

National emissions reported to the Convention on Long-range Transboundary Air Pollution (LRTAP Convention), v1.2, 2024

Data on emissions of air pollutants submitted to the LRTAP Convention and copied to EEA. Data compiled are annual national total and sectoral emissions of air pollutants and associated activity data reported by EEA member and cooperating countries. Data are available for download in the UNECE/EMEP Nomenclature for Reporting (NFR19) format used by countries. A consolidated dataset for all countries in the NFR19 format and consistent with the European Union's air pollutant emission inventory submission to the LRTAP Convention is also provided.

A revision has been made to the table structure to ensure more consistent and stable use of unit codes, pollutant codes, and attribute names. The database is now available in a format that supports the 2018-2023 versions, as well as a new 2024 format that will be used going forward.

Simple

Date (Creation)	2024-08-05T10:22:58+00:00				
Date (Publication)	2024-08-30T10:22:58+00:00				
Edition	01.01				
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Code	10.2909/bdedcfc-c7ec-4eec-a5e6-dacc13aad7af				
Purpose	<p>Pollutants: carbon monoxide (CO), ammonia (NH₃), non-methane volatile organic compounds (NMVOC), nitrogen oxides (NO_x - as NO₂), sulphur oxides (SO_x - as SO₂), particulate matter (PM₁₀, PM_{2.5}, total suspended particulate TSP, black carbon BC) in Gg (1000 tonnes);</p> <p>Pollutants: arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), mercury (Hg), nickel (Ni), lead (Pb), selenium (Se), zinc (Zn), benzo (a) pyrene (BaP), benzo (b) fluoranthene, benzo (k) fluoranthene, indeno (1,2,3-cd) pyrene, total PAH (1-4), in Mg (tonnes);</p> <p>Pollutants: hexachlorobenzene (HCB), polychlorinated biphenyls (PCB) in kilograms;</p> <p>Pollutant: Dioxins and furans in grams I-TEQ.</p> <p>Activity data: see units specified in data set.</p>				
Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Environment Agency				Point of contact
	European Environment Agency			http://www.eea.europa.eu/organization	Distributor
	European Topic Centre on Air and Climate Change (ETC/ACC)			http://air-climate.eionet.europa.eu	Processor
Point of contact	No information provided.				
Maintenance and update frequency	Annually				
Reporting obligations	<ul style="list-style-type: none"> LRTAP Convention - National emission inventories 				
EEA Management Plan	<ul style="list-style-type: none"> 2024 3.1.1 				

EEA topics	<ul style="list-style-type: none"> • Air pollution
Keywords	
Keywords	
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • Liechtenstein • Slovakia • Estonia • Croatia • Greece • Romania • Denmark • Germany • Spain • Switzerland • Türkiye • Finland • Lithuania • Belgium • Iceland • Poland • Bulgaria • Portugal • Hungary • Malta • Czechia • Netherlands • France • Cyprus • Latvia • Ireland • Austria • Norway • Italy • Sweden • Slovenia • Luxembourg
Use limitation	<p>EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (https://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).</p>
Access constraints	Other restrictions
Other constraints	No limitations to public access

Language of dataset	English												
Topic category	<ul style="list-style-type: none"> Environment 												
Begin date	1980-01-01												
End date	2022-12-31												
Additional Information	<p>Units:</p> <p>Pollutants: carbon monoxide (CO), ammonia (NH₃), non-methane volatile organic compounds (NMVOC), nitrogen oxides (NO_x - as NO₂), sulphur oxides (SO_x - as SO₂), particulate matter (PM₁₀, PM_{2.5}, total suspended particulate TSP, black carbon BC) in Gg (1000 tonnes);</p> <p>Pollutants: arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), mercury (Hg), nickel (Ni), lead (Pb), selenium (Se), zinc (Zn), benzo (a) pyrene (BaP), benzo (b) fluoranthene, benzo (k) fluoranthene, indeno (1,2,3-cd) pyrene, total PAH (1-4), in Mg (tonnes);</p> <p>Pollutants: hexachlorobenzene (HCB), polychlorinated biphenyls (PCB) in kilograms;</p> <p>Pollutant: Dioxins and furans in grams I-TEQ.</p> <p>Activity data: see units specified in data set.</p> <p>Data sources</p> <p>Data compiled by the European Topic Centre on Air Pollution, Transport, Noise and Industry (June 2022) based on national submissions to LRTAP Convention.</p>												
Distribution format	<ul style="list-style-type: none"> Microsoft Access (.mdb, .accdb) () ascii (.csv, .txt, .sql) () 												
OnLine resource	<table border="1"> <thead> <tr> <th>Protocol</th> <th>Linkage</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>EEA:FOLDERPATH</td> <td>https://sdi.eea.europa.eu/webdav/datastore/public/eea_t_lrtap-convention_p_1980-2022_v01_r02/</td> <td></td> </tr> <tr> <td>WWW:URL</td> <td>https://sdi.eea.europa.eu/data/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af</td> <td>Direct download</td> </tr> <tr> <td>WWW:DOWNLOAD-1.0-http--download</td> <td>https://sdi.eea.europa.eu/catalogue/srv/api/records/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af/attachments/LRTAP%20Table%20definition.xlsx</td> <td>Table definition</td> </tr> </tbody> </table>	Protocol	Linkage	Name	EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_t_lrtap-convention_p_1980-2022_v01_r02/		WWW:URL	https://sdi.eea.europa.eu/data/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af	Direct download	WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af/attachments/LRTAP%20Table%20definition.xlsx	Table definition
Protocol	Linkage	Name											
EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_t_lrtap-convention_p_1980-2022_v01_r02/												
WWW:URL	https://sdi.eea.europa.eu/data/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af	Direct download											
WWW:DOWNLOAD-1.0-http--download	https://sdi.eea.europa.eu/catalogue/srv/api/records/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af/attachments/LRTAP%20Table%20definition.xlsx	Table definition											

OnLine resource

No information provided.

OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/bdedcffc-c7ec-4eec-a5e6-dacc13aad7af	
Hierarchy level	Dataset		
Statement	Data compiled are annual national total and sectorial emissions of air pollutants and associated activity data reported by EEA member and cooperating countries. Data are available for download in the UNECE/EMEP Nomenclature for Reporting (NFR19) format used by countries. A consolidated dataset for all countries in the NFR19 format and consistent with the European Union's air pollutant emission inventory submission to the LRTAP Convention is also provided.		

Metadata

File identifier	bdedcffc-c7ec-4eec-a5e6-dacc13aad7af XML
Metadata language	English
Character set	UTF8
Hierarchy level	Tabular dataset
Hierarchy level name	Tabular dataset

Date stamp	2024-11-11T09:24:33.91357Z		
Metadata standard name	ISO 19115:2003/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address
	European Environment Agency		sdi@eea.europa.eu
			Website Role
			Point of contact

Overviews

Country Code	Country	Pollutant name	Format name	Sector code	Year	Emissions	Unit	Notation	VersionId	Parent_sector_code	Sector_name
AT	Austria	As	NFR 2014-1 1B2aiv	1990	Mg	NR	2	NATIONAL TOTAL			Fugitive emissions oil: Refining / storage
AT	Austria	As	NFR 2014-1 1B2av	1990	Mg	NR	2	NATIONAL TOTAL			Distribution of oil products
AT	Austria	As	NFR 2014-1 1B2b	1990	Mg	NR	2	NATIONAL TOTAL			Fugitive emissions from natural gas (exploration, production, processing, transmission, storage, distribution and other)
AT	Austria	As	NFR 2014-1 1B2c	1990	Mg	NR	2	NATIONAL TOTAL			Venting and flaring (oil, gas, combined oil and gas)
AT	Austria	As	NFR 2014-1 1B2d	1990	Mg	NR	2	NATIONAL TOTAL			Other fugitive emissions from energy production
AT	Austria	As	NFR 2014-1 2A1	1990	Mg	NR	2	NATIONAL TOTAL			Cement production
AT	Austria	As	NFR 2014-1 2A2	1990	Mg	NR	2	NATIONAL TOTAL			Lime production
AT	Austria	As	NFR 2014-1 2A3	1990	Mg	NR	2	NATIONAL TOTAL			Glass production
AT	Austria	As	NFR 2014-1 2A5a	1990	Mg	NR	2	NATIONAL TOTAL			Quarrying and mining of minerals other than coal
AT	Austria	As	NFR 2014-1 2A5b	1990	Mg	NR	2	NATIONAL TOTAL			Construction and demolition
AT	Austria	As	NFR 2014-1 2A5c	1990	Mg	NR	2	NATIONAL TOTAL			Storage, handling and transport of mineral products
AT	Austria	As	NFR 2014-1 2A6	1990	Mg	NR	2	NATIONAL TOTAL			Other mineral products
AT	Austria	As	NFR 2014-1 2B1	1990	Mg	NR	2	NATIONAL TOTAL			Ammonia production
AT	Austria	As	NFR 2014-1 2B2	1990	Mg	NR	2	NATIONAL TOTAL			Nitric acid production
AT	Austria	As	NFR 2014-1 2B3	1990	Mg	NR	2	NATIONAL TOTAL			Adipic acid production
AT	Austria	As	NFR 2014-1 2B5	1990	Mg	NR	2	NATIONAL TOTAL			Carbide production
AT	Austria	As	NFR 2014-1 2B6	1990	Mg	NR	2	NATIONAL TOTAL			Titanium dioxide production
AT	Austria	As	NFR 2014-1 2B7	1990	Mg	NR	2	NATIONAL TOTAL			Soda ash production
AT	Austria	As	NFR 2014-1 2B10a	1990	Mg	NR	2	NATIONAL TOTAL			Chemical industry: Other
AT	Austria	As	NFR 2014-1 2B10b	1990	Mg	NR	2	NATIONAL TOTAL			Storage, handling and transport of chemical products
AT	Austria	As	NFR 2014-1 2C1	1990	Mg	NR	2	NATIONAL TOTAL			Iron and steel production
AT	Austria	As	NFR 2014-1 2C2	1990	Mg	NR	2	NATIONAL TOTAL			Ferroalloys production
AT	Austria	As	NFR 2014-1 2C3	1990	Mg	NR	2	NATIONAL TOTAL			Aluminium production
AT	Austria	As	NFR 2014-1 2C4	1990	Mg	NR	2	NATIONAL TOTAL			Magnesium production
AT	Austria	As	NFR 2014-1 2C5	1990	Mg	NR	2	NATIONAL TOTAL			Lead production
AT	Austria	As	NFR 2014-1 2C6	1990	Mg	NR	2	NATIONAL TOTAL			Zinc production
AT	Austria	As	NFR 2014-1 2C7a	1990	Mg	NR	2	NATIONAL TOTAL			Copper production
AT	Austria	As	NFR 2014-1 2C7b	1990	Mg	NR	2	NATIONAL TOTAL			Nickel production
AT	Austria	As	NFR 2014-1 2C7c	1990	Mg	NR	2	NATIONAL TOTAL			Other metal production
AT	Austria	As	NFR 2014-1 2C7d	1990	Mg	NR	2	NATIONAL TOTAL			Storage, handling and transport of metal products
AT	Austria	As	NFR 2014-1 2D3a	1990	Mg	NR	2	NATIONAL TOTAL			Domestic solvent use including fungicides
AT	Austria	As	NFR 2014-1 2D3b	1990	Mg	NR	2	NATIONAL TOTAL			Road paving with asphalt
AT	Austria	As	NFR 2014-1 2D3c	1990	Mg	NR	2	NATIONAL TOTAL			Asphalt roofing
AT	Austria	As	NFR 2014-1 2D3d	1990	Mg	NR	2	NATIONAL TOTAL			Coating applications
AT	Austria	As	NFR 2014-1 2D3e	1990	Mg	NR	2	NATIONAL TOTAL			Degreasing
AT	Austria	As	NFR 2014-1 2D3f	1990	Mg	NR	2	NATIONAL TOTAL			Dry cleaning
AT	Austria	As	NFR 2014-1 2D3g	1990	Mg	NR	2	NATIONAL TOTAL			Chemical products
AT	Austria	As	NFR 2014-1 2D3h	1990	Mg	NR	2	NATIONAL TOTAL			Printing
AT	Austria	As	NFR 2014-1 2D3i	1990	Mg	NR	2	NATIONAL TOTAL			Other solvent use
AT	Austria	As	NFR 2014-1 2G	1990	Mg	NR	2	NATIONAL TOTAL			Other product use
AT	Austria	As	NFR 2014-1 2H1	1990	Mg	NR	2	NATIONAL TOTAL			Pulp and paper industry
AT	Austria	As	NFR 2014-1 2H2	1990	Mg	NR	2	NATIONAL TOTAL			Food and beverages industry
AT	Austria	As	NFR 2014-1 2H3	1990	Mg	NR	2	NATIONAL TOTAL			Other industrial processes
AT	Austria	As	NFR 2014-1 2I	1990	Mg	NR	2	NATIONAL TOTAL			Wood processing
AT	Austria	As	NFR 2014-1 2J	1990	Mg	NR	2	NATIONAL TOTAL			Production of POPs
AT	Austria	As	NFR 2014-1 2K	1990	Mg	NR	2	NATIONAL TOTAL			Consumption of POPs and heavy metals (e.g. electrical and scientific equipment)
AT	Austria	As	NFR 2014-1 2L	1990	Mg	NR	2	NATIONAL TOTAL			Other production, consumption, storage, transportation or handling of bulk products
FI	Finland	As	NFR 2014-1 6A	1990	Mg	NO	2	NATIONAL TOTAL			Other (included in national total for entire territory)
FI	Finland	As	NFR 2014-1 NATIONAL TOTAL	1990	34.8158669977757	Mg	2				National total for the entire territory (based on fuel sold)
FI	Finland	As	NFR 2014-1 ADJUSTMENTS (Net total)	1990		Mg	2				Sum of adjustments (negative value) from Annex VII
FI	Finland	As	NFR 2014-1 NATIONAL TOTAL FOR COMPLIANCE	1990		Mg	2				National total for compliance assessment (please specify all details in the IIR)
FI	Finland	As	NFR 2014-1 1A3ai(ii)	1990		Mg	NA	2			International aviation cruise (civil)
FI	Finland	As	NFR 2014-1 1A3aai(ii)	1990		Mg	NA	2			Domestic aviation cruise (civil)
FI	Finland	As	NFR 2014-1 1A3di(i)	1990	0.31405295314608	Mg	2				International maritime navigation
FI	Finland	As	NFR 2014-1 1A5c	1990		Mg	NA	2			Multilateral operations
FI	Finland	As	NFR 2014-1 1A3	1990		Mt	2				Transport (fuel used)

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