.624	Gg	0.003	0.966	85.745	
2A5b		0.504	47.346	0.001	12.624	Gg	0.003	0.962	86.707	
1A2d	Liquid	0.652	47.346	0.045	12.624	Gg	0.003	0.931	87.638	
1A2gviii	Liquid	0.464	47.346	0.003	12.624	Gg	0.003	0.868	88.506	
1B1c		1.085	47.346	0.175	12.624	Gg	0.002	0.820	89.326	
1A3bii	Diesel oil	1.074	47.346	0.205	12.624	Gg	0.002	0.583	89.909	
1A1a	Peat	0.467	47.346	0.047	12.624	Gg	0.002	0.558	90.467	
1A3dii	Liquid	0.544	47.346	0.221	12.624	Gg	0.002	0.550	91.017	
2D3b		0.087	47.346	0.093	12.624	Gg	0.001	0.500	91.517	
1A4ai	Liquid	0.506	47.346	0.082	12.624	Gg	0.001	0.381	91.898	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4ci	Biomass	0.101	47.346	0.079	12.624	Gg	0.001	0.374	92.272	
1B2aiv		0.189	47.346	0.000	12.624	Gg	0.001	0.364	92.635	
2C7c		0.201	47.346	0.007	12.624	Gg	0.001	0.332	92.967	
1A4bi	Liquid	0.219	47.346	0.012	12.624	Gg	0.001	0.331	93.298	
1A4ai	Biomass	0.030	47.346	0.050	12.624	Gg	0.001	0.304	93.602	
1A2f	Liquid	0.219	47.346	0.017	12.624	Gg	0.001	0.301	93.903	
1A4bi	Peat	0.208	47.346	0.014	12.624	Gg	0.001	0.300	94.203	
1A4bii	Liquid	0.242	47.346	0.106	12.624	Gg	0.001	0.300	94.503	
1A5a	Liquid	0.308	47.346	0.041	12.624	Gg	0.001	0.295	94.798	
2G		0.240	47.346	0.103	12.624	Gg	0.001	0.282	95.081	
2C2		0.014	47.346	0.042	12.624	Gg	0.001	0.277	95.358	
1A2d	Peat	0.154	47.346	0.004	12.624	Gg	0.001	0.269	95.627	
1A2e	Liquid	0.143	47.346	0.002	12.624	Gg	0.001	0.261	95.888	
2D3i		0.064	47.346	0.050	12.624	Gg	0.001	0.237	96.125	
1A2c	Liquid	0.169	47.346	0.012	12.624	Gg	0.001	0.235	96.360	
2A3		0.124	47.346	0.001	12.624	Gg	0.001	0.233	96.593	
2I		0.131	47.346	0.003	12.624	Gg	0.001	0.230	96.823	
1A4ci	Liquid	0.167	47.346	0.013	12.624	Gg	0.001	0.230	97.053	
1A2gviii	Biomass	0.211	47.346	0.088	12.624	Gg	0.001	0.229	97.282	
1A4ci	Peat	0.008	47.346	0.032	12.624	Gg	0.001	0.213	97.495	
1A2d	Solid	0.110	47.346	0.000	12.624	Gg	0.001	0.210	97.706	
3B1b		0.079	47.346	0.047	12.624	Gg	0.001	0.185	97.891	
1A3bi	Gasoline	0.174	47.346	0.023	12.624	Gg	0.000	0.168	98.059	
1A2a	Solid	0.089	47.346	0.001	12.624	Gg	0.000	0.163	98.222	
5E		0.378	47.346	0.121	12.624	Gg	0.000	0.147	98.369	
1A2a	Liquid	0.069	47.346	0.000	12.624	Gg	0.000	0.131	98.500	
2A5a		0.068	47.346	0.000	12.624	Gg	0.000	0.130	98.629	
1A4ciii	Liquid	0.069	47.346	0.036	12.624	Gg	0.000	0.130	98.759	
1A1b	Liquid	0.096	47.346	0.010	12.624	Gg	0.000	0.112	98.871	
3B1a		0.132	47.346	0.051	12.624	Gg	0.000	0.111	98.982	
1B1b		0.003	47.346	0.014	12.624	Gg	0.000	0.092	99.073	
3B4gii		0.003	47.346	0.010	12.624	Gg	0.000	0.069	99.142	
1A2b	Liquid	0.038	47.346	0.002	12.624	Gg	0.000	0.057	99.200	
2C6		0.028	47.346	0.000	12.624	Gg	0.000	0.054	99.254	
3B4gi		0.014	47.346	0.011	12.624	Gg	0.000	0.053	99.307	
1A3biv	Gasoline	0.057	47.346	0.008	12.624	Gg	0.000	0.050	99.357	
2A2		0.026	47.346	0.000	12.624	Gg	0.000	0.049	99.406	
2C7a		0.026	47.346	0.000	12.624	Gg	0.000	0.046	99.452	
1A3ai(i)	Liquid	0.003	47.346	0.007	12.624	Gg	0.000	0.042	99.494	
1A2e	Peat	0.023	47.346	0.001	12.624	Gg	0.000	0.039	99.533	
3B4e		0.004	47.346	0.006	12.624	Gg	0.000	0.034	99.567	
1A2d	Other	0.005	47.346	0.006	12.624	Gg	0.000	0.033	99.600	
1A3c	Liquid	0.084	47.346	0.018	12.624	Gg	0.000	0.033	99.633	
2D3g		0.016	47.346	0.000	12.624	Gg	0.000	0.030	99.662	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2A5c		0.049	47.346	0.017	12.624	Gg	0.000	0.028	99.691	
1A2b	Solid	0.014	47.346	0.000	12.624	Gg	0.000	0.025	99.716	
1A2c	Biomass	0.016	47.346	0.008	12.624	Gg	0.000	0.025	99.741	
2D3d		0.000	47.346	0.003	12.624	Gg	0.000	0.024	99.765	
1A2e	Solid	0.013	47.346	0.000	12.624	Gg	0.000	0.024	99.789	
2L		0.054	47.346	0.011	12.624	Gg	0.000	0.023	99.812	
3B4giii		0.001	47.346	0.003	12.624	Gg	0.000	0.021	99.834	
1A2gviii	Other	0.009	47.346	0.000	12.624	Gg	0.000	0.016	99.850	
2B10a		0.738	47.346	0.195	12.624	Gg	0.000	0.016	99.866	
1A1a	Biomass	0.265	47.346	0.069	12.624	Gg	0.000	0.014	99.880	
1A1a	Other	0.001	47.346	0.002	12.624	Gg	0.000	0.011	99.891	
1A3bii	Gasoline	0.006	47.346	0.000	12.624	Gg	0.000	0.010	99.901	
1A3dii	Gaseous	0.000	47.346	0.001	12.624	Gg	0.000	0.010	99.911	
1A4ai	Peat	0.002	47.346	0.002	12.624	Gg	0.000	0.009	99.921	
5C1bv		0.000	47.346	0.001	12.624	Gg	0.000	0.009	99.929	
2B10b		0.001	47.346	0.001	12.624	Gg	0.000	0.008	99.938	
1A2f	Other	0.000	47.346	0.001	12.624	Gg	0.000	0.008	99.946	
1B2av		0.005	47.346	0.000	12.624	Gg	0.000	0.008	99.953	
1A3biv	Diesel oil	0.000	47.346	0.001	12.624	Gg	0.000	0.008	99.961	
1A3aii(i)	Liquid	0.002	47.346	0.001	12.624	Gg	0.000	0.006	99.968	
3B3		0.004	47.346	0.002	12.624	Gg	0.000	0.005	99.973	
3B2		0.001	47.346	0.001	12.624	Gg	0.000	0.004	99.977	
1A2gviii	Peat	0.001	47.346	0.001	12.624	Gg	0.000	0.004	99.981	
3B4giv		0.032	47.346	0.008	12.624	Gg	0.000	0.003	99.984	
2C7d		0.001	47.346	0.001	12.624	Gg	0.000	0.003	99.987	
3B4h		0.013	47.346	0.003	12.624	Gg	0.000	0.003	99.989	
1A3bi	Gaseous	0.000	47.346	0.000	12.624	Gg	0.000	0.003	99.992	
2C3		0.001	47.346	0.000	12.624	Gg	0.000	0.002	99.994	
1A2c	Other	0.001	47.346	0.000	12.624	Gg	0.000	0.002	99.996	
1A2e	Biomass	0.011	47.346	0.003	12.624	Gg	0.000	0.002	99.997	
1A3biii	Gaseous	0.000	47.346	0.000	12.624	Gg	0.000	0.001	99.998	
1A1b	Solid	0.000	47.346	0.000	12.624	Gg	0.000	0.001	99.999	
1A4bi	Other	0.000	47.346	0.000	12.624	Gg	0.000	0.000	100	
5A		0.000	47.346	0.000	12.624	Gg	0.000	0.000	100	
3B4d		0.000	47.346	0.000	12.624	Gg	0.000	0.000	100	
1A2a	Biomass	0.000	47.346	0.000	12.624	Gg	0.000	0.000	100	
1A2f	Biomass	0.000	47.346	0.000	12.624	Gg	0.000	0.000	100	

PM10

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Biomass	7.630	74.187	7.206	24.812	Gg	0.063	17.588	17.588	Yes
1A3bvii		4.773	74.187	5.356	24.812	Gg	0.051	14.206	31.794	Yes
1A2d	Biomass	11.986	74.187	1.017	24.812	Gg	0.040	11.305	43.099	Yes
3Dc		4.897	74.187	3.711	24.812	Gg	0.028	7.833	50.932	Yes
1A1a	Solid	4.794	74.187	0.117	24.812	Gg	0.020	5.615	56.547	Yes
1A3biii	Diesel oil	4.287	74.187	0.117	24.812	Gg	0.018	4.974	61.521	Yes
2C1		4.059	74.187	0.215	24.812	Gg	0.015	4.318	65.839	Yes
1A5a	Biomass	0.012	74.187	0.941	24.812	Gg	0.013	3.540	69.379	Yes
1A3bvi		0.982	74.187	1.087	24.812	Gg	0.010	2.865	72.244	Yes
1A3bi	Diesel oil	2.366	74.187	0.167	24.812	Gg	0.008	2.359	74.604	Yes
2H1		2.011	74.187	0.124	24.812	Gg	0.007	2.071	76.675	Yes
1A4cii	Liquid	1.620	74.187	0.128	24.812	Gg	0.006	1.562	78.237	Yes
1A1a	Liquid	1.057	74.187	0.024	24.812	Gg	0.004	1.246	79.484	Yes
1A2f	Solid	0.971	74.187	0.002	24.812	Gg	0.004	1.218	80.701	Yes
1A2gvii	Liquid	1.422	74.187	0.177	24.812	Gg	0.004	1.128	81.829	
2H2		0.320	74.187	0.395	24.812	Gg	0.004	1.086	82.915	
1A2d	Liquid	0.907	74.187	0.024	24.812	Gg	0.004	1.055	83.970	
1B1c		1.544	74.187	0.250	24.812	Gg	0.004	1.008	84.978	
2A5b		0.796	74.187	0.006	24.812	Gg	0.004	0.982	85.960	
1A2gviii	Liquid	0.737	74.187	0.005	24.812	Gg	0.003	0.911	86.871	
1A1a	Peat	1.337	74.187	0.221	24.812	Gg	0.003	0.856	87.727	
1A4aii	Liquid	0.746	74.187	0.058	24.812	Gg	0.003	0.724	88.452	
1A2d	Solid	0.493	74.187	0.000	24.812	Gg	0.002	0.622	89.074	
1A3bii	Diesel oil	1.074	74.187	0.205	24.812	Gg	0.002	0.581	89.655	
1A4ci	Peat	0.042	74.187	0.165	24.812	Gg	0.002	0.572	90.227	
1A2a	Solid	0.398	74.187	0.005	24.812	Gg	0.002	0.485	90.712	
2C7c		0.408	74.187	0.009	24.812	Gg	0.002	0.483	91.195	
1A4ai	Liquid	0.814	74.187	0.145	24.812	Gg	0.002	0.480	91.675	
1A5a	Liquid	0.485	74.187	0.053	24.812	Gg	0.001	0.411	92.086	
1A1a	Biomass	0.626	74.187	0.318	24.812	Gg	0.001	0.409	92.495	
1B2aiv		0.312	74.187	0.000	24.812	Gg	0.001	0.394	92.889	
1A2d	Peat	0.326	74.187	0.009	24.812	Gg	0.001	0.379	93.268	
1A4bi	Liquid	0.336	74.187	0.016	24.812	Gg	0.001	0.364	93.632	
3B4gii		0.031	74.187	0.104	24.812	Gg	0.001	0.354	93.986	
3B4gi		0.189	74.187	0.149	24.812	Gg	0.001	0.325	94.310	
1A2f	Liquid	0.358	74.187	0.034	24.812	Gg	0.001	0.324	94.635	
2A5a		0.230	74.187	0.002	24.812	Gg	0.001	0.283	94.918	
2I		0.271	74.187	0.017	24.812	Gg	0.001	0.277	95.195	
1A2e	Liquid	0.221	74.187	0.004	24.812	Gg	0.001	0.266	95.461	
2D3b		0.095	74.187	0.101	24.812	Gg	0.001	0.262	95.723	
1A4ci	Liquid	0.269	74.187	0.026	24.812	Gg	0.001	0.242	95.965	
1A4bi	Peat	0.234	74.187	0.015	24.812	Gg	0.001	0.237	96.202	
1A2c	Liquid	0.267	74.187	0.029	24.812	Gg	0.001	0.227	96.429	
1A1b	Liquid	0.223	74.187	0.018	24.812	Gg	0.001	0.216	96.645	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C2		0.020	74.187	0.060	24.812	Gg	0.001	0.201	96.846	
1A4ci	Biomass	0.104	74.187	0.086	24.812	Gg	0.001	0.192	97.038	
1A2gviii	Biomass	0.678	74.187	0.178	24.812	Gg	0.001	0.184	97.223	
2C6		0.146	74.187	0.000	24.812	Gg	0.001	0.184	97.406	
2A3		0.142	74.187	0.001	24.812	Gg	0.001	0.177	97.583	
1A4ai	Biomass	0.032	74.187	0.052	24.812	Gg	0.001	0.155	97.739	
1A2a	Liquid	0.117	74.187	0.000	24.812	Gg	0.001	0.147	97.885	
1A3dii	Liquid	0.565	74.187	0.228	24.812	Gg	0.001	0.147	98.032	
1A3bi	Gasoline	0.174	74.187	0.023	24.812	Gg	0.000	0.133	98.165	
1A2e	Peat	0.111	74.187	0.004	24.812	Gg	0.000	0.125	98.290	
3B1b		0.122	74.187	0.072	24.812	Gg	0.000	0.118	98.408	
1B1b		0.008	74.187	0.033	24.812	Gg	0.000	0.113	98.521	
2B10a		1.156	74.187	0.357	24.812	Gg	0.000	0.112	98.633	
1A4bii	Liquid	0.242	74.187	0.106	24.812	Gg	0.000	0.095	98.728	
2G		0.240	74.187	0.103	24.812	Gg	0.000	0.087	98.815	
2A2		0.072	74.187	0.001	24.812	Gg	0.000	0.086	98.902	
1A2b	Solid	0.072	74.187	0.001	24.812	Gg	0.000	0.086	98.988	
1A2e	Solid	0.065	74.187	0.000	24.812	Gg	0.000	0.082	99.070	
3B4giv		0.227	74.187	0.058	24.812	Gg	0.000	0.069	99.140	
3B4giii		0.003	74.187	0.017	24.812	Gg	0.000	0.061	99.201	
1A2b	Liquid	0.059	74.187	0.004	24.812	Gg	0.000	0.060	99.261	
1A2gviii	Other	0.048	74.187	0.001	24.812	Gg	0.000	0.057	99.318	
1A4ciii	Liquid	0.077	74.187	0.040	24.812	Gg	0.000	0.056	99.374	
1A2d	Other	0.011	74.187	0.015	24.812	Gg	0.000	0.044	99.418	
3B3		0.086	74.187	0.040	24.812	Gg	0.000	0.043	99.461	
1A3biv	Gasoline	0.057	74.187	0.008	24.812	Gg	0.000	0.041	99.502	
1A3c	Liquid	0.089	74.187	0.019	24.812	Gg	0.000	0.041	99.543	
2C7a		0.034	74.187	0.001	24.812	Gg	0.000	0.040	99.583	
3B1a		0.203	74.187	0.078	24.812	Gg	0.000	0.037	99.620	
2D3i		0.187	74.187	0.053	24.812	Gg	0.000	0.037	99.657	
2L		0.081	74.187	0.018	24.812	Gg	0.000	0.036	99.693	
2B10b		0.007	74.187	0.011	24.812	Gg	0.000	0.033	99.726	
3B4e		0.006	74.187	0.009	24.812	Gg	0.000	0.026	99.753	
1A1a	Other	0.002	74.187	0.007	24.812	Gg	0.000	0.026	99.778	
1A4ai	Peat	0.009	74.187	0.009	24.812	Gg	0.000	0.023	99.802	
1A3ai(i)	Liquid	0.003	74.187	0.007	24.812	Gg	0.000	0.021	99.823	
2D3g		0.017	74.187	0.000	24.812	Gg	0.000	0.021	99.843	
2D3d		0.000	74.187	0.005	24.812	Gg	0.000	0.020	99.864	
5E		0.378	74.187	0.121	24.812	Gg	0.000	0.020	99.884	
2A5c		0.477	74.187	0.163	24.812	Gg	0.000	0.013	99.897	
2C7d		0.006	74.187	0.006	24.812	Gg	0.000	0.013	99.910	
1A2f	Other	0.000	74.187	0.003	24.812	Gg	0.000	0.010	99.920	
3B4h		0.027	74.187	0.006	24.812	Gg	0.000	0.010	99.930	
1A2e	Biomass	0.040	74.187	0.011	24.812	Gg	0.000	0.008	99.938	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2gviii	Peat	0.005	74.187	0.004	24.812	Gg	0.000	0.008	99.947	
1A3bii	Gasoline	0.006	74.187	0.000	24.812	Gg	0.000	0.007	99.953	
1A2c	Other	0.006	74.187	0.000	24.812	Gg	0.000	0.007	99.960	
3B2		0.002	74.187	0.002	24.812	Gg	0.000	0.006	99.966	
1A3dii	Gaseous	0.000	74.187	0.002	24.812	Gg	0.000	0.006	99.972	
1B2av		0.005	74.187	0.000	24.812	Gg	0.000	0.005	99.978	
5C1bv		0.000	74.187	0.001	24.812	Gg	0.000	0.005	99.982	
1A3biv	Diesel oil	0.000	74.187	0.001	24.812	Gg	0.000	0.004	99.986	
1A3aii(i)	Liquid	0.002	74.187	0.001	24.812	Gg	0.000	0.003	99.989	
2C3		0.002	74.187	0.001	24.812	Gg	0.000	0.002	99.991	
1A1b	Solid	0.002	74.187	0.000	24.812	Gg	0.000	0.002	99.993	
1A2c	Biomass	0.025	74.187	0.008	24.812	Gg	0.000	0.002	99.995	
1A3bi	Gaseous	0.000	74.187	0.000	24.812	Gg	0.000	0.001	99.996	
1A2a	Biomass	0.000	74.187	0.000	24.812	Gg	0.000	0.001	99.997	
1A2f	Biomass	0.000	74.187	0.000	24.812	Gg	0.000	0.001	99.998	
1A3biii	Gaseous	0.000	74.187	0.000	24.812	Gg	0.000	0.001	100	
5A		0.001	74.187	0.001	24.812	Gg	0.000	0.001	100	
1A4bi	Other	0.000	74.187	0.000	24.812	Gg	0.000	0.000	100	
3B4d		0.000	74.187	0.000	24.812	Gg	0.000	0.000	100	

TSP

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bvii		9.546	98.975	10.712	37.306	Gg	0.072	17.734	17.734	Yes
1A4bi	Biomass	7.948	98.975	7.507	37.306	Gg	0.046	11.245	28.979	Yes
1A2d	Biomass	14.007	98.975	1.142	37.306	Gg	0.042	10.315	39.293	Yes
1A5a	Biomass	0.046	98.975	3.618	37.306	Gg	0.036	8.976	48.270	Yes
1A1a	Solid	7.164	98.975	0.152	37.306	Gg	0.026	6.354	54.624	Yes
3Dc		4.897	98.975	3.711	37.306	Gg	0.019	4.649	59.272	Yes
2C1		5.545	98.975	0.252	37.306	Gg	0.019	4.581	63.853	Yes
1A3biii	Diesel oil	4.287	98.975	0.117	37.306	Gg	0.015	3.735	67.589	Yes
1A3bvi		1.325	98.975	1.464	37.306	Gg	0.010	2.405	69.994	Yes
2H1		2.447	98.975	0.135	37.306	Gg	0.008	1.962	71.956	Yes
1A2f	Solid	1.954	98.975	0.005	37.306	Gg	0.007	1.824	73.780	Yes
1A3bi	Diesel oil	2.366	98.975	0.167	37.306	Gg	0.007	1.807	75.587	Yes
1A4ci	Peat	0.160	98.975	0.635	37.306	Gg	0.006	1.434	77.020	Yes
1B1c		2.363	98.975	0.382	37.306	Gg	0.005	1.268	78.288	Yes
1A2d	Liquid	1.441	98.975	0.046	37.306	Gg	0.005	1.240	79.528	Yes
1A4cii	Liquid	1.620	98.975	0.128	37.306	Gg	0.005	1.202	80.730	Yes
1A1a	Liquid	1.214	98.975	0.037	37.306	Gg	0.004	1.047	81.778	
3B4gi		0.897	98.975	0.708	37.306	Gg	0.004	0.922	82.700	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2A5b		1.014	98.975	0.021	37.306	Gg	0.004	0.901	83.601	
1A2gvii	Liquid	1.422	98.975	0.177	37.306	Gg	0.004	0.895	84.495	
1A2a	Solid	0.941	98.975	0.014	37.306	Gg	0.003	0.849	85.344	
2C7c		0.855	98.975	0.013	37.306	Gg	0.003	0.772	86.116	
1A2gviii	Liquid	0.821	98.975	0.008	37.306	Gg	0.003	0.752	86.868	
1A2gviii	Biomass	1.586	98.975	0.299	37.306	Gg	0.003	0.746	87.613	
2H2		0.329	98.975	0.408	37.306	Gg	0.003	0.709	88.323	
1A2d	Solid	0.715	98.975	0.000	37.306	Gg	0.003	0.672	88.995	
1A4aii	Liquid	0.746	98.975	0.058	37.306	Gg	0.002	0.557	89.551	
2C6		0.562	98.975	0.001	37.306	Gg	0.002	0.526	90.078	
1A3bii	Diesel oil	1.074	98.975	0.205	37.306	Gg	0.002	0.497	90.575	
3B4gii		0.061	98.975	0.208	37.306	Gg	0.002	0.460	91.035	
1A4ai	Liquid	0.994	98.975	0.194	37.306	Gg	0.002	0.450	91.485	
2D3i		0.598	98.975	0.056	37.306	Gg	0.002	0.422	91.908	
1B2aiv		0.442	98.975	0.000	37.306	Gg	0.002	0.415	92.323	
1A1a	Biomass	1.331	98.975	0.666	37.306	Gg	0.002	0.411	92.734	
1A5a	Liquid	0.591	98.975	0.067	37.306	Gg	0.002	0.387	93.121	
1A2d	Peat	0.435	98.975	0.011	37.306	Gg	0.002	0.382	93.503	
2I		0.590	98.975	0.070	37.306	Gg	0.002	0.381	93.883	
2A5a		0.400	98.975	0.004	37.306	Gg	0.001	0.367	94.250	
1A4bi	Liquid	0.425	98.975	0.018	37.306	Gg	0.001	0.355	94.605	
1A1b	Liquid	0.536	98.975	0.067	37.306	Gg	0.001	0.337	94.942	
1A2f	Liquid	0.449	98.975	0.046	37.306	Gg	0.001	0.308	95.251	
2B10a		1.409	98.975	0.410	37.306	Gg	0.001	0.303	95.553	
1A2b	Solid	0.277	98.975	0.005	37.306	Gg	0.001	0.248	95.802	
1A2e	Solid	0.251	98.975	0.000	37.306	Gg	0.001	0.235	96.037	
1A2e	Liquid	0.260	98.975	0.005	37.306	Gg	0.001	0.231	96.268	
2D3b		0.126	98.975	0.135	37.306	Gg	0.001	0.217	96.485	
1A4ci	Liquid	0.329	98.975	0.039	37.306	Gg	0.001	0.213	96.698	
1A4bi	Peat	0.260	98.975	0.017	37.306	Gg	0.001	0.201	96.899	
1A2c	Liquid	0.299	98.975	0.034	37.306	Gg	0.001	0.196	97.095	
1B1b		0.019	98.975	0.078	37.306	Gg	0.001	0.176	97.271	
1A2gviii	Other	0.189	98.975	0.002	37.306	Gg	0.001	0.173	97.444	
3B3		0.518	98.975	0.260	37.306	Gg	0.001	0.162	97.606	
2A2		0.174	98.975	0.003	37.306	Gg	0.001	0.157	97.763	
2C2		0.023	98.975	0.070	37.306	Gg	0.001	0.154	97.916	
2A3		0.158	98.975	0.001	37.306	Gg	0.001	0.147	98.063	
1A2a	Liquid	0.157	98.975	0.001	37.306	Gg	0.001	0.146	98.209	
3B1b		0.264	98.975	0.156	37.306	Gg	0.001	0.140	98.349	
1A1a	Peat	2.295	98.975	0.810	37.306	Gg	0.001	0.137	98.487	
1A4ci	Biomass	0.108	98.975	0.095	37.306	Gg	0.001	0.136	98.623	
1A2e	Peat	0.169	98.975	0.012	37.306	Gg	0.001	0.130	98.752	
1A3bi	Gasoline	0.174	98.975	0.023	37.306	Gg	0.000	0.106	98.858	
1A4ai	Biomass	0.037	98.975	0.054	37.306	Gg	0.000	0.100	98.958	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2A5c		1.217	98.975	0.424	37.306	Gg	0.000	0.087	99.045	
3B4giv		0.234	98.975	0.062	37.306	Gg	0.000	0.067	99.112	
2B10b		0.023	98.975	0.035	37.306	Gg	0.000	0.066	99.177	
1A4ai	Peat	0.034	98.975	0.035	37.306	Gg	0.000	0.055	99.232	
1A2b	Liquid	0.069	98.975	0.004	37.306	Gg	0.000	0.054	99.286	
5E		0.378	98.975	0.121	37.306	Gg	0.000	0.053	99.339	
1A2d	Other	0.017	98.975	0.024	37.306	Gg	0.000	0.044	99.383	
1A1a	Other	0.013	98.975	0.022	37.306	Gg	0.000	0.043	99.426	
3B4giii		0.003	98.975	0.017	37.306	Gg	0.000	0.040	99.466	
1A3c	Liquid	0.094	98.975	0.020	37.306	Gg	0.000	0.038	99.505	
2C7a		0.043	98.975	0.001	37.306	Gg	0.000	0.038	99.543	
1A4bii	Liquid	0.242	98.975	0.106	37.306	Gg	0.000	0.037	99.580	
1A3dii	Liquid	0.565	98.975	0.228	37.306	Gg	0.000	0.037	99.617	
3B4e		0.014	98.975	0.020	37.306	Gg	0.000	0.037	99.654	
1A3biv	Gasoline	0.057	98.975	0.008	37.306	Gg	0.000	0.033	99.687	
1A2e	Biomass	0.074	98.975	0.015	37.306	Gg	0.000	0.033	99.719	
2G		0.240	98.975	0.103	37.306	Gg	0.000	0.032	99.751	
1A4ciii	Liquid	0.077	98.975	0.040	37.306	Gg	0.000	0.029	99.780	
2L		0.093	98.975	0.023	37.306	Gg	0.000	0.028	99.809	
1A2gviii	Peat	0.007	98.975	0.013	37.306	Gg	0.000	0.025	99.834	
1A2c	Other	0.023	98.975	0.000	37.306	Gg	0.000	0.021	99.855	
3B4h		0.060	98.975	0.014	37.306	Gg	0.000	0.021	99.875	
2D3d		0.001	98.975	0.007	37.306	Gg	0.000	0.017	99.892	
2D3g		0.019	98.975	0.000	37.306	Gg	0.000	0.017	99.909	
2C7d		0.012	98.975	0.011	37.306	Gg	0.000	0.016	99.925	
1A3ai(i)	Liquid	0.003	98.975	0.007	37.306	Gg	0.000	0.014	99.938	
3B2		0.005	98.975	0.005	37.306	Gg	0.000	0.009	99.947	
1A2f	Other	0.029	98.975	0.008	37.306	Gg	0.000	0.009	99.956	
3B1a		0.445	98.975	0.171	37.306	Gg	0.000	0.007	99.962	
1A1b	Solid	0.009	98.975	0.001	37.306	Gg	0.000	0.006	99.969	
1A3bii	Gasoline	0.006	98.975	0.000	37.306	Gg	0.000	0.005	99.974	
1A3dii	Gaseous	0.000	98.975	0.002	37.306	Gg	0.000	0.004	99.978	
1B2av		0.005	98.975	0.000	37.306	Gg	0.000	0.004	99.982	
5C1bv		0.000	98.975	0.001	37.306	Gg	0.000	0.003	99.985	
1A3biv	Diesel oil	0.000	98.975	0.001	37.306	Gg	0.000	0.003	99.988	
1A2a	Biomass	0.000	98.975	0.001	37.306	Gg	0.000	0.002	99.990	
1A2f	Biomass	0.001	98.975	0.001	37.306	Gg	0.000	0.002	99.992	
1A2c	Biomass	0.029	98.975	0.010	37.306	Gg	0.000	0.002	99.994	
2C3		0.003	98.975	0.002	37.306	Gg	0.000	0.002	99.996	
1A3aii(i)	Liquid	0.002	98.975	0.001	37.306	Gg	0.000	0.002	99.998	
1A3bi	Gaseous	0.000	98.975	0.000	37.306	Gg	0.000	0.001	99.999	
5A		0.003	98.975	0.001	37.306	Gg	0.000	0.000	99.999	
1A3biii	Gaseous	0.000	98.975	0.000	37.306	Gg	0.000	0.000	100	
3B4d		0.000	98.975	0.000	37.306	Gg	0.000	0.000	100	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Other	0.000	98.975	0.000	37.306	Gg	0.000	0.000	100	

BC

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Biomass	2.260	10.145	2.046	3.055	Gg	0.135	41.337	41.337	Yes
1A3biii	Diesel oil	2.272	10.145	0.073	3.055	Gg	0.060	18.512	59.848	Yes
1A3bi	Diesel oil	1.349	10.145	0.112	3.055	Gg	0.029	8.918	68.766	Yes
1A4cii	Liquid	0.877	10.145	0.055	3.055	Gg	0.021	6.328	75.095	Yes
1A2gvii	Liquid	0.877	10.145	0.108	3.055	Gg	0.015	4.728	79.823	Yes
1A3bvi		0.140	10.145	0.154	3.055	Gg	0.011	3.399	83.222	Yes
1A3bvii		0.079	10.145	0.089	3.055	Gg	0.006	1.970	85.192	
1A4aii	Liquid	0.230	10.145	0.014	3.055	Gg	0.005	1.681	86.873	
1A5a	Biomass	0.000	10.145	0.051	3.055	Gg	0.005	1.533	88.406	
1A1a	Liquid	0.177	10.145	0.004	3.055	Gg	0.005	1.510	89.916	
1A3bii	Diesel oil	0.591	10.145	0.129	3.055	Gg	0.005	1.472	91.388	
1A2gviii	Liquid	0.140	10.145	0.001	3.055	Gg	0.004	1.248	92.636	
1A2d	Liquid	0.103	10.145	0.004	3.055	Gg	0.003	0.822	93.458	
1A4ai	Liquid	0.152	10.145	0.025	3.055	Gg	0.002	0.636	94.094	
1A3dii	Liquid	0.069	10.145	0.041	3.055	Gg	0.002	0.616	94.709	
1A4bi	Liquid	0.072	10.145	0.004	3.055	Gg	0.002	0.531	95.241	
1A2f	Liquid	0.066	10.145	0.004	3.055	Gg	0.002	0.485	95.726	
1A4bii	Liquid	0.027	10.145	0.022	3.055	Gg	0.001	0.435	96.161	
1A2e	Liquid	0.043	10.145	0.001	3.055	Gg	0.001	0.374	96.535	
2H1		0.047	10.145	0.002	3.055	Gg	0.001	0.370	96.905	
1A2c	Liquid	0.050	10.145	0.004	3.055	Gg	0.001	0.345	97.250	
1A4ci	Liquid	0.050	10.145	0.004	3.055	Gg	0.001	0.341	97.591	
1A5a	Liquid	0.094	10.145	0.017	3.055	Gg	0.001	0.335	97.926	
1A1a	Solid	0.024	10.145	0.001	3.055	Gg	0.001	0.196	98.122	
1B1b		0.002	10.145	0.007	3.055	Gg	0.001	0.188	98.310	
1A4ciii	Liquid	0.024	10.145	0.013	3.055	Gg	0.001	0.163	98.473	
1A3c	Liquid	0.055	10.145	0.012	3.055	Gg	0.000	0.147	98.619	
1A2a	Liquid	0.015	10.145	0.000	3.055	Gg	0.000	0.137	98.757	
2C2		0.001	10.145	0.004	3.055	Gg	0.000	0.115	98.872	
2D3b		0.005	10.145	0.005	3.055	Gg	0.000	0.115	98.986	
1A2f	Solid	0.012	10.145	0.000	3.055	Gg	0.000	0.105	99.091	
1A1a	Peat	0.015	10.145	0.002	3.055	Gg	0.000	0.093	99.185	
1A1b	Liquid	0.011	10.145	0.000	3.055	Gg	0.000	0.090	99.275	
1A2b	Liquid	0.011	10.145	0.000	3.055	Gg	0.000	0.089	99.364	
2C1		0.012	10.145	0.001	3.055	Gg	0.000	0.086	99.450	
1A3ai(i)	Liquid	0.002	10.145	0.003	3.055	Gg	0.000	0.083	99.532	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4bi	Peat	0.007	10.145	0.000	3.055	Gg	0.000	0.049	99.581	
1A4ci	Biomass	0.003	10.145	0.003	3.055	Gg	0.000	0.047	99.629	
1A2d	Peat	0.005	10.145	0.000	3.055	Gg	0.000	0.043	99.671	
1A4ai	Biomass	0.001	10.145	0.002	3.055	Gg	0.000	0.040	99.711	
1A4ci	Peat	0.000	10.145	0.001	3.055	Gg	0.000	0.029	99.741	
1A2gviii	Biomass	0.007	10.145	0.003	3.055	Gg	0.000	0.023	99.764	
1A2d	Solid	0.002	10.145	0.000	3.055	Gg	0.000	0.022	99.786	
1A2gviii	Other	0.002	10.145	0.000	3.055	Gg	0.000	0.021	99.807	
1A1a	Biomass	0.005	10.145	0.002	3.055	Gg	0.000	0.021	99.829	
1A3biv	Diesel oil	0.000	10.145	0.001	3.055	Gg	0.000	0.020	99.849	
5C1bv		0.000	10.145	0.001	3.055	Gg	0.000	0.019	99.867	
1A2d	Biomass	0.031	10.145	0.009	3.055	Gg	0.000	0.018	99.885	
1A2a	Solid	0.002	10.145	0.000	3.055	Gg	0.000	0.017	99.902	
2B10a		0.013	10.145	0.004	3.055	Gg	0.000	0.015	99.917	
1A3aii(i)	Liquid	0.001	10.145	0.001	3.055	Gg	0.000	0.011	99.928	
5E		0.033	10.145	0.010	3.055	Gg	0.000	0.011	99.939	
1A2f	Other	0.000	10.145	0.000	3.055	Gg	0.000	0.008	99.947	
1A3biv	Gasoline	0.006	10.145	0.002	3.055	Gg	0.000	0.007	99.954	
1A2d	Other	0.002	10.145	0.000	3.055	Gg	0.000	0.006	99.960	
1A2e	Peat	0.001	10.145	0.000	3.055	Gg	0.000	0.006	99.967	
2G		0.001	10.145	0.001	3.055	Gg	0.000	0.005	99.972	
1A2c	Biomass	0.001	10.145	0.000	3.055	Gg	0.000	0.005	99.977	
1A1a	Other	0.000	10.145	0.000	3.055	Gg	0.000	0.004	99.981	
1A2b	Solid	0.000	10.145	0.000	3.055	Gg	0.000	0.003	99.984	
1A2e	Solid	0.000	10.145	0.000	3.055	Gg	0.000	0.003	99.986	
1A3bii	Gasoline	0.000	10.145	0.000	3.055	Gg	0.000	0.002	99.988	
1A3bi	Gaseous	0.000	10.145	0.000	3.055	Gg	0.000	0.002	99.990	
1A2c	Other	0.000	10.145	0.000	3.055	Gg	0.000	0.002	99.992	
1A4bi	Other	0.000	10.145	0.000	3.055	Gg	0.000	0.001	99.993	
1A4ai	Peat	0.000	10.145	0.000	3.055	Gg	0.000	0.001	100	
2A2		0.000	10.145	0.000	3.055	Gg	0.000	0.001	100	
1A3dii	Gaseous	0.000	10.145	0.000	3.055	Gg	0.000	0.001	100	
1A3bi	Gasoline	0.021	10.145	0.006	3.055	Gg	0.000	0.001	100	
1A2e	Biomass	0.000	10.145	0.000	3.055	Gg	0.000	0.001	100	
2A3		0.000	10.145	0.000	3.055	Gg	0.000	0.001	100	
1A3biii	Gaseous	0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
1A2gviii	Peat	0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
2C7a		0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
2C3		0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
2D3i		0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
1A1b	Solid	0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
1A2a	Biomass	0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	
1A2f	Biomass	0.000	10.145	0.000	3.055	Gg	0.000	0.000	100	

CO

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gasoline	412.338	764.634	24.831	293.824	Gg	0.175	42.495	42.495	Yes
1A4bi	Biomass	124.241	764.634	131.874	293.824	Gg	0.110	26.757	69.251	Yes
1A4bii	Liquid	34.909	764.634	31.687	293.824	Gg	0.024	5.811	75.063	Yes
1A1a	Biomass	1.545	764.634	12.473	293.824	Gg	0.016	3.778	78.841	Yes
1A3dii	Liquid	22.554	764.634	19.946	293.824	Gg	0.015	3.587	82.428	Yes
1A4aii	Liquid	11.336	764.634	14.759	293.824	Gg	0.014	3.308	85.736	
1A5a	Biomass	0.130	764.634	9.045	293.824	Gg	0.012	2.861	88.597	
1A3bii	Gasoline	18.286	764.634	0.521	293.824	Gg	0.009	2.069	90.666	
1A2f	Solid	12.941	764.634	0.569	293.824	Gg	0.006	1.401	92.067	
1A3biii	Diesel oil	15.069	764.634	2.018	293.824	Gg	0.005	1.200	93.267	
1A2gvii	Liquid	8.424	764.634	6.184	293.824	Gg	0.004	0.937	94.204	
1A3bi	Diesel oil	9.979	764.634	0.989	293.824	Gg	0.004	0.905	95.109	
1A2a	Solid	6.922	764.634	0.449	293.824	Gg	0.003	0.703	95.812	
1A2d	Biomass	25.273	764.634	11.416	293.824	Gg	0.002	0.542	96.354	
1A2gviii	Biomass	3.848	764.634	2.848	293.824	Gg	0.002	0.436	96.790	
1A2f	Gaseous	1.888	764.634	0.030	293.824	Gg	0.001	0.221	97.011	
1A4ci	Biomass	1.515	764.634	1.227	293.824	Gg	0.001	0.205	97.216	
1A3ai(i)	Liquid	0.231	764.634	0.723	293.824	Gg	0.001	0.202	97.418	
1A2f	Liquid	1.281	764.634	1.090	293.824	Gg	0.001	0.190	97.608	
1A4ai	Biomass	0.455	764.634	0.734	293.824	Gg	0.001	0.178	97.786	
1A1a	Peat	1.544	764.634	1.017	293.824	Gg	0.001	0.135	97.921	
1A3biv	Gasoline	7.906	764.634	3.456	293.824	Gg	0.001	0.133	98.053	
1A5a	Gaseous	0.115	764.634	0.457	293.824	Gg	0.001	0.131	98.185	
1A2f	Other	0.000	764.634	0.394	293.824	Gg	0.001	0.125	98.310	
1A2d	Gaseous	1.836	764.634	0.323	293.824	Gg	0.000	0.122	98.431	
1A5a	Liquid	2.031	764.634	1.125	293.824	Gg	0.000	0.110	98.541	
1A3bii	Diesel oil	4.107	764.634	1.264	293.824	Gg	0.000	0.100	98.641	
1A4ci	Peat	0.080	764.634	0.342	293.824	Gg	0.000	0.099	98.740	
1A2d	Liquid	1.041	764.634	0.107	293.824	Gg	0.000	0.093	98.833	
1A2d	Other	0.008	764.634	0.266	293.824	Gg	0.000	0.084	98.917	
1A1b	Liquid	0.406	764.634	0.406	293.824	Gg	0.000	0.080	98.996	
1A2d	Solid	0.645	764.634	0.000	293.824	Gg	0.000	0.079	99.075	
1A4bi	Liquid	0.785	764.634	0.065	293.824	Gg	0.000	0.075	99.150	
1A2e	Biomass	0.079	764.634	0.254	293.824	Gg	0.000	0.071	99.221	
1A2f	Biomass	0.000	764.634	0.202	293.824	Gg	0.000	0.064	99.285	
1A1a	Other	0.008	764.634	0.200	293.824	Gg	0.000	0.063	99.348	
1A4cii	Liquid	18.799	764.634	7.417	293.824	Gg	0.000	0.061	99.409	
1A1a	Solid	0.793	764.634	0.144	293.824	Gg	0.000	0.051	99.461	
1A3biii	Liquid	0.000	764.634	0.131	293.824	Gg	0.000	0.042	99.502	
1A2d	Peat	0.700	764.634	0.144	293.824	Gg	0.000	0.040	99.542	
1A2a	Gaseous	0.023	764.634	0.129	293.824	Gg	0.000	0.038	99.580	
1A3bi	Gaseous	0.000	764.634	0.097	293.824	Gg	0.000	0.031	99.611	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2b	Liquid	0.020	764.634	0.099	293.824	Gg	0.000	0.029	99.640	
1A2a	Liquid	0.246	764.634	0.007	293.824	Gg	0.000	0.028	99.668	
2C1		0.464	764.634	0.096	293.824	Gg	0.000	0.026	99.694	
1A2c	Liquid	0.191	764.634	0.150	293.824	Gg	0.000	0.024	99.719	
1A4ciii	Liquid	0.442	764.634	0.243	293.824	Gg	0.000	0.023	99.742	
1A2gviii	Peat	0.024	764.634	0.080	293.824	Gg	0.000	0.023	99.764	
1A3c	Liquid	0.548	764.634	0.144	293.824	Gg	0.000	0.021	99.786	
2C7a		0.223	764.634	0.020	293.824	Gg	0.000	0.021	99.806	
1A2gviii	Other	0.279	764.634	0.045	293.824	Gg	0.000	0.020	99.826	
1A2gviii	Liquid	0.202	764.634	0.028	293.824	Gg	0.000	0.016	99.842	
1A2gviii	Gaseous	0.053	764.634	0.067	293.824	Gg	0.000	0.015	99.857	
1A1a	Gaseous	0.779	764.634	0.254	293.824	Gg	0.000	0.015	99.871	
1A4bi	Peat	0.130	764.634	0.009	293.824	Gg	0.000	0.013	99.884	
1A2c	Other	0.111	764.634	0.004	293.824	Gg	0.000	0.012	99.897	
2G		0.493	764.634	0.222	293.824	Gg	0.000	0.010	99.907	
1A2e	Peat	0.143	764.634	0.083	293.824	Gg	0.000	0.009	99.916	
1A2e	Liquid	0.090	764.634	0.008	293.824	Gg	0.000	0.009	99.924	
1A2b	Solid	0.079	764.634	0.004	293.824	Gg	0.000	0.008	99.933	
1A1b	Gaseous	0.167	764.634	0.042	293.824	Gg	0.000	0.007	99.939	
1A3biii	Gaseous	0.000	764.634	0.021	293.824	Gg	0.000	0.007	99.946	
1A3aii(i)	Liquid	0.631	764.634	0.262	293.824	Gg	0.000	0.006	99.952	
1A2e	Solid	0.053	764.634	0.001	293.824	Gg	0.000	0.006	99.959	
1A3biv	Diesel oil	0.000	764.634	0.017	293.824	Gg	0.000	0.005	99.964	
1A2c	Gaseous	0.034	764.634	0.029	293.824	Gg	0.000	0.005	99.969	
1A1b	Biomass	0.000	764.634	0.012	293.824	Gg	0.000	0.004	99.973	
1A4ai	Gaseous	0.031	764.634	0.024	293.824	Gg	0.000	0.004	99.977	
1A3dii	Gaseous	0.000	764.634	0.012	293.824	Gg	0.000	0.004	99.981	
1A2e	Gaseous	0.018	764.634	0.018	293.824	Gg	0.000	0.003	99.984	
1A4ai	Peat	0.018	764.634	0.017	293.824	Gg	0.000	0.003	99.987	
1A1b	Solid	0.001	764.634	0.009	293.824	Gg	0.000	0.003	99.990	
1A2c	Biomass	0.021	764.634	0.016	293.824	Gg	0.000	0.003	99.993	
1A4ci	Gaseous	0.022	764.634	0.001	293.824	Gg	0.000	0.002	99.995	
1A1a	Liquid	0.371	764.634	0.136	293.824	Gg	0.000	0.002	99.997	
1A4ci	Liquid	0.183	764.634	0.076	293.824	Gg	0.000	0.002	99.999	
1A4bi	Gaseous	0.030	764.634	0.013	293.824	Gg	0.000	0.000	99.999	
1A4ai	Liquid	0.527	764.634	0.203	293.824	Gg	0.000	0.000	100	
1A2a	Biomass	0.000	764.634	0.001	293.824	Gg	0.000	0.000	100	
1A4bi	Other	0.001	764.634	0.000	293.824	Gg	0.000	0.000	100	
1A3ei	Gaseous	0.001	764.634	0.000	293.824	Gg	0.000	0.000	100	
1A2b	Gaseous	0.000	764.634	0.000	293.824	Gg	0.000	0.000	100	

Pb

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gasoline	166.003	321.435	0.002	11.411	Mg	0.018	29.538	29.538	Yes
1A1b	Liquid	2.049	321.435	2.654	11.411	Mg	0.008	12.944	42.482	Yes
2C7c		80.081	321.435	0.314	11.411	Mg	0.008	12.678	55.160	Yes
1A2d	Biomass	4.479	321.435	2.390	11.411	Mg	0.007	11.184	66.344	Yes
2G		0.310	321.435	1.199	11.411	Mg	0.004	5.955	72.298	Yes
2C1		34.463	321.435	0.291	11.411	Mg	0.003	4.675	76.974	Yes
1A5a	Biomass	0.015	321.435	0.814	11.411	Mg	0.003	4.079	81.053	Yes
1A1a	Peat	1.291	321.435	0.824	11.411	Mg	0.002	3.904	84.956	
1A1a	Biomass	0.179	321.435	0.718	11.411	Mg	0.002	3.568	88.524	
1A4bi	Biomass	0.413	321.435	0.448	11.411	Mg	0.001	2.174	90.699	
1A4ci	Peat	0.068	321.435	0.275	11.411	Mg	0.001	1.365	92.064	
1A3bii	Gasoline	6.400	321.435	0.000	11.411	Mg	0.001	1.139	93.203	
1A3bvi		7.220	321.435	0.456	11.411	Mg	0.001	0.999	94.202	
1A1a	Solid	5.751	321.435	0.009	11.411	Mg	0.001	0.979	95.181	
1A1a	Other	0.001	321.435	0.148	11.411	Mg	0.000	0.740	95.921	
1A2f	Solid	2.811	321.435	0.243	11.411	Mg	0.000	0.720	96.641	
1A2gviii	Biomass	0.319	321.435	0.114	11.411	Mg	0.000	0.515	97.156	
1A2e	Peat	0.167	321.435	0.070	11.411	Mg	0.000	0.324	97.480	
1A4ci	Biomass	0.065	321.435	0.053	11.411	Mg	0.000	0.254	97.733	
1A3biv	Gasoline	1.300	321.435	0.000	11.411	Mg	0.000	0.231	97.965	
1A3aii(i)	Liquid	0.297	321.435	0.055	11.411	Mg	0.000	0.225	98.189	
1A1a	Liquid	0.319	321.435	0.048	11.411	Mg	0.000	0.186	98.375	
1A2d	Solid	1.025	321.435	0.000	11.411	Mg	0.000	0.182	98.558	
1A2e	Solid	1.384	321.435	0.017	11.411	Mg	0.000	0.160	98.718	
1A4ai	Biomass	0.020	321.435	0.032	11.411	Mg	0.000	0.157	98.875	
1A4ai	Liquid	0.261	321.435	0.037	11.411	Mg	0.000	0.140	99.015	
1A5a	Liquid	0.211	321.435	0.029	11.411	Mg	0.000	0.109	99.124	
2C2		0.001	321.435	0.020	11.411	Mg	0.000	0.101	99.225	
1A2d	Peat	0.499	321.435	0.001	11.411	Mg	0.000	0.085	99.310	
1A4ai	Peat	0.020	321.435	0.017	11.411	Mg	0.000	0.081	99.390	
1A2c	Liquid	0.082	321.435	0.018	11.411	Mg	0.000	0.075	99.466	
2C6		0.000	321.435	0.013	11.411	Mg	0.000	0.063	99.529	
2C7a		0.374	321.435	0.002	11.411	Mg	0.000	0.058	99.587	
1B1b		0.022	321.435	0.012	11.411	Mg	0.000	0.057	99.643	
1A2d	Other	0.001	321.435	0.011	11.411	Mg	0.000	0.054	99.698	
1A2gviii	Other	0.049	321.435	0.011	11.411	Mg	0.000	0.045	99.743	
1A2gviii	Peat	0.003	321.435	0.008	11.411	Mg	0.000	0.041	99.783	
1A2e	Biomass	0.008	321.435	0.008	11.411	Mg	0.000	0.039	99.822	
1A3dii	Liquid	0.015	321.435	0.007	11.411	Mg	0.000	0.033	99.855	
1A2f	Liquid	0.062	321.435	0.008	11.411	Mg	0.000	0.029	99.884	
1A4ciii	Liquid	0.007	321.435	0.004	11.411	Mg	0.000	0.018	99.902	
1A4bi	Peat	0.111	321.435	0.007	11.411	Mg	0.000	0.017	99.919	
1A2gviii	Liquid	0.113	321.435	0.001	11.411	Mg	0.000	0.013	99.932	
1A4ci	Liquid	0.081	321.435	0.005	11.411	Mg	0.000	0.013	99.945	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C3		0.066	321.435	0.000	11.411	Mg	0.000	0.011	99.957	
1A2e	Liquid	0.083	321.435	0.001	11.411	Mg	0.000	0.008	99.964	
5C1bv		0.000	321.435	0.001	11.411	Mg	0.000	0.006	99.970	
1A2d	Liquid	0.195	321.435	0.008	11.411	Mg	0.000	0.005	99.975	
2B10a		0.001	321.435	0.001	11.411	Mg	0.000	0.005	99.980	
1A2f	Other	0.000	321.435	0.001	11.411	Mg	0.000	0.003	99.983	
1A3biii	Diesel oil	0.000	321.435	0.001	11.411	Mg	0.000	0.003	99.985	
1A2a	Biomass	0.000	321.435	0.000	11.411	Mg	0.000	0.002	99.988	
1A2c	Other	0.014	321.435	0.000	11.411	Mg	0.000	0.002	99.990	
1A2b	Liquid	0.010	321.435	0.001	11.411	Mg	0.000	0.002	99.992	
1A3bi	Diesel oil	0.000	321.435	0.000	11.411	Mg	0.000	0.002	99.994	
1A2f	Biomass	0.000	321.435	0.000	11.411	Mg	0.000	0.002	99.995	
1A2c	Biomass	0.003	321.435	0.000	11.411	Mg	0.000	0.002	99.997	
5E		0.001	321.435	0.000	11.411	Mg	0.000	0.002	99.999	
1A3bii	Diesel oil	0.000	321.435	0.000	11.411	Mg	0.000	0.001	100	
1A3biii	Liquid	0.000	321.435	0.000	11.411	Mg	0.000	0.000	100	
1A3bi	Gaseous	0.000	321.435	0.000	11.411	Mg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	321.435	0.000	11.411	Mg	0.000	0.000	100	
1A3biii	Gaseous	0.000	321.435	0.000	11.411	Mg	0.000	0.000	100	

Cd

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		4.203	6.740	0.031	0.739	Mg	0.064	35.979	35.979	Yes
1A4bi	Biomass	0.124	6.740	0.134	0.739	Mg	0.018	10.122	46.102	Yes
1A2d	Biomass	0.317	6.740	0.155	0.739	Mg	0.018	10.072	56.174	Yes
1A1a	Biomass	0.019	6.740	0.094	0.739	Mg	0.014	7.705	63.879	Yes
1A5a	Biomass	0.002	6.740	0.090	0.739	Mg	0.013	7.557	71.436	Yes
2C6		0.850	6.740	0.004	0.739	Mg	0.013	7.468	78.904	Yes
1A1b	Liquid	0.047	6.740	0.060	0.739	Mg	0.008	4.636	83.540	Yes
2C1		0.390	6.740	0.006	0.739	Mg	0.005	3.045	86.585	
1A1a	Other	0.000	6.740	0.022	0.739	Mg	0.003	1.881	88.466	
2G		0.049	6.740	0.023	0.739	Mg	0.003	1.471	89.937	
1A1a	Solid	0.155	6.740	0.001	0.739	Mg	0.002	1.380	91.316	
1A3bi	Gasoline	0.016	6.740	0.015	0.739	Mg	0.002	1.121	92.438	
1A4ci	Biomass	0.020	6.740	0.015	0.739	Mg	0.002	1.110	93.548	
1A1a	Peat	0.023	6.740	0.014	0.739	Mg	0.002	0.924	94.472	
1A2gviii	Biomass	0.036	6.740	0.015	0.739	Mg	0.002	0.896	95.368	
1A4ai	Biomass	0.006	6.740	0.010	0.739	Mg	0.001	0.751	96.119	
1A3bi	Diesel oil	0.011	6.740	0.009	0.739	Mg	0.001	0.642	96.761	
1A4ci	Peat	0.001	6.740	0.005	0.739	Mg	0.001	0.369	97.130	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2gvii	Liquid	0.003	6.740	0.004	0.739	Mg	0.000	0.278	97.407	
1A3bii	Diesel oil	0.004	6.740	0.004	0.739	Mg	0.000	0.271	97.678	
1A2e	Solid	0.032	6.740	0.000	0.739	Mg	0.000	0.257	97.934	
1A3biii	Diesel oil	0.002	6.740	0.003	0.739	Mg	0.000	0.234	98.169	
1A2d	Solid	0.024	6.740	0.000	0.739	Mg	0.000	0.220	98.389	
2C3		0.023	6.740	0.000	0.739	Mg	0.000	0.210	98.598	
1A4cii	Liquid	0.003	6.740	0.002	0.739	Mg	0.000	0.167	98.766	
1A2f	Solid	0.068	6.740	0.006	0.739	Mg	0.000	0.160	98.926	
1A3bvi		0.002	6.740	0.002	0.739	Mg	0.000	0.128	99.054	
1A2f	Other	0.000	6.740	0.001	0.739	Mg	0.000	0.106	99.161	
1A2d	Peat	0.008	6.740	0.000	0.739	Mg	0.000	0.075	99.236	
1A2e	Peat	0.003	6.740	0.001	0.739	Mg	0.000	0.072	99.308	
1A2e	Biomass	0.001	6.740	0.001	0.739	Mg	0.000	0.066	99.374	
1A4aii	Liquid	0.001	6.740	0.001	0.739	Mg	0.000	0.065	99.439	
1A3biv	Gasoline	0.001	6.740	0.001	0.739	Mg	0.000	0.064	99.503	
1A2d	Other	0.000	6.740	0.001	0.739	Mg	0.000	0.057	99.560	
1A2gviii	Other	0.028	6.740	0.002	0.739	Mg	0.000	0.056	99.616	
5E		0.002	6.740	0.001	0.739	Mg	0.000	0.044	99.660	
1A4bii	Liquid	0.000	6.740	0.001	0.739	Mg	0.000	0.040	99.699	
1A3dii	Liquid	0.001	6.740	0.001	0.739	Mg	0.000	0.035	99.734	
1A2c	Biomass	0.000	6.740	0.000	0.739	Mg	0.000	0.022	99.756	
1A4ciii	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.020	99.777	
1A4ai	Peat	0.000	6.740	0.000	0.739	Mg	0.000	0.020	99.797	
1A2f	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.020	99.817	
1A2gviii	Peat	0.000	6.740	0.000	0.739	Mg	0.000	0.017	99.833	
1A3bi	Gaseous	0.000	6.740	0.000	0.739	Mg	0.000	0.016	99.849	
5C1bv		0.000	6.740	0.000	0.739	Mg	0.000	0.016	99.865	
1A2c	Other	0.002	6.740	0.000	0.739	Mg	0.000	0.013	99.878	
1A5a	Liquid	0.003	6.740	0.000	0.739	Mg	0.000	0.013	99.891	
1B1b		0.000	6.740	0.000	0.739	Mg	0.000	0.012	99.903	
1A2c	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.011	99.914	
1A2gviii	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.010	99.924	
1A4ai	Liquid	0.003	6.740	0.000	0.739	Mg	0.000	0.008	99.933	
1A2e	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.008	99.941	
2C2		0.003	6.740	0.000	0.739	Mg	0.000	0.008	99.949	
1A3c	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.007	99.956	
1A2d	Liquid	0.003	6.740	0.000	0.739	Mg	0.000	0.007	99.963	
1A4bi	Peat	0.002	6.740	0.000	0.739	Mg	0.000	0.007	99.969	
1A2f	Biomass	0.000	6.740	0.000	0.739	Mg	0.000	0.007	99.976	
1A1a	Liquid	0.005	6.740	0.001	0.739	Mg	0.000	0.005	99.981	
1A3biii	Gaseous	0.000	6.740	0.000	0.739	Mg	0.000	0.004	99.985	
1A2a	Biomass	0.000	6.740	0.000	0.739	Mg	0.000	0.004	99.989	
1A4ci	Liquid	0.001	6.740	0.000	0.739	Mg	0.000	0.003	99.993	
1A3bii	Gasoline	0.000	6.740	0.000	0.739	Mg	0.000	0.003	100	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3biii	Liquid	0.000	6.740	0.000	0.739	Mg	0.000	0.003	100	
1A3biv	Diesel oil	0.000	6.740	0.000	0.739	Mg	0.000	0.001	100	
2C7a		0.000	6.740	0.000	0.739	Mg	0.000	0.001	100	
1A2b	Liquid	0.000	6.740	0.000	0.739	Mg	0.000	0.000	100	

Hg

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2B10a		0.369	1.087	0.035	0.393	Mg	0.091	20.001	20.001	Yes
1A2gviii	Other	0.171	1.087	0.005	0.393	Mg	0.052	11.493	31.494	Yes
1A1a	Solid	0.172	1.087	0.008	0.393	Mg	0.051	11.160	42.655	Yes
1A1a	Biomass	0.004	1.087	0.053	0.393	Mg	0.047	10.402	53.056	Yes
1A2d	Biomass	0.089	1.087	0.078	0.393	Mg	0.043	9.389	62.445	Yes
2C1		0.005	1.087	0.039	0.393	Mg	0.034	7.587	70.032	Yes
5C1bv		0.006	1.087	0.024	0.393	Mg	0.020	4.461	74.492	Yes
1A4bi	Biomass	0.021	1.087	0.022	0.393	Mg	0.014	3.036	77.528	Yes
1A1a	Peat	0.062	1.087	0.034	0.393	Mg	0.011	2.361	79.889	Yes
1A2f	Liquid	0.000	1.087	0.012	0.393	Mg	0.011	2.355	82.244	Yes
1A5a	Biomass	0.000	1.087	0.009	0.393	Mg	0.008	1.826	84.070	
1A1b	Liquid	0.010	1.087	0.012	0.393	Mg	0.008	1.823	85.893	
1A2d	Solid	0.018	1.087	0.000	0.393	Mg	0.006	1.351	87.243	
2C7c		0.028	1.087	0.004	0.393	Mg	0.006	1.227	88.470	
1A2a	Solid	0.017	1.087	0.000	0.393	Mg	0.005	1.208	89.678	
1A1a	Other	0.000	1.087	0.006	0.393	Mg	0.005	1.179	90.858	
1A2d	Peat	0.016	1.087	0.001	0.393	Mg	0.004	0.889	91.747	
1A3bi	Gasoline	0.016	1.087	0.010	0.393	Mg	0.004	0.884	92.631	
1A3biii	Diesel oil	0.005	1.087	0.006	0.393	Mg	0.004	0.794	93.425	
1A4ci	Peat	0.001	1.087	0.004	0.393	Mg	0.004	0.783	94.208	
1A2f	Solid	0.017	1.087	0.002	0.393	Mg	0.004	0.780	94.988	
1A2f	Other	0.000	1.087	0.003	0.393	Mg	0.003	0.643	95.631	
1A3bi	Diesel oil	0.002	1.087	0.003	0.393	Mg	0.003	0.557	96.188	
1A2gviii	Biomass	0.005	1.087	0.004	0.393	Mg	0.002	0.530	96.718	
2C7a		0.007	1.087	0.000	0.393	Mg	0.002	0.478	97.195	
1A2e	Solid	0.006	1.087	0.000	0.393	Mg	0.002	0.461	97.656	
2C6		0.000	1.087	0.002	0.393	Mg	0.002	0.449	98.105	
1A4ci	Biomass	0.003	1.087	0.003	0.393	Mg	0.001	0.284	98.389	
1A3bii	Diesel oil	0.001	1.087	0.002	0.393	Mg	0.001	0.275	98.664	
2C2		0.000	1.087	0.001	0.393	Mg	0.001	0.273	98.937	
1A4ai	Biomass	0.001	1.087	0.002	0.393	Mg	0.001	0.254	99.191	
1A3dii	Liquid	0.003	1.087	0.002	0.393	Mg	0.001	0.124	99.315	
1A4bi	Peat	0.002	1.087	0.000	0.393	Mg	0.000	0.102	99.417	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2gviii	Peat	0.000	1.087	0.000	0.393	Mg	0.000	0.081	99.498	
1A4ciii	Liquid	0.002	1.087	0.001	0.393	Mg	0.000	0.062	99.560	
1A2e	Biomass	0.000	1.087	0.000	0.393	Mg	0.000	0.060	99.620	
1A2e	Peat	0.003	1.087	0.001	0.393	Mg	0.000	0.051	99.671	
1A3biv	Gasoline	0.000	1.087	0.000	0.393	Mg	0.000	0.047	99.718	
1A2c	Biomass	0.000	1.087	0.000	0.393	Mg	0.000	0.036	99.754	
1A3bii	Gasoline	0.001	1.087	0.000	0.393	Mg	0.000	0.035	99.789	
1A4ai	Peat	0.000	1.087	0.000	0.393	Mg	0.000	0.029	99.819	
1A2d	Other	0.000	1.087	0.000	0.393	Mg	0.000	0.027	99.846	
1A5a	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.025	99.871	
1A1a	Liquid	0.001	1.087	0.000	0.393	Mg	0.000	0.021	99.892	
2G		0.000	1.087	0.000	0.393	Mg	0.000	0.016	99.908	
1A2d	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.015	99.923	
1A4ai	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.014	99.937	
1A3biii	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.010	99.947	
1A2gviii	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.010	99.956	
1A2c	Other	0.000	1.087	0.000	0.393	Mg	0.000	0.009	99.966	
1A2e	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.007	99.973	
5E		0.002	1.087	0.001	0.393	Mg	0.000	0.006	99.980	
1A4ci	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.006	99.985	
1A2c	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.004	99.990	
1A3bi	Gaseous	0.000	1.087	0.000	0.393	Mg	0.000	0.004	99.993	
1A2f	Biomass	0.000	1.087	0.000	0.393	Mg	0.000	0.004	99.997	
1A2a	Biomass	0.000	1.087	0.000	0.393	Mg	0.000	0.001	99.998	
1A3biv	Diesel oil	0.000	1.087	0.000	0.393	Mg	0.000	0.001	99.999	
1A2b	Liquid	0.000	1.087	0.000	0.393	Mg	0.000	0.001	100	
1B1b		0.000	1.087	0.000	0.393	Mg	0.000	0.000	100	

As

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		28.000	34.817	0.149	1.655	Mg	0.034	44.176	44.176	Yes
1A1b	Liquid	0.336	34.817	0.437	1.655	Mg	0.012	15.723	59.898	Yes
1A1a	Peat	0.628	34.817	0.433	1.655	Mg	0.012	15.044	74.942	Yes
1A4ci	Peat	0.032	34.817	0.133	1.655	Mg	0.004	4.902	79.844	Yes
1A2d	Biomass	0.160	34.817	0.132	1.655	Mg	0.004	4.635	84.480	Yes
1A1a	Solid	1.618	34.817	0.010	1.655	Mg	0.002	2.504	86.984	
2C6		1.700	34.817	0.027	1.655	Mg	0.002	2.017	89.001	
1A4bi	Biomass	0.041	34.817	0.045	1.655	Mg	0.001	1.602	90.602	
1A3bvi		0.036	34.817	0.040	1.655	Mg	0.001	1.448	92.050	
1A1a	Biomass	0.004	34.817	0.030	1.655	Mg	0.001	1.128	93.178	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2e	Peat	0.080	34.817	0.034	1.655	Mg	0.001	1.113	94.292	
2C1		0.411	34.817	0.043	1.655	Mg	0.001	0.864	95.156	
1A5a	Biomass	0.000	34.817	0.018	1.655	Mg	0.001	0.675	95.831	
1A2f	Solid	0.491	34.817	0.040	1.655	Mg	0.000	0.631	96.462	
1A2d	Solid	0.229	34.817	0.000	1.655	Mg	0.000	0.406	96.867	
1A1a	Other	0.000	34.817	0.011	1.655	Mg	0.000	0.394	97.261	
1A2d	Peat	0.238	34.817	0.001	1.655	Mg	0.000	0.375	97.636	
1A2e	Solid	0.228	34.817	0.003	1.655	Mg	0.000	0.299	97.934	
1A4ai	Peat	0.010	34.817	0.008	1.655	Mg	0.000	0.282	98.217	
2C7a		0.113	34.817	0.012	1.655	Mg	0.000	0.238	98.454	
1A4ci	Biomass	0.007	34.817	0.005	1.655	Mg	0.000	0.179	98.633	
1B1b		0.004	34.817	0.005	1.655	Mg	0.000	0.169	98.802	
1A2gviii	Peat	0.001	34.817	0.004	1.655	Mg	0.000	0.141	98.943	
1A3dii	Liquid	0.028	34.817	0.005	1.655	Mg	0.000	0.133	99.076	
1A4ai	Biomass	0.002	34.817	0.003	1.655	Mg	0.000	0.116	99.192	
1A2gviii	Biomass	0.007	34.817	0.003	1.655	Mg	0.000	0.095	99.287	
1A1a	Liquid	0.029	34.817	0.004	1.655	Mg	0.000	0.081	99.368	
2G		0.001	34.817	0.002	1.655	Mg	0.000	0.075	99.444	
1A4ai	Liquid	0.021	34.817	0.003	1.655	Mg	0.000	0.074	99.517	
1A5a	Liquid	0.017	34.817	0.003	1.655	Mg	0.000	0.067	99.584	
1A2f	Liquid	0.005	34.817	0.002	1.655	Mg	0.000	0.049	99.633	
1A2gviii	Other	0.001	34.817	0.001	1.655	Mg	0.000	0.047	99.679	
1A4ciii	Liquid	0.002	34.817	0.001	1.655	Mg	0.000	0.041	99.721	
5E		0.003	34.817	0.001	1.655	Mg	0.000	0.039	99.760	
2C2		0.002	34.817	0.001	1.655	Mg	0.000	0.038	99.797	
1A4bi	Peat	0.053	34.817	0.003	1.655	Mg	0.000	0.037	99.834	
1A2c	Liquid	0.007	34.817	0.001	1.655	Mg	0.000	0.035	99.869	
1A2d	Other	0.000	34.817	0.001	1.655	Mg	0.000	0.026	99.895	
5C1bv		0.000	34.817	0.001	1.655	Mg	0.000	0.019	99.914	
1A2d	Liquid	0.018	34.817	0.001	1.655	Mg	0.000	0.017	99.931	
1A3bi	Gasoline	0.001	34.817	0.000	1.655	Mg	0.000	0.012	99.943	
2C3		0.008	34.817	0.000	1.655	Mg	0.000	0.011	99.954	
1A2e	Liquid	0.007	34.817	0.000	1.655	Mg	0.000	0.009	99.963	
1A2gviii	Liquid	0.009	34.817	0.000	1.655	Mg	0.000	0.009	99.972	
1A2e	Biomass	0.000	34.817	0.000	1.655	Mg	0.000	0.009	99.981	
1A3biii	Diesel oil	0.000	34.817	0.000	1.655	Mg	0.000	0.004	99.985	
1A2f	Biomass	0.000	34.817	0.000	1.655	Mg	0.000	0.003	99.988	
1A4ci	Liquid	0.006	34.817	0.000	1.655	Mg	0.000	0.003	99.991	
1A3bi	Diesel oil	0.000	34.817	0.000	1.655	Mg	0.000	0.002	99.993	
1A2c	Biomass	0.000	34.817	0.000	1.655	Mg	0.000	0.002	99.995	
1A2f	Other	0.000	34.817	0.000	1.655	Mg	0.000	0.001	99.997	
1A3bii	Diesel oil	0.000	34.817	0.000	1.655	Mg	0.000	0.001	99.998	
1A2b	Liquid	0.001	34.817	0.000	1.655	Mg	0.000	0.001	99.999	
1A2c	Other	0.000	34.817	0.000	1.655	Mg	0.000	0.000	99.999	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2a	Biomass	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	
1A3biv	Gasoline	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	
1A3biii	Liquid	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	
1A3bi	Gaseous	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	
1A3bii	Gasoline	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	34.817	0.000	1.655	Mg	0.000	0.000	100	

Cr

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C1		19.554	47.814	2.242	12.836	Mg	0.063	21.128	21.128	Yes
1A1b	Liquid	2.574	47.814	3.360	12.836	Mg	0.056	18.752	39.880	Yes
1A1a	Solid	6.765	47.814	0.018	12.836	Mg	0.038	12.631	52.511	Yes
1A4bi	Biomass	1.445	47.814	1.569	12.836	Mg	0.025	8.298	60.809	Yes
1A3bvi		1.143	47.814	1.269	12.836	Mg	0.020	6.759	67.568	Yes
1A5a	Biomass	0.012	47.814	0.633	12.836	Mg	0.013	4.426	71.995	Yes
1A2f	Solid	3.365	47.814	0.308	12.836	Mg	0.012	4.182	76.177	Yes
1A1a	Biomass	0.117	47.814	0.541	12.836	Mg	0.011	3.582	79.759	Yes
1A2e	Solid	1.752	47.814	0.022	12.836	Mg	0.009	3.151	82.910	Yes
1A1a	Peat	1.076	47.814	0.676	12.836	Mg	0.008	2.718	85.628	
1A2d	Solid	1.263	47.814	0.000	12.836	Mg	0.007	2.383	88.011	
1A2b	Solid	1.845	47.814	0.220	12.836	Mg	0.006	1.937	89.948	
1A4ci	Peat	0.056	47.814	0.226	12.836	Mg	0.004	1.484	91.432	
1A1a	Other	0.001	47.814	0.156	12.836	Mg	0.003	1.093	92.525	
2C7c		0.520	47.814	0.008	12.836	Mg	0.003	0.927	93.452	
1A2gviii	Biomass	0.817	47.814	0.088	12.836	Mg	0.003	0.925	94.377	
1A4ci	Biomass	0.228	47.814	0.178	12.836	Mg	0.002	0.823	95.200	
1A2d	Peat	0.411	47.814	0.002	12.836	Mg	0.002	0.759	95.958	
2C2		2.000	47.814	0.636	12.836	Mg	0.002	0.696	96.654	
1A4ai	Biomass	0.068	47.814	0.112	12.836	Mg	0.002	0.660	97.315	
1A2gviii	Other	0.024	47.814	0.061	12.836	Mg	0.001	0.380	97.694	
1A3bi	Gasoline	0.074	47.814	0.070	12.836	Mg	0.001	0.352	98.047	
2C7a		0.145	47.814	0.002	12.836	Mg	0.001	0.258	98.304	
1A3bi	Diesel oil	0.055	47.814	0.043	12.836	Mg	0.001	0.197	98.502	
2G		0.006	47.814	0.024	12.836	Mg	0.000	0.156	98.658	
1A2e	Peat	0.138	47.814	0.058	12.836	Mg	0.000	0.148	98.806	
1B1b		0.003	47.814	0.021	12.836	Mg	0.000	0.141	98.947	
1A4bi	Peat	0.091	47.814	0.006	12.836	Mg	0.000	0.129	99.077	
1A3biii	Diesel oil	0.018	47.814	0.022	12.836	Mg	0.000	0.121	99.198	
1A2gvii	Liquid	0.015	47.814	0.018	12.836	Mg	0.000	0.100	99.298	

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1A3bii	Diesel oil	0.018	47.814	0.018	12.836	Mg	0.000	0.093	99.391	
1A2d	Other	0.001	47.814	0.012	12.836	Mg	0.000	0.081	99.472	
1A2d	Biomass	0.558	47.814	0.138	12.836	Mg	0.000	0.079	99.551	
1A4ai	Peat	0.017	47.814	0.014	12.836	Mg	0.000	0.066	99.617	
1A4cii	Liquid	0.015	47.814	0.012	12.836	Mg	0.000	0.054	99.671	
1A2gviii	Peat	0.002	47.814	0.007	12.836	Mg	0.000	0.043	99.714	
1A2c	Biomass	0.000	47.814	0.005	12.836	Mg	0.000	0.036	99.750	
1A2gviii	Liquid	0.016	47.814	0.000	12.836	Mg	0.000	0.029	99.779	
1A2e	Biomass	0.006	47.814	0.005	12.836	Mg	0.000	0.026	99.805	
1A2c	Other	0.011	47.814	0.000	12.836	Mg	0.000	0.020	99.825	
1A3biv	Gasoline	0.003	47.814	0.004	12.836	Mg	0.000	0.020	99.845	
1A4aii	Liquid	0.007	47.814	0.005	12.836	Mg	0.000	0.020	99.865	
1A2f	Liquid	0.002	47.814	0.003	12.836	Mg	0.000	0.019	99.884	
1A3dii	Liquid	0.030	47.814	0.006	12.836	Mg	0.000	0.018	99.902	
1A2f	Other	0.000	47.814	0.002	12.836	Mg	0.000	0.015	99.917	
1A4bii	Liquid	0.002	47.814	0.003	12.836	Mg	0.000	0.014	99.931	
1A1a	Liquid	0.015	47.814	0.002	12.836	Mg	0.000	0.013	99.945	
1A4ai	Liquid	0.010	47.814	0.001	12.836	Mg	0.000	0.009	99.954	
1A2e	Liquid	0.003	47.814	0.000	12.836	Mg	0.000	0.006	99.960	
1A3bi	Gaseous	0.000	47.814	0.001	12.836	Mg	0.000	0.006	99.965	
1A4ciii	Liquid	0.003	47.814	0.002	12.836	Mg	0.000	0.005	99.971	
1A5a	Liquid	0.009	47.814	0.002	12.836	Mg	0.000	0.005	99.976	
1A2d	Liquid	0.009	47.814	0.002	12.836	Mg	0.000	0.005	99.981	
1A4ci	Liquid	0.003	47.814	0.000	12.836	Mg	0.000	0.005	99.985	
5C1bv		0.000	47.814	0.001	12.836	Mg	0.000	0.003	99.989	
1A2a	Biomass	0.000	47.814	0.000	12.836	Mg	0.000	0.002	99.991	
1A2f	Biomass	0.000	47.814	0.000	12.836	Mg	0.000	0.002	99.993	
5E		0.003	47.814	0.001	12.836	Mg	0.000	0.002	99.995	
1A3biii	Gaseous	0.000	47.814	0.000	12.836	Mg	0.000	0.001	99.996	
1A3biii	Liquid	0.000	47.814	0.000	12.836	Mg	0.000	0.001	99.998	
1A3bii	Gasoline	0.000	47.814	0.000	12.836	Mg	0.000	0.001	100	
1A2c	Liquid	0.003	47.814	0.001	12.836	Mg	0.000	0.001	100	
1A3c	Liquid	0.003	47.814	0.001	12.836	Mg	0.000	0.000	100	
1A2b	Liquid	0.001	47.814	0.000	12.836	Mg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	47.814	0.000	12.836	Mg	0.000	0.000	100	

Cu

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		80.257	162.696	0.338	42.656	Mg	0.127	40.838	40.838	Yes
1A3bvi		49.238	162.696	28.572	42.656	Mg	0.096	30.895	71.733	Yes

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3bi	Gasoline	2.662	162.696	2.547	42.656	Mg	0.011	3.647	75.380	Yes
1A1a	Solid	5.471	162.696	0.016	42.656	Mg	0.009	2.798	78.178	Yes
2C7a		4.803	162.696	0.006	42.656	Mg	0.008	2.471	80.650	Yes
1A3bi	Diesel oil	1.951	162.696	1.521	42.656	Mg	0.006	1.992	82.642	
1A1b	Liquid	0.902	162.696	1.176	42.656	Mg	0.006	1.853	84.495	
2C1		5.540	162.696	0.526	42.656	Mg	0.006	1.828	86.323	
1A5a	Biomass	0.017	162.696	0.923	42.656	Mg	0.006	1.811	88.134	
1A1a	Biomass	0.174	162.696	0.952	42.656	Mg	0.006	1.787	89.921	
2G		0.224	162.696	0.699	42.656	Mg	0.004	1.264	91.185	
1A1a	Peat	1.662	162.696	1.069	42.656	Mg	0.004	1.248	92.433	
1A2gvii	Liquid	0.503	162.696	0.619	42.656	Mg	0.003	0.960	93.393	
1A3bii	Diesel oil	0.624	162.696	0.619	42.656	Mg	0.003	0.898	94.291	
1A3biii	Diesel oil	0.407	162.696	0.520	42.656	Mg	0.003	0.814	95.106	
1A4ci	Peat	0.088	162.696	0.356	42.656	Mg	0.002	0.656	95.761	
1A4cii	Liquid	0.499	162.696	0.395	42.656	Mg	0.002	0.520	96.282	
1A2f	Solid	1.280	162.696	0.108	42.656	Mg	0.001	0.449	96.731	
1A1a	Other	0.001	162.696	0.206	42.656	Mg	0.001	0.406	97.137	
1A4bi	Biomass	0.248	162.696	0.269	42.656	Mg	0.001	0.402	97.540	
1A2d	Solid	0.648	162.696	0.000	42.656	Mg	0.001	0.335	97.874	
1A2d	Peat	0.646	162.696	0.002	42.656	Mg	0.001	0.330	98.204	
1A2e	Solid	0.613	162.696	0.008	42.656	Mg	0.001	0.302	98.506	
1A3biv	Gasoline	0.130	162.696	0.144	42.656	Mg	0.001	0.216	98.722	
1A4aii	Liquid	0.227	162.696	0.157	42.656	Mg	0.001	0.193	98.915	
1A4bii	Liquid	0.075	162.696	0.089	42.656	Mg	0.000	0.136	99.051	
2B10a		0.270	162.696	0.003	42.656	Mg	0.000	0.134	99.185	
1A2gviii	Biomass	0.699	162.696	0.134	42.656	Mg	0.000	0.098	99.283	
1A2e	Peat	0.216	162.696	0.091	42.656	Mg	0.000	0.068	99.351	
1A3bi	Gaseous	0.005	162.696	0.034	42.656	Mg	0.000	0.063	99.415	
1A2d	Liquid	0.022	162.696	0.037	42.656	Mg	0.000	0.063	99.477	
1A4bi	Peat	0.143	162.696	0.009	42.656	Mg	0.000	0.055	99.532	
2C2		0.003	162.696	0.024	42.656	Mg	0.000	0.045	99.578	
1A4ci	Biomass	0.039	162.696	0.032	42.656	Mg	0.000	0.044	99.622	
1A2d	Biomass	0.813	162.696	0.191	42.656	Mg	0.000	0.043	99.665	
1A3dii	Liquid	0.100	162.696	0.048	42.656	Mg	0.000	0.043	99.707	
1A4ai	Biomass	0.013	162.696	0.019	42.656	Mg	0.000	0.031	99.739	
1A4ai	Peat	0.026	162.696	0.022	42.656	Mg	0.000	0.029	99.768	
1A2d	Other	0.001	162.696	0.015	42.656	Mg	0.000	0.028	99.796	
1A4ciii	Liquid	0.049	162.696	0.027	42.656	Mg	0.000	0.027	99.823	
2C6		0.000	162.696	0.014	42.656	Mg	0.000	0.027	99.851	
1A2gviii	Peat	0.003	162.696	0.010	42.656	Mg	0.000	0.019	99.870	
1A3biii	Gaseous	0.001	162.696	0.009	42.656	Mg	0.000	0.017	99.887	
1A2gviii	Liquid	0.022	162.696	0.000	42.656	Mg	0.000	0.011	99.898	
1B1b		0.004	162.696	0.006	42.656	Mg	0.000	0.010	99.908	
1A3biii	Liquid	0.000	162.696	0.005	42.656	Mg	0.000	0.010	99.918	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2e	Biomass	0.009	162.696	0.007	42.656	Mg	0.000	0.010	99.928	
1A5a	Liquid	0.029	162.696	0.012	42.656	Mg	0.000	0.009	99.937	
1A3bii	Gasoline	0.009	162.696	0.007	42.656	Mg	0.000	0.009	99.946	
1A2gviii	Other	0.037	162.696	0.014	42.656	Mg	0.000	0.008	99.954	
1A2c	Other	0.016	162.696	0.000	42.656	Mg	0.000	0.008	99.962	
1A1a	Liquid	0.034	162.696	0.005	42.656	Mg	0.000	0.007	99.968	
1A2c	Biomass	0.001	162.696	0.004	42.656	Mg	0.000	0.007	99.975	
1A4ai	Liquid	0.026	162.696	0.004	42.656	Mg	0.000	0.006	99.982	
1A2e	Liquid	0.008	162.696	0.000	42.656	Mg	0.000	0.004	99.986	
1A4ci	Liquid	0.008	162.696	0.001	42.656	Mg	0.000	0.003	99.989	
1A3c	Liquid	0.103	162.696	0.026	42.656	Mg	0.000	0.002	99.991	
1A3biv	Diesel oil	0.006	162.696	0.003	42.656	Mg	0.000	0.002	99.993	
1A2f	Other	0.000	162.696	0.001	42.656	Mg	0.000	0.002	99.995	
5E		0.008	162.696	0.003	42.656	Mg	0.000	0.001	99.996	
1A2f	Biomass	0.000	162.696	0.001	42.656	Mg	0.000	0.001	99.997	
1A2a	Biomass	0.000	162.696	0.000	42.656	Mg	0.000	0.001	100	
5C1bv		0.000	162.696	0.000	42.656	Mg	0.000	0.001	100	
1A2f	Liquid	0.006	162.696	0.002	42.656	Mg	0.000	0.000	100	
1A2b	Liquid	0.001	162.696	0.000	42.656	Mg	0.000	0.000	100	
1A2c	Liquid	0.008	162.696	0.002	42.656	Mg	0.000	0.000	100	

Ni

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		31.000	78.685	1.100	9.781	Mg	0.035	27.456	27.456	Yes
1A4bi	Biomass	1.239	78.685	1.345	9.781	Mg	0.015	11.877	39.333	Yes
1A1a	Solid	5.396	78.685	0.052	9.781	Mg	0.008	6.168	45.501	Yes
1A1a	Peat	1.066	78.685	0.677	9.781	Mg	0.007	5.435	50.935	Yes
1A5a	Biomass	0.010	78.685	0.543	9.781	Mg	0.007	5.400	56.335	Yes
1A1a	Biomass	0.101	78.685	0.525	9.781	Mg	0.007	5.114	61.449	Yes
2C1		2.002	78.685	0.722	9.781	Mg	0.006	4.717	66.166	Yes
1A1b	Liquid	1.875	78.685	0.002	9.781	Mg	0.003	2.305	68.471	Yes
1A4ci	Peat	0.056	78.685	0.226	9.781	Mg	0.003	2.187	70.658	Yes
1A2d	Liquid	2.234	78.685	0.066	9.781	Mg	0.003	2.113	72.771	Yes
1A3bvi		0.164	78.685	0.182	9.781	Mg	0.002	1.613	74.384	Yes
1A2e	Solid	1.401	78.685	0.017	9.781	Mg	0.002	1.563	75.948	Yes
1A2gviii	Liquid	1.361	78.685	0.016	9.781	Mg	0.002	1.532	77.480	Yes
1A1a	Other	0.001	78.685	0.153	9.781	Mg	0.002	1.527	79.007	Yes
2C7b		5.000	78.685	0.769	9.781	Mg	0.002	1.471	80.478	Yes
1A2b	Solid	1.115	78.685	0.003	9.781	Mg	0.002	1.355	81.833	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2d	Biomass	0.475	78.685	0.191	9.781	Mg	0.002	1.314	83.147	
1A2d	Solid	1.036	78.685	0.000	9.781	Mg	0.002	1.283	84.430	
1A4ci	Biomass	0.195	78.685	0.153	9.781	Mg	0.002	1.282	85.712	
1A1a	Liquid	3.688	78.685	0.584	9.781	Mg	0.002	1.249	86.961	
1A2c	Liquid	0.833	78.685	0.214	9.781	Mg	0.001	1.104	88.066	
1A2e	Liquid	1.007	78.685	0.017	9.781	Mg	0.001	1.079	89.145	
1A2f	Solid	2.771	78.685	0.246	9.781	Mg	0.001	0.977	90.122	
1A3bi	Gasoline	0.112	78.685	0.107	9.781	Mg	0.001	0.927	91.048	
1A4ai	Biomass	0.058	78.685	0.096	9.781	Mg	0.001	0.887	91.935	
2B10a		1.052	78.685	0.064	9.781	Mg	0.001	0.670	92.605	
2C7a		0.508	78.685	0.000	9.781	Mg	0.001	0.627	93.232	
1A4ai	Liquid	3.134	78.685	0.446	9.781	Mg	0.001	0.557	93.790	
1A4ci	Liquid	0.971	78.685	0.065	9.781	Mg	0.001	0.551	94.341	
1A3bi	Diesel oil	0.080	78.685	0.062	9.781	Mg	0.001	0.523	94.863	
2G		0.036	78.685	0.056	9.781	Mg	0.001	0.516	95.379	
1A2gviii	Biomass	0.212	78.685	0.076	9.781	Mg	0.001	0.494	95.873	
2C2		0.017	78.685	0.048	9.781	Mg	0.001	0.458	96.331	
1A2e	Peat	0.138	78.685	0.058	9.781	Mg	0.001	0.408	96.739	
1A2d	Peat	0.412	78.685	0.019	9.781	Mg	0.000	0.325	97.064	
1A5a	Liquid	2.531	78.685	0.346	9.781	Mg	0.000	0.317	97.381	
1A3dii	Liquid	1.280	78.685	0.189	9.781	Mg	0.000	0.296	97.677	
1A2c	Biomass	0.000	78.685	0.029	9.781	Mg	0.000	0.285	97.962	
1A4ciii	Liquid	0.056	78.685	0.030	9.781	Mg	0.000	0.233	98.196	
1A2gvii	Liquid	0.021	78.685	0.025	9.781	Mg	0.000	0.228	98.424	
1A3bii	Diesel oil	0.026	78.685	0.025	9.781	Mg	0.000	0.221	98.645	
1A3biii	Diesel oil	0.017	78.685	0.021	9.781	Mg	0.000	0.191	98.836	
1A2d	Other	0.001	78.685	0.017	9.781	Mg	0.000	0.173	99.009	
1A4cii	Liquid	0.021	78.685	0.016	9.781	Mg	0.000	0.137	99.146	
1A2e	Biomass	0.005	78.685	0.014	9.781	Mg	0.000	0.129	99.275	
1A2gviii	Other	0.021	78.685	0.015	9.781	Mg	0.000	0.123	99.398	
1A4ai	Peat	0.017	78.685	0.014	9.781	Mg	0.000	0.117	99.516	
1B1b		0.002	78.685	0.010	9.781	Mg	0.000	0.101	99.616	
1A2gviii	Peat	0.002	78.685	0.007	9.781	Mg	0.000	0.064	99.680	
1A2b	Liquid	0.124	78.685	0.009	9.781	Mg	0.000	0.063	99.743	
1A4aii	Liquid	0.009	78.685	0.006	9.781	Mg	0.000	0.053	99.796	
1A4bi	Peat	0.091	78.685	0.006	9.781	Mg	0.000	0.053	99.848	
1A3biv	Gasoline	0.005	78.685	0.006	9.781	Mg	0.000	0.053	99.901	
1A4bii	Liquid	0.003	78.685	0.004	9.781	Mg	0.000	0.033	99.934	
1A3bi	Gaseous	0.000	78.685	0.001	9.781	Mg	0.000	0.013	99.947	
1A2f	Other	0.000	78.685	0.001	9.781	Mg	0.000	0.012	99.959	
1A2c	Other	0.009	78.685	0.000	9.781	Mg	0.000	0.011	99.970	
5C1bv		0.000	78.685	0.001	9.781	Mg	0.000	0.006	99.976	
1A3c	Liquid	0.004	78.685	0.001	9.781	Mg	0.000	0.005	99.982	
1A2f	Liquid	0.676	78.685	0.084	9.781	Mg	0.000	0.004	99.986	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A3biii	Gaseous	0.000	78.685	0.000	9.781	Mg	0.000	0.004	99.990	
1A2a	Biomass	0.000	78.685	0.000	9.781	Mg	0.000	0.003	99.993	
1A3bii	Gasoline	0.000	78.685	0.000	9.781	Mg	0.000	0.002	99.995	
1A2f	Biomass	0.000	78.685	0.000	9.781	Mg	0.000	0.002	100	
1A3biii	Liquid	0.000	78.685	0.000	9.781	Mg	0.000	0.002	100	
1A3biv	Diesel oil	0.000	78.685	0.000	9.781	Mg	0.000	0.001	100	

Se

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C7c		1.400	1.874	0.002	0.349	Mg	0.138	47.322	47.322	Yes
1A4bi	Biomass	0.206	1.874	0.224	0.349	Mg	0.099	33.946	81.268	Yes
1A3bvi		0.026	1.874	0.029	0.349	Mg	0.013	4.451	85.720	
1A4ci	Biomass	0.033	1.874	0.025	0.349	Mg	0.010	3.497	89.217	
1A4ai	Biomass	0.010	1.874	0.016	0.349	Mg	0.008	2.603	91.820	
1A3bi	Gasoline	0.016	1.874	0.015	0.349	Mg	0.006	2.217	94.037	
1A3bi	Diesel oil	0.011	1.874	0.009	0.349	Mg	0.004	1.241	95.278	
2C7a		0.050	1.874	0.003	0.349	Mg	0.004	1.209	96.487	
1A3dii	Liquid	0.014	1.874	0.006	0.349	Mg	0.002	0.572	97.059	
1A2gvii	Liquid	0.003	1.874	0.004	0.349	Mg	0.002	0.565	97.624	
1A3bii	Diesel oil	0.004	1.874	0.004	0.349	Mg	0.002	0.540	98.163	
1A3biii	Diesel oil	0.002	1.874	0.003	0.349	Mg	0.001	0.485	98.648	
1A4ciii	Liquid	0.006	1.874	0.003	0.349	Mg	0.001	0.365	99.013	
1A4cii	Liquid	0.003	1.874	0.002	0.349	Mg	0.001	0.324	99.337	
1A5a	Liquid	0.001	1.874	0.001	0.349	Mg	0.000	0.135	99.472	
5C1bv		0.000	1.874	0.001	0.349	Mg	0.000	0.132	99.604	
1A3biv	Gasoline	0.001	1.874	0.001	0.349	Mg	0.000	0.128	99.732	
1A4aii	Liquid	0.001	1.874	0.001	0.349	Mg	0.000	0.124	99.856	
1A4bii	Liquid	0.000	1.874	0.001	0.349	Mg	0.000	0.081	99.936	
1A3bi	Gaseous	0.000	1.874	0.000	0.349	Mg	0.000	0.035	99.971	
1A3biii	Gaseous	0.000	1.874	0.000	0.349	Mg	0.000	0.009	99.980	
1A3c	Liquid	0.001	1.874	0.000	0.349	Mg	0.000	0.007	99.988	
1A3bii	Gasoline	0.000	1.874	0.000	0.349	Mg	0.000	0.006	100	
1A3biii	Liquid	0.000	1.874	0.000	0.349	Mg	0.000	0.005	100	
1A3biv	Diesel oil	0.000	1.874	0.000	0.349	Mg	0.000	0.002	100	

Zn

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C1		303.559	686.187	1.781	113.633	Mg	0.071	27.306	27.306	Yes
1A4bi	Biomass	28.903	686.187	31.380	113.633	Mg	0.039	14.976	42.282	Yes
2C7c		160.391	686.187	1.164	113.633	Mg	0.037	14.302	56.584	Yes
1A3bvi		18.420	686.187	18.119	113.633	Mg	0.022	8.486	65.069	Yes
1A5a	Biomass	0.238	686.187	12.663	113.633	Mg	0.018	7.109	72.178	Yes
1A1a	Biomass	2.327	686.187	11.505	113.633	Mg	0.016	6.262	78.440	Yes
2C6		90.174	686.187	7.741	113.633	Mg	0.010	4.050	82.490	Yes
1A1a	Solid	28.018	686.187	0.130	113.633	Mg	0.007	2.540	85.029	
1A1b	Liquid	3.869	686.187	5.040	113.633	Mg	0.006	2.477	87.507	
1A1a	Other	0.016	686.187	3.736	113.633	Mg	0.005	2.103	89.609	
1A4ci	Biomass	4.550	686.187	3.565	113.633	Mg	0.004	1.583	91.193	
1A4ai	Biomass	1.355	686.187	2.243	113.633	Mg	0.003	1.137	92.329	
1A2gviii	Biomass	4.949	686.187	2.151	113.633	Mg	0.002	0.750	93.079	
1A3bi	Gasoline	1.580	686.187	1.509	113.633	Mg	0.002	0.702	93.781	
1A1a	Peat	2.706	686.187	1.629	113.633	Mg	0.002	0.665	94.446	
1A2gviii	Other	0.221	686.187	1.125	113.633	Mg	0.002	0.613	95.059	
1A2d	Biomass	10.754	686.187	0.905	113.633	Mg	0.001	0.493	95.552	
2C2		0.100	686.187	0.779	113.633	Mg	0.001	0.429	95.981	
1A2f	Other	0.000	686.187	0.740	113.633	Mg	0.001	0.417	96.398	
1A3bi	Diesel oil	1.141	686.187	0.890	113.633	Mg	0.001	0.395	96.793	
1A2d	Solid	3.342	686.187	0.001	113.633	Mg	0.001	0.311	97.104	
1A4ci	Peat	0.132	686.187	0.533	113.633	Mg	0.001	0.288	97.392	
1A2f	Liquid	0.327	686.187	0.521	113.633	Mg	0.001	0.263	97.655	
2C7a		2.563	686.187	0.005	113.633	Mg	0.001	0.236	97.891	
1A2e	Solid	2.627	686.187	0.033	113.633	Mg	0.001	0.227	98.118	
1A2f	Solid	5.497	686.187	0.517	113.633	Mg	0.001	0.222	98.339	
2G		0.127	686.187	0.408	113.633	Mg	0.001	0.218	98.557	
1A2gvii	Liquid	0.296	686.187	0.364	113.633	Mg	0.000	0.177	98.735	
1A3bii	Diesel oil	0.367	686.187	0.363	113.633	Mg	0.000	0.170	98.905	
1A2d	Other	0.016	686.187	0.298	113.633	Mg	0.000	0.166	99.071	
1A3biii	Diesel oil	0.249	686.187	0.317	113.633	Mg	0.000	0.155	99.226	
2B10a		0.010	686.187	0.250	113.633	Mg	0.000	0.140	99.366	
1A4cii	Liquid	0.293	686.187	0.232	113.633	Mg	0.000	0.103	99.470	
1A2d	Peat	0.999	686.187	0.007	113.633	Mg	0.000	0.089	99.559	
1A2e	Peat	0.328	686.187	0.139	113.633	Mg	0.000	0.047	99.606	
1A2e	Biomass	0.126	686.187	0.101	113.633	Mg	0.000	0.045	99.651	
1A2f	Biomass	0.003	686.187	0.079	113.633	Mg	0.000	0.044	99.696	
1A3biv	Gasoline	0.076	686.187	0.084	113.633	Mg	0.000	0.040	99.736	
1A4aii	Liquid	0.134	686.187	0.092	113.633	Mg	0.000	0.040	99.775	
1A2d	Liquid	0.110	686.187	0.078	113.633	Mg	0.000	0.034	99.809	
1A4bii	Liquid	0.044	686.187	0.052	113.633	Mg	0.000	0.025	99.834	
1A3dii	Liquid	0.117	686.187	0.063	113.633	Mg	0.000	0.025	99.859	
1A2c	Other	0.215	686.187	0.001	113.633	Mg	0.000	0.019	99.878	
1A2gviii	Peat	0.005	686.187	0.028	113.633	Mg	0.000	0.015	99.893	

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1A4ai	Peat	0.040	686.187	0.033	113.633	Mg	0.000	0.015	99.908	
1A4ciii	Liquid	0.067	686.187	0.036	113.633	Mg	0.000	0.014	99.922	
1A4bi	Peat	0.215	686.187	0.014	113.633	Mg	0.000	0.012	99.934	
1A3bi	Gaseous	0.003	686.187	0.019	113.633	Mg	0.000	0.011	99.945	
2C3		0.127	686.187	0.002	113.633	Mg	0.000	0.011	99.956	
1A2c	Biomass	0.014	686.187	0.016	113.633	Mg	0.000	0.007	99.963	
1A2gviii	Liquid	0.055	686.187	0.002	113.633	Mg	0.000	0.004	99.967	
1A5a	Liquid	0.111	686.187	0.025	113.633	Mg	0.000	0.004	99.971	
1A2a	Biomass	0.000	686.187	0.007	113.633	Mg	0.000	0.004	99.975	
1A2e	Liquid	0.040	686.187	0.001	113.633	Mg	0.000	0.003	99.978	
5C1bv		0.001	686.187	0.006	113.633	Mg	0.000	0.003	99.981	
1A3c	Liquid	0.060	686.187	0.015	113.633	Mg	0.000	0.003	99.984	
1A3biii	Gaseous	0.001	686.187	0.005	113.633	Mg	0.000	0.003	99.987	
1A4ci	Liquid	0.039	686.187	0.003	113.633	Mg	0.000	0.002	99.989	
1A3bii	Gasoline	0.005	686.187	0.004	113.633	Mg	0.000	0.002	99.991	
1A3biii	Liquid	0.000	686.187	0.003	113.633	Mg	0.000	0.002	99.993	
1A4ai	Liquid	0.125	686.187	0.018	113.633	Mg	0.000	0.002	99.994	
1A1a	Liquid	0.170	686.187	0.025	113.633	Mg	0.000	0.002	100	
1A2c	Liquid	0.040	686.187	0.009	113.633	Mg	0.000	0.002	100	
1B1b		0.160	686.187	0.029	113.633	Mg	0.000	0.002	100	
1A3biv	Diesel oil	0.003	686.187	0.001	113.633	Mg	0.000	0.001	100	
1A2b	Liquid	0.005	686.187	0.000	113.633	Mg	0.000	0.000	100	

PCDD/F

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Biomass	0.151	16.604	1.677	8.699	g I-Teq	0.096	18.296	18.296	Yes
2B10a		3.000	16.604	0.030	8.699	g I-Teq	0.093	17.654	35.950	Yes
2C1		4.552	16.604	1.107	8.699	g I-Teq	0.077	14.627	50.576	Yes
5E		3.498	16.604	1.265	8.699	g I-Teq	0.034	6.501	57.077	Yes
1A1a	Other	0.002	16.604	0.525	8.699	g I-Teq	0.032	5.994	63.071	Yes
1A4bi	Biomass	0.867	16.604	0.941	8.699	g I-Teq	0.029	5.578	68.649	Yes
1A2d	Biomass	0.808	16.604	0.858	8.699	g I-Teq	0.026	4.976	73.625	Yes
1A5a	Biomass	0.007	16.604	0.380	8.699	g I-Teq	0.023	4.307	77.932	Yes
1A3bi	Gasoline	0.962	16.604	0.172	8.699	g I-Teq	0.020	3.800	81.732	Yes
1A3bi	Diesel oil	0.008	16.604	0.243	8.699	g I-Teq	0.014	2.733	84.465	
2C7a		0.001	16.604	0.203	8.699	g I-Teq	0.012	2.324	86.789	
1A1a	Peat	0.747	16.604	0.214	8.699	g I-Teq	0.011	2.025	88.814	
1A1a	Solid	0.411	16.604	0.040	8.699	g I-Teq	0.011	2.002	90.817	
1A3bii	Diesel oil	0.004	16.604	0.118	8.699	g I-Teq	0.007	1.320	92.137	
1A2gviii	Other	0.192	16.604	0.024	8.699	g I-Teq	0.005	0.877	93.014	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2gviii	Biomass	0.199	16.604	0.176	8.699	g I-Teq	0.004	0.821	93.835	
1A2d	Other	0.009	16.604	0.057	8.699	g I-Teq	0.003	0.594	94.429	
1A3biii	Diesel oil	0.217	16.604	0.064	8.699	g I-Teq	0.003	0.563	94.992	
1A2f	Other	0.000	16.604	0.048	8.699	g I-Teq	0.003	0.553	95.546	
1A4ai	Biomass	0.041	16.604	0.067	8.699	g I-Teq	0.003	0.527	96.072	
2C6		0.038	16.604	0.066	8.699	g I-Teq	0.003	0.525	96.597	
1A4ci	Biomass	0.137	16.604	0.108	8.699	g I-Teq	0.002	0.420	97.017	
1A2d	Peat	0.149	16.604	0.046	8.699	g I-Teq	0.002	0.372	97.389	
1A4ci	Peat	0.007	16.604	0.029	8.699	g I-Teq	0.002	0.286	97.675	
1A2d	Solid	0.045	16.604	0.000	8.699	g I-Teq	0.001	0.267	97.942	
1A3bii	Gasoline	0.024	16.604	0.001	8.699	g I-Teq	0.001	0.135	98.077	
1A1b	Liquid	0.019	16.604	0.022	8.699	g I-Teq	0.001	0.134	98.211	
1A2e	Biomass	0.007	16.604	0.015	8.699	g I-Teq	0.001	0.130	98.341	
1A2f	Liquid	0.002	16.604	0.012	8.699	g I-Teq	0.001	0.125	98.466	
2L		0.029	16.604	0.005	8.699	g I-Teq	0.001	0.122	98.588	
1A2d	Gaseous	0.016	16.604	0.019	8.699	g I-Teq	0.001	0.122	98.710	
1A2f	Solid	0.024	16.604	0.003	8.699	g I-Teq	0.001	0.117	98.826	
1A2a	Solid	0.024	16.604	0.003	8.699	g I-Teq	0.001	0.112	98.938	
1A4bi	Liquid	0.019	16.604	0.001	8.699	g I-Teq	0.001	0.100	99.038	
2C3		0.041	16.604	0.014	8.699	g I-Teq	0.000	0.082	99.120	
1A2c	Other	0.014	16.604	0.000	8.699	g I-Teq	0.000	0.077	99.197	
1A4bi	Peat	0.011	16.604	0.001	8.699	g I-Teq	0.000	0.060	99.257	
1A2c	Biomass	0.012	16.604	0.001	8.699	g I-Teq	0.000	0.059	99.315	
1A3dii	Liquid	0.026	16.604	0.008	8.699	g I-Teq	0.000	0.058	99.374	
1A3biv	Gasoline	0.014	16.604	0.012	8.699	g I-Teq	0.000	0.052	99.426	
1A5a	Gaseous	0.001	16.604	0.005	8.699	g I-Teq	0.000	0.045	99.472	
1A2e	Solid	0.007	16.604	0.000	8.699	g I-Teq	0.000	0.041	99.513	
1A2gviii	Peat	0.004	16.604	0.005	8.699	g I-Teq	0.000	0.036	99.548	
1A2f	Biomass	0.000	16.604	0.003	8.699	g I-Teq	0.000	0.035	99.584	
1A1a	Gaseous	0.020	16.604	0.008	8.699	g I-Teq	0.000	0.033	99.617	
1B1b		0.014	16.604	0.005	8.699	g I-Teq	0.000	0.032	99.649	
1A3biii	Liquid	0.000	16.604	0.003	8.699	g I-Teq	0.000	0.029	99.678	
2A3		0.005	16.604	0.000	8.699	g I-Teq	0.000	0.028	99.706	
1A2a	Gaseous	0.001	16.604	0.003	8.699	g I-Teq	0.000	0.028	99.735	
2D3b		0.016	16.604	0.006	8.699	g I-Teq	0.000	0.027	99.762	
1A3bi	Gaseous	0.000	16.604	0.002	8.699	g I-Teq	0.000	0.024	99.785	
1A2e	Peat	0.028	16.604	0.012	8.699	g I-Teq	0.000	0.023	99.808	
1A4ai	Liquid	0.012	16.604	0.005	8.699	g I-Teq	0.000	0.017	99.825	
1A3biv	Diesel oil	0.000	16.604	0.001	8.699	g I-Teq	0.000	0.015	99.840	
2A2		0.038	16.604	0.019	8.699	g I-Teq	0.000	0.015	99.855	
1A2c	Liquid	0.005	16.604	0.004	8.699	g I-Teq	0.000	0.014	99.870	
1A2d	Liquid	0.005	16.604	0.002	8.699	g I-Teq	0.000	0.012	99.882	
1A1a	Liquid	0.007	16.604	0.005	8.699	g I-Teq	0.000	0.012	99.894	
1A2c	Gaseous	0.001	16.604	0.001	8.699	g I-Teq	0.000	0.011	99.905	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1b	Gaseous	0.004	16.604	0.001	8.699	g I-Teq	0.000	0.011	99.915	
5C1bv		0.000	16.604	0.001	8.699	g I-Teq	0.000	0.010	99.926	
1A2gviii	Liquid	0.003	16.604	0.001	8.699	g I-Teq	0.000	0.010	99.936	
1A5a	Liquid	0.009	16.604	0.006	8.699	g I-Teq	0.000	0.008	99.944	
1A2a	Liquid	0.001	16.604	0.000	8.699	g I-Teq	0.000	0.008	99.951	
1A4ai	Peat	0.002	16.604	0.002	8.699	g I-Teq	0.000	0.007	99.959	
1A2e	Liquid	0.002	16.604	0.000	8.699	g I-Teq	0.000	0.007	99.965	
1A4ci	Liquid	0.004	16.604	0.002	8.699	g I-Teq	0.000	0.006	99.971	
2A1		0.029	16.604	0.015	8.699	g I-Teq	0.000	0.005	99.976	
1A3biii	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.004	99.980	
1A1b	Biomass	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.004	99.983	
1A2e	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.002	99.986	
1A2a	Biomass	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.002	99.988	
1A2b	Liquid	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.002	99.990	
1A4ciii	Liquid	0.007	16.604	0.004	8.699	g I-Teq	0.000	0.002	99.992	
1A4ci	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.002	99.994	
1A1b	Solid	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.001	99.995	
1A2gviii	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.001	99.996	
2G		0.001	16.604	0.000	8.699	g I-Teq	0.000	0.001	99.997	
1A2b	Solid	0.002	16.604	0.001	8.699	g I-Teq	0.000	0.001	99.998	
1A4ai	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.001	100	
1A2f	Gaseous	0.001	16.604	0.000	8.699	g I-Teq	0.000	0.001	100	
1A4bi	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.000	100	
1A4bi	Other	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.000	100	
1A3ei	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.000	100	
1A2b	Gaseous	0.000	16.604	0.000	8.699	g I-Teq	0.000	0.000	100	

PAH-4

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Biomass	0.019	18.176	0.260	18.399	Mg	0.013	15.519	15.519	Yes
1A1a	Other	0.000	18.176	0.230	18.399	Mg	0.013	14.824	30.343	Yes
1A4bi	Biomass	17.153	18.176	17.140	18.399	Mg	0.012	14.430	44.772	Yes
1A2gviii	Other	0.017	18.176	0.187	18.399	Mg	0.009	10.968	55.740	Yes
2C1		0.132	18.176	0.005	18.399	Mg	0.007	8.313	64.054	Yes
1A4bi	Liquid	0.109	18.176	0.007	18.399	Mg	0.006	6.644	70.698	Yes
1A5a	Biomass	0.001	18.176	0.049	18.399	Mg	0.003	3.095	73.793	Yes
1A4ai	Liquid	0.074	18.176	0.028	18.399	Mg	0.003	2.992	76.785	Yes
1A3bi	Diesel oil	0.041	18.176	0.086	18.399	Mg	0.002	2.866	79.651	Yes
1A5a	Liquid	0.045	18.176	0.012	18.399	Mg	0.002	2.197	81.848	Yes
1A1a	Liquid	0.050	18.176	0.021	18.399	Mg	0.002	1.940	83.788	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A1a	Peat	0.043	18.176	0.014	18.399	Mg	0.002	1.884	85.671	
1A2d	Biomass	0.105	18.176	0.079	18.399	Mg	0.001	1.758	87.429	
1A2d	Liquid	0.037	18.176	0.011	18.399	Mg	0.001	1.734	89.163	
1A3bi	Gasoline	0.046	18.176	0.029	18.399	Mg	0.001	1.076	90.239	
1A4ci	Liquid	0.025	18.176	0.009	18.399	Mg	0.001	1.060	91.300	
1A2gviii	Liquid	0.015	18.176	0.002	18.399	Mg	0.001	0.853	92.152	
1A3bii	Diesel oil	0.024	18.176	0.037	18.399	Mg	0.001	0.825	92.977	
1A2e	Liquid	0.010	18.176	0.001	18.399	Mg	0.001	0.644	93.621	
2D3i		0.020	18.176	0.011	18.399	Mg	0.001	0.610	94.232	
1A3biii	Diesel oil	0.053	18.176	0.046	18.399	Mg	0.000	0.516	94.748	
1A2d	Peat	0.009	18.176	0.002	18.399	Mg	0.000	0.423	95.171	
1A2d	Other	0.001	18.176	0.007	18.399	Mg	0.000	0.408	95.579	
1A2c	Liquid	0.009	18.176	0.003	18.399	Mg	0.000	0.396	95.975	
1A1b	Liquid	0.006	18.176	0.000	18.399	Mg	0.000	0.377	96.352	
1B1b		0.000	18.176	0.006	18.399	Mg	0.000	0.354	96.706	
1A4cii	Liquid	0.023	18.176	0.019	18.399	Mg	0.000	0.335	97.041	
1A2gvii	Liquid	0.024	18.176	0.029	18.399	Mg	0.000	0.333	97.374	
1A2a	Liquid	0.005	18.176	0.000	18.399	Mg	0.000	0.303	97.677	
1A3c	Liquid	0.005	18.176	0.001	18.399	Mg	0.000	0.238	97.914	
1A4aii	Liquid	0.011	18.176	0.007	18.399	Mg	0.000	0.221	98.135	
1A2f	Liquid	0.008	18.176	0.005	18.399	Mg	0.000	0.202	98.337	
1A2f	Other	0.000	18.176	0.003	18.399	Mg	0.000	0.186	98.523	
1A2gviii	Biomass	0.027	18.176	0.029	18.399	Mg	0.000	0.169	98.692	
1A3dii	Liquid	0.004	18.176	0.002	18.399	Mg	0.000	0.147	98.839	
1A2c	Biomass	0.002	18.176	0.001	18.399	Mg	0.000	0.102	98.942	
1A3bii	Gasoline	0.001	18.176	0.000	18.399	Mg	0.000	0.089	99.031	
2G		0.002	18.176	0.001	18.399	Mg	0.000	0.082	99.114	
1A4ci	Peat	0.000	18.176	0.002	18.399	Mg	0.000	0.080	99.193	
1A1a	Solid	0.001	18.176	0.000	18.399	Mg	0.000	0.073	99.266	
1A2e	Biomass	0.001	18.176	0.002	18.399	Mg	0.000	0.072	99.338	
1A2b	Liquid	0.003	18.176	0.002	18.399	Mg	0.000	0.071	99.409	
5C1bv		0.000	18.176	0.001	18.399	Mg	0.000	0.066	99.475	
1A2e	Peat	0.002	18.176	0.001	18.399	Mg	0.000	0.057	99.532	
1A3biii	Gaseous	0.000	18.176	0.001	18.399	Mg	0.000	0.047	99.579	
1A4bii	Liquid	0.004	18.176	0.004	18.399	Mg	0.000	0.040	99.619	
1A4bi	Peat	0.001	18.176	0.000	18.399	Mg	0.000	0.040	99.658	
1A3biv	Gasoline	0.001	18.176	0.001	18.399	Mg	0.000	0.039	99.698	
1A4ciii	Liquid	0.001	18.176	0.001	18.399	Mg	0.000	0.039	99.736	
1A2c	Other	0.001	18.176	0.000	18.399	Mg	0.000	0.038	99.774	
1A4ai	Biomass	0.001	18.176	0.002	18.399	Mg	0.000	0.037	99.811	
1A3biii	Liquid	0.000	18.176	0.001	18.399	Mg	0.000	0.036	99.847	
1A4ci	Biomass	0.003	18.176	0.003	18.399	Mg	0.000	0.032	99.879	
1A3bi	Gaseous	0.000	18.176	0.000	18.399	Mg	0.000	0.026	99.905	
1A2f	Biomass	0.000	18.176	0.000	18.399	Mg	0.000	0.025	99.930	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2C2		0.000	18.176	0.000	18.399	Mg	0.000	0.017	99.948	
1A2gviii	Peat	0.000	18.176	0.000	18.399	Mg	0.000	0.011	99.959	
1A3biv	Diesel oil	0.000	18.176	0.000	18.399	Mg	0.000	0.011	99.970	
1A2d	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.009	99.979	
1A4bi	Other	0.000	18.176	0.000	18.399	Mg	0.000	0.008	99.987	
1A2f	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.004	99.991	
2A1		0.000	18.176	0.000	18.399	Mg	0.000	0.002	99.993	
1A2a	Biomass	0.000	18.176	0.000	18.399	Mg	0.000	0.002	99.995	
1A4ai	Peat	0.000	18.176	0.000	18.399	Mg	0.000	0.001	99.996	
1A2e	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.001	99.998	
1A2b	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.001	100	
1A2a	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.001	100	
1A1b	Solid	0.000	18.176	0.000	18.399	Mg	0.000	0.000	100	

HCB

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
2B10a		29.000	35.471	15.700	22.753	kg	0.082	47.995	47.995	Yes
2C7a		5.514	35.471	5.968	22.753	kg	0.069	40.199	88.194	Yes
1A1a	Biomass	0.037	35.471	0.480	22.753	kg	0.013	7.551	95.745	
1A4bi	Biomass	0.206	35.471	0.224	22.753	kg	0.003	1.517	97.261	
2C1		0.096	35.471	0.013	22.753	kg	0.001	0.807	98.069	
1A2gviii	Biomass	0.049	35.471	0.051	22.753	kg	0.001	0.329	98.398	
1A5a	Biomass	0.000	35.471	0.018	22.753	kg	0.001	0.299	98.697	
1A2gviii		0.143	35.471	0.076	22.753	kg	0.000	0.260	98.957	
3Df		0.057	35.471	0.026	22.753	kg	0.000	0.184	99.141	
1A4ai	Biomass	0.010	35.471	0.016	22.753	kg	0.000	0.164	99.305	
2C3		0.033	35.471	0.011	22.753	kg	0.000	0.158	99.463	
5C1bv		0.001	35.471	0.006	22.753	kg	0.000	0.082	99.545	
1A2d	Solid	0.007	35.471	0.000	22.753	kg	0.000	0.073	99.618	
1A4ci	Biomass	0.033	35.471	0.025	22.753	kg	0.000	0.072	99.690	
1A2e	Biomass	0.002	35.471	0.003	22.753	kg	0.000	0.039	99.729	
1A2f	Solid	0.004	35.471	0.000	22.753	kg	0.000	0.036	99.765	
1A3dii	Liquid	0.010	35.471	0.004	22.753	kg	0.000	0.033	99.798	
1A2d	Biomass	0.191	35.471	0.121	22.753	kg	0.000	0.029	99.827	
1A2c	Biomass	0.003	35.471	0.000	22.753	kg	0.000	0.028	99.854	
1A2a	Solid	0.003	35.471	0.000	22.753	kg	0.000	0.025	99.879	
1A1a	Other	0.000	35.471	0.001	22.753	kg	0.000	0.022	99.901	
1A2b	Solid	0.002	35.471	0.000	22.753	kg	0.000	0.019	99.920	
2D3i		0.004	35.471	0.002	22.753	kg	0.000	0.016	99.936	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A2gviii	Other	0.000	35.471	0.001	22.753	kg	0.000	0.015	99.952	
1A2f	Biomass	0.000	35.471	0.001	22.753	kg	0.000	0.012	99.964	
1A2e	Solid	0.001	35.471	0.000	22.753	kg	0.000	0.011	99.975	
1A4ciii	Liquid	0.004	35.471	0.002	22.753	kg	0.000	0.007	99.982	
1A1a	Solid	0.001	35.471	0.000	22.753	kg	0.000	0.006	99.988	
1A5a	Liquid	0.001	35.471	0.001	22.753	kg	0.000	0.005	99.993	
1A2d	Other	0.000	35.471	0.000	22.753	kg	0.000	0.003	99.997	
1A3bi	Diesel oil	0.000	35.471	0.000	22.753	kg	0.000	0.001	99.998	
1A2a	Biomass	0.000	35.471	0.000	22.753	kg	0.000	0.001	99.998	
1A3bi	Gasoline	0.000	35.471	0.000	22.753	kg	0.000	0.001	99.999	
1A3bii	Diesel oil	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3biii	Diesel oil	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3biv	Gasoline	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3bi	Gaseous	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3biii	Liquid	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3bii	Gasoline	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	
1A3biii	Gaseous	0.000	35.471	0.000	22.753	kg	0.000	0.000	100	

PCB

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1B1b		1.753	25.579	2.826	13.916	kg	0.073	31.590	31.590	Yes
2C1		13.464	25.579	8.672	13.916	kg	0.053	22.722	54.312	Yes
1A2d	Solid	1.907	25.579	0.008	13.916	kg	0.040	17.366	71.678	Yes
1A2f	Solid	1.037	25.579	0.071	13.916	kg	0.019	8.320	79.998	Yes
1A2a	Solid	0.784	25.579	0.087	13.916	kg	0.013	5.737	85.735	Yes
1A1a	Biomass	0.026	25.579	0.336	13.916	kg	0.013	5.435	91.170	
1A2b	Solid	0.551	25.579	0.037	13.916	kg	0.010	4.425	95.596	
1A2e	Solid	0.298	25.579	0.004	13.916	kg	0.006	2.671	98.267	
1A2gviii		0.135	25.579	0.016	13.916	kg	0.002	0.971	99.238	
5C1bv		0.003	25.579	0.016	13.916	kg	0.001	0.234	99.472	
1A3dii	Liquid	0.024	25.579	0.004	13.916	kg	0.000	0.147	99.619	
2A1		3.298	25.579	1.788	13.916	kg	0.000	0.114	99.733	
2C3		0.083	25.579	0.038	13.916	kg	0.000	0.114	99.847	
2C7c		0.002	25.579	0.004	13.916	kg	0.000	0.058	99.905	
1A4bi	Liquid	0.003	25.579	0.000	13.916	kg	0.000	0.026	99.932	
1A4bi	Biomass	0.002	25.579	0.003	13.916	kg	0.000	0.023	99.955	
1A1a	Other	0.000	25.579	0.001	13.916	kg	0.000	0.016	99.970	
1A2gviii	Biomass	0.001	25.579	0.001	13.916	kg	0.000	0.005	99.975	

NFR Code	Fuel	Base year emission of the NFR category	Base year total emission	Year 2024 emission of the NFR category	Year 2024 total emission	Unit	Trend assessment	Contribution to trend. %	Cumulative total. %	Key source
1A4ai	Liquid	0.002	25.579	0.001	13.916	kg	0.000	0.005	99.980	
1A4ci	Liquid	0.001	25.579	0.000	13.916	kg	0.000	0.004	99.984	
1A2d	Biomass	0.002	25.579	0.001	13.916	kg	0.000	0.003	99.988	
1A1a	Solid	0.000	25.579	0.000	13.916	kg	0.000	0.002	99.990	
1A4ai	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.002	99.992	
1A4ci	Peat	0.000	25.579	0.000	13.916	kg	0.000	0.002	99.994	
1A4ci	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.002	99.995	
1A3bi	Gasoline	0.000	25.579	0.000	13.916	kg	0.000	0.001	99.997	
1A3bi	Diesel oil	0.000	25.579	0.000	13.916	kg	0.000	0.001	99.997	
1A2e	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.001	99.998	
1A4bi	Peat	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.998	
1A3bii	Diesel oil	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.999	
1A2c	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.999	
1A3bii	Gasoline	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.999	
1A2gviii	Other	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.999	
1A3biii	Diesel oil	0.000	25.579	0.000	13.916	kg	0.000	0.000	99.999	
1A2f	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
2C7a		0.001	25.579	0.000	13.916	kg	0.000	0.000	100	
2A2		0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A3biv	Gasoline	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A4ai	Peat	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A2d	Other	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A4ciii	Liquid	0.002	25.579	0.001	13.916	kg	0.000	0.000	100	
1A2a	Biomass	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A3biii	Liquid	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A3bi	Gaseous	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A3biv	Diesel oil	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	
1A3biii	Gaseous	0.000	25.579	0.000	13.916	kg	0.000	0.000	100	

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_ehk_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)

Select variable
About table

Mark your selections and choose between table on screen and file format. Marking tips
For variables marked * you need to select at least one value

Year *	Source *	Tiedot *
<input checked="" type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/>	<input checked="" type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/>	<input checked="" type="checkbox"/> - <input type="checkbox"/> + <input type="checkbox"/>
Total 48 Selected 0	Total 26 Selected 0	Total 4 Selected 0
<div style="border: 1px solid #ccc; padding: 2px;"> 2012 2013 2014 2015 2016 2017 </div>	<div style="border: 1px solid #ccc; padding: 2px;"> Diesel fuel Refinery gases etc. Town gas Light fuel oil Recycled fuels Recycled oil </div>	<div style="border: 1px solid #ccc; padding: 2px;"> Quantity, TJ TWh Share % Annual change % </div>
Search <input type="text"/> <input type="button" value="▶"/> <input type="checkbox"/> Beginning of row	Search <input type="text"/> <input type="button" value="▶"/> <input type="checkbox"/> Beginning of row	Search <input type="text"/> <input type="button" value="▶"/> <input type="checkbox"/> Beginning of row

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