

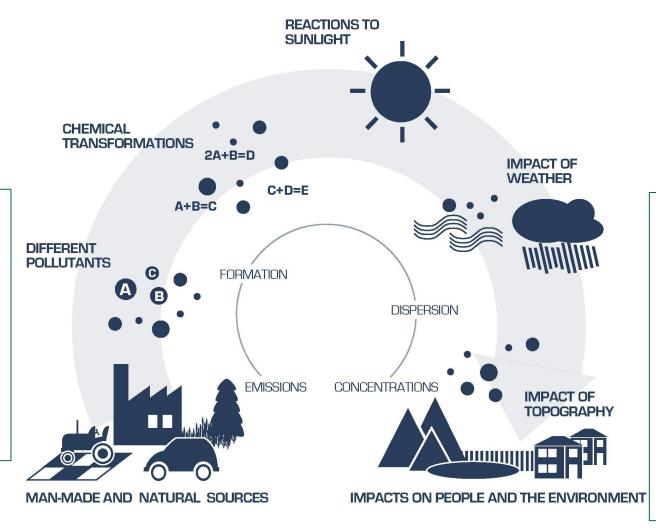


# Air pollution: from emissions to concentrations and impacts

# National Emissions reduction commitments (NEC) Directive

# **Sectoral legislation**

- Transport
- Industry
- Products



## **Air Quality Directives**

- Legal standards
- Assessment of air quality
- Management of air quality
- Information to the public

## **World Health Organization**

Air quality guidelines

# **EEA data on emissions: NEC Directive**

ATA

#### National Emission reductions Commitments (NEC) Directive emission inventory data

Data on emissions of air pollutants (ammonia (NH3), non-methane volatile organic compounds (NMVOC), nitrogen oxides (NOX), particulate matter 2.5 (PM2.5) and sulphur dioxide (SO2)) reported annually by Member States to the European Commission (with copies to EEA) under Directive 2016/2284 of the European Parliament and of the Council on the reduction of national emissions of certain atmospheric pollutants.

Prod-ID: DAT-20-enCreated 25 Aug 2022 — Published 30 Aug 2022 — Last modified 30 Aug 2022 — 2 min read

\* > Data and maps > Datasets > National Emission reductions...

## European data Additional information Metadata

National Emission Ceilings (NEC) Directive Inventory - NFR14 sector classification [+] Show table definition (records: 4606422)

- Text delimited (zip) (ZIP archive)
   59.58 MB Download file
- Microsoft Access format (zip)

  Download file

National Emission reduction
Commitments Directive reporting status
2022

This briefing describes the progress made by the EU and its 27 Member States towards reducing emissions of the five main air pollutants regulated under the National Emission reduction Commitments Directive. It presents the first assessment of Member State performance against the emission reduction commitments for the period 2020-2029 and their progress towards achieving the more ambitious targets that will apply from 2030. This briefing is based on 2020 data, the latest year for which data have been reported to the EEA.

# National air pollutant emissions data viewer 2005-2020 This data viewer provides access to the latest air pollutant emission inventory reported to EA by EU Member by Eute under the National Emission reduction Commitments (Provided access to the latest air pollutant emission inventory reported to EA by EU Member by EU Member by Eute under the National Emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction Commitments (Provided access to the latest air pollutant emission reduction C

DASHBOARD (TABLEAU)

#### National Emission reduction Commitments Directive – Policies and Measures (PaMs) to reduce air pollutants emissions

Access the information on the air pollution Policies and Measures reported by Member States.

Prod-ID: DAS-112-enPublished 28 Jun 2019 -

\* > Data and maps > Dashboards > National Emission reduction .

#### Policies to reduce emissions of air pollutants in the European Union

This dashboard explores additional Member State air pollution policies and measures (PaMs) to deliver on emission reduction commitments for 2020 and 2030, as set out in Directive (EU) 2016/2284 on the reduction of national emissions of certain atmospheric pollutants (the "NECD"). Trees PaMs fall under the National Air Pollution Control Programmes that were reported for the first time in 2019 under Commission Implementing Decision (FU) 2018/15/2019.

Select a pollutant

 $NH_3$ 

NMVOC

NO

DM.

SO<sub>2</sub>

What are the most frequent objectives of additional policies for PM2:5?

Alternative fuels for vehicles, vessels and aircraft (including electric)

A C

 ${\it Energy efficiency improvements of buildings}$ 

Transport demand management/reduction

#### Which countries have additional PaMs related to PM<sub>2\*5</sub>?

Click on a country in the map to filter the by sector graph below. To return to EU totals, refresh the page or select all the countries in the map.



427

Additional PaMs relating to PM<sub>2-5</sub>

6

Belgium reports the most additional PaMs

# **EEA** data on emissions: Gothenburg Protocol

DATA

#### National emissions reported to the Convention on Long-range Transboundary Air Pollution (LRTAP Convention)

Data on emissions of air pollutants submitted to the LRTAP Convention and copied to EEA

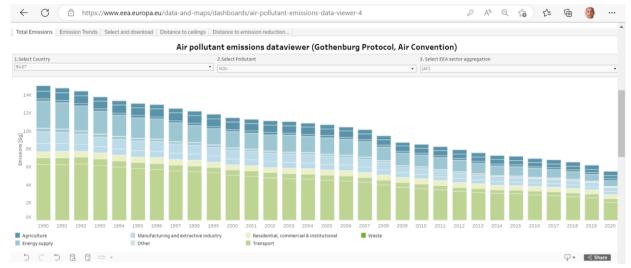
 $\textbf{Prod-ID:} \ \text{DAT-16-enCreated} \ 24 \ \text{Aug} \ 2022 \ = \text{Published} \ 29 \ \text{Aug} \ 2022 \ = \text{Last modified} \ 07 \ \text{Dec} \ 2022 \ = 3 \ \text{min read} \ 100 \ \text{MeV} \ = 1000 \ \text{MeV} \ =$ 

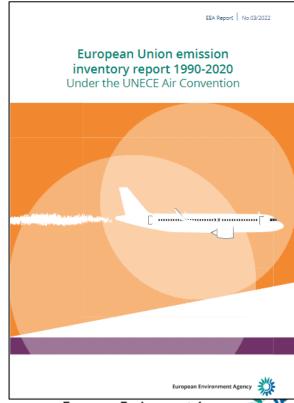
👫 > Data and maps > Datasets > National emissions reported ...

# Consolidated table for all countries in the NFR14 format [+] Show table definition (records: 3620116) . QLRTAP\_GF\_CSV (ZIP archive) 29.76 MB Download file . QLRTAP\_GF\_mdb.zip (ZIP archive) 71.57 MB Download file

#### Additional information

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 (NFR14) format used by countries. A consolidated dataset for all countries in the NFR14 format and consistent with the European Union's air pollutant emission inventory submission to the LRTAP Convention is also provided.

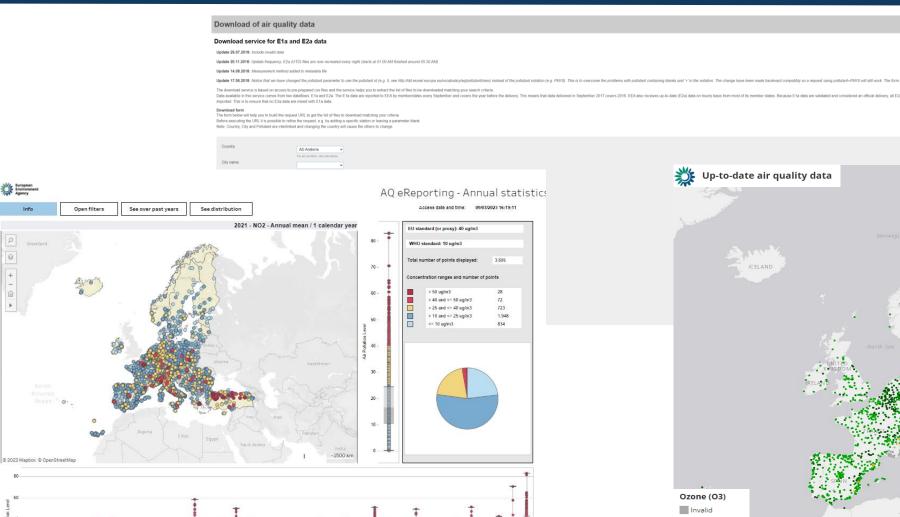


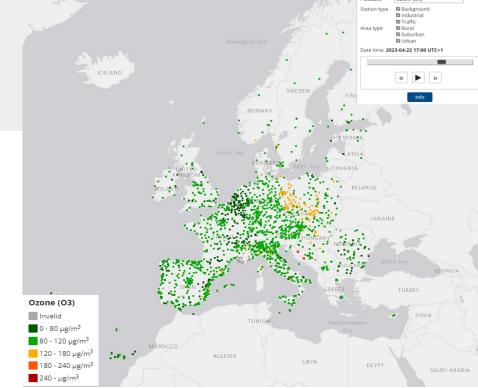






# **EEA** data on air quality





Resolution @Hour

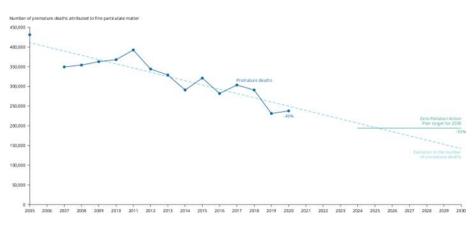
European Environment Agency

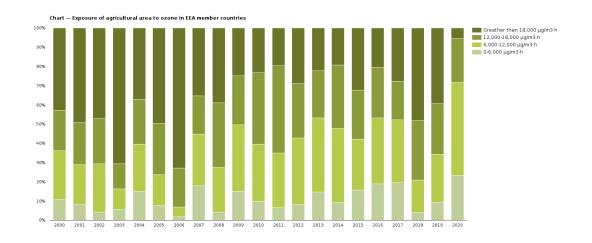
ODay => 75%

# **EEA** data on air quality: indicators



# Prevature deaths extribusable to Province in 1920, adjusted for population in 1920, adjusted for po





Notes:

- EU long-term objective for the protection of vegetation:  $6,000 \, \mu g/m^3 \cdot h$ - EU target value for the protection of vegetation:  $18,000 \, \mu g/m^3 \cdot h$  (averaged over five years)

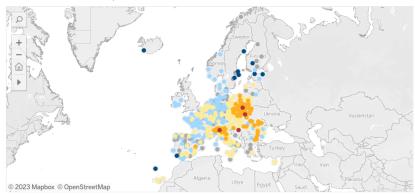
Source: AIR007



# **EEA** data on air quality: other products

### How clean is the air in my city?

based on the levels of fine particulate matter measured in the air in cities in 2021 and 2022

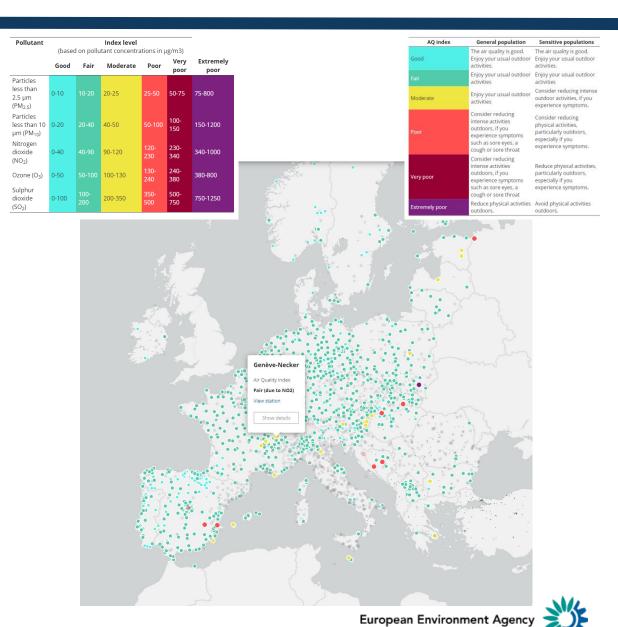


PM2.5 ann μg/m3	ual mean concentra	tion,
0 - 5	good	
5 - 10	fair	
10 - 15	moderate	
15 - 25	poor	
> 25	very poor	
no data	-	
Country		
(AII)	•	

#### Air in European cities - from the cleanest to the most polluted

City name	Country	Rank =	Fine particulate matter in ug/m3	Population in the city
aro	Portugal	1	3.7	61015
lmeå	Sweden	2	3.9	125080
ppsala	Sweden	3	4.0	219914
unchal	Portugal	4	4.2	104024
allinn	Estonia	5	4.3	438341
ampere / Tammerfors	Finland	6	4.3	238140
teykjavik	Iceland	7	4.3	132252
orrköping	Sweden	8	4.7	140927
tockholm (greater city)	Sweden	9	4.8	1745766
arva	Estonia	10	4.9	53424
ergen	Norway	11	5.2	267950
elsinki / Helsingfors (greater city)	Finland	12	5.3	1154967
artu	Estonia	13	5.7	95430
Saint Denis	France	14	5.8	147931

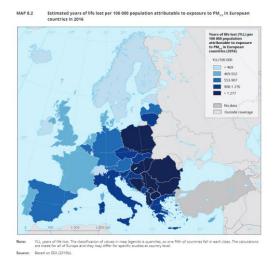
City name	Country	Rank F	Fine particulate matter in ug/m3	Population in the city
Slavonski Brod	Croatia	375	28.0	52836
Nowy Sacz	Poland	374	27.9	83896
iotrków Trybunalski	Poland	373	25.2	73670
remona	Italy	372	25.1	72399
omza	Poland	371	24.6	63000
ory	Poland	370	24.3	62456
raków	Poland	369	24.1	771069
iliwice	Poland	368	21.9	179806
adova	Italy	367	21.5	210077
gierz	Poland	366	21.4	56529
arnów	Poland	365	21.3	109062
atowice	Poland	364	21.1	294510
zestochowa	Poland	363	21.1	222292
/icenza	Italy	362	21.0	109855



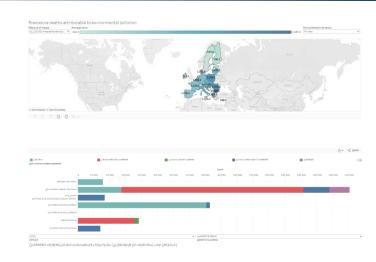
# **EEA** data on air quality: other products and reports



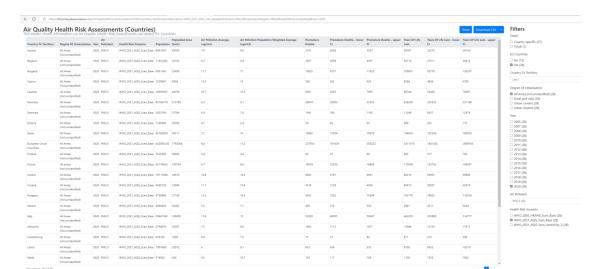
Source: Air quality in Europe 2022



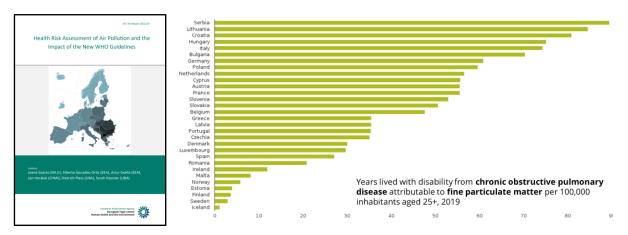
Source: SOER2020



Source: zero pollution monitoring assessment



Source: Air Quality Health Risk Assessments (Countries)



Source: Health impacts of air pollution in Europe, 2022



