

# STATUS OF AIR EMISSION REPORTING UNDER THE AIR CONVENTION IN AZERBAIJAN 2022 TO 2024



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**EU4Environment**  
Water and Data in Eastern Partner Countries

# **STATUS OF AIR EMISSION REPORTING UNDER THE AIR CONVENTION IN AZERBAIJAN**

**REGIONAL REPORT ON OUTPUT 2.3, ACTIVITY 2.3.3 FURTHER  
IMPROVING NATIONAL AIR QUALITY POLLUTANT EMISSION  
INVENTORIES**



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the European Union**

**EU<sup>4</sup>Environment**  
Water and Data in Eastern Partner Countries

EU4Environment in Eastern Partner Countries:  
Water Resources and Environmental Data (ENI/2021/425-550)

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## **ABOUT EU4ENVIRONMENT – WATER RESOURCES AND ENVIRONMENTAL DATA**

This Programme aims at improving people's wellbeing in EU's Eastern Partner Countries and enabling their green transformation in line with the European Green Deal and the Sustainable Development Goals (SDGs). The programme's activities are clustered around two specific objectives: 1) support a more sustainable use of water resources and 2) improve the use of sound environmental data and their availability for policy-makers and citizens. It ensures continuity of the Shared Environmental Information System Phase II and the EU Water Initiative Plus for Eastern Partnership programmes.

The Programme is implemented by five Partner organisations: Environment Agency Austria (UBA), Austrian Development Agency (ADA), International Office for Water (OiEau) (France), Organisation for Economic Co-operation and Development (OECD), United Nations Economic Commission for Europe (UNECE). The action is co-funded by the European Union, the Austrian Development Cooperation and the French Artois-Picardie Water Agency based on a budget of EUR 12,75 million (EUR 12 million EU contribution). The implementation period is 2021-2024.

<https://eu4waterdata.eu>

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## List of abbreviations

ADA.....	Austrian Development Agency
BQE .....	Biological Quality Elements
DoA.....	Description of Action
DG NEAR.....	Directorate-General for Neighbourhood and Enlargement Negotiations of the European Commission
EaP .....	Eastern Partners
EC.....	European Commission
EECCA .....	Eastern Europe, the Caucasus and Central Asia
EMBLAS.....	Environmental Monitoring in the Black Sea
EPIRB.....	Environmental Protection of International River Basins
ESCS .....	Ecological Status Classification Systems
EU .....	European Union
EUWI+.....	European Union Water Initiative Plus
GEF.....	Global Environmental Fund
ICPDR .....	International Commission for the Protection of the Danube River
INBO.....	International Network of Basin Organisations
IOW/OIEau .....	International Office for Water, France
IWRM .....	Integrated Water Resources Management
NESB .....	National Executive Steering Board
NFP .....	National Focal Point
NGOs.....	Non-Governmental Organisations
NPD .....	National Policy Dialogue
OECD.....	Organisation for Economic Cooperation and Development
RBD .....	River Basin District
RBMP .....	River Basin Management Plan
Reps .....	Representatives (the local project staff in each country)
ROM.....	Result Oriented Monitoring
ToR.....	Terms of References
UBA.....	Umweltbundesamt GmbH, Environment Agency Austria
UNDP .....	United Nations Development Programme
UNECE.....	United Nations Economic Commission for Europe
WFD .....	Water Framework Directive

**Country Specific Abbreviations Azerbaijan**

Azersu JSC.....JSC Water Supply and Sanitation of Azerbaijan

MENR..... Ministry of Ecology and Natural Resources

WRSA ..... Water Resources State Agency of Ministry of Emergency Situations

## Executive Summary

The objective of this report is to document the 2022, 2023 and 2024 status of air emission inventories submitted under the Air Convention (Convention on Long Range Transboundary Air Pollution) by Azerbaijan and to document the steps taken by the EU4Env project to accompany Azerbaijan in air emission inventory reporting in 2023 and 2024. Azerbaijan did not submit an air emission inventory under the Air Convention in 2022 and 2023. Azerbaijan has submitted an air emission inventory under the Air Convention in 2024 after the deadline which is a considerable improvement compared to previous years.

To further improve the air emission inventory the following points could be addressed:

- Report air emission data every year
- Report an Informative Inventory Report every year
- Report projected emissions regularly, according to the reporting requirements (every 4<sup>th</sup> year)
- Report gridded and LPS data regularly, according to the reporting requirements (every 4<sup>th</sup> year)

## 1. Purpose

The purpose of this report is

1. to document the 2022 status of air emission inventories submitted under the Air Convention (CLRTAP, Convention on Long Range Transboundary Air Pollution) by Azerbaijan.
2. to document the steps taken to accompany Azerbaijan in air emission inventory reporting in 2023 and 2024.



## 2. Air emissions inventories submitted by Azerbaijan

### 2.1. Background on Reporting Requirements under the Air Convention

Article 8 of 1979 LRTAP Convention (Air Convention)<sup>1</sup> states that: *"The Contracting Parties, within the framework of the Executive Body referred to in article 10 and bilaterally, shall, in their common interests, exchange available information on: data on emissions at periods of time to be agreed upon, of agreed air pollutants, starting with sulphur dioxide, coming from grid-units of agreed size; or on the fluxes of agreed air pollutants, starting with sulphur dioxide, across national borders, at distances and at periods of time to be agreed upon..."*

EB Decision 2022/2 (UNECE, 2022 (a))<sup>2</sup> further specifies the pollutants (Annex I (b)):

*"The air pollutants referred to in article 8 (a) of the Convention shall be emissions of: sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), ammonia (NH<sub>3</sub>), non-methane volatile organic compounds (NMVOCs), carbon monoxide (CO), particulate matter (referring in particular to PM<sub>2.5</sub> and PM<sub>10</sub> and, if a Party considers it appropriate, total suspended particulate matter (TSP) and black carbon (BC)), heavy metals (in particular, cadmium (Cd), lead (Pb), mercury (Hg) and, if a Party considers it appropriate, arsenic (As), chromium (Cr), copper (Cu), nickel (Ni), selenium (Se) and zinc (Zn)) and persistent organic pollutants (in particular, hexachlorobenzene (HCB), polychlorinated biphenyls (PCBs), dioxins and furans (PCDD/F) and polycyclic aromatic hydrocarbons (PAHs)), using as guidance the definitions given in the Guidelines;"*

All pollutants mentioned in EB Decision 2022/2 have to be reported, unless the information is not available or the EB Decision lists them as *"if a Party considers it appropriate"*.

Also in the UNECE reporting Guidelines Parties to the Air Convention are formally required to report on the substances and for the years set forth in the Air Convention and the protocols and their amendments that they have ratified and that have entered into force for them (UNECE Reporting Guidelines, UNECE, 2022 (b))<sup>3</sup>.

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<sup>1</sup> UNECE 1979: The 1979 Geneva Convention on Long-range Transboundary Air Pollution. United Nations Economic Commission for Europe; available at <http://www.unece.org/fileadmin//DAM/env/lrtap/full%20text/1979.CLRTAP.e.pdf>

<sup>2</sup> UNECE 2022 (a); ECE/EB.AIR/150, Decision 2022/2 Reporting of emissions and projections data under the Convention and its protocols in force; available at [https://unece.org/sites/default/files/2023-03/Decision%202022\\_2%20%28E%29.pdf](https://unece.org/sites/default/files/2023-03/Decision%202022_2%20%28E%29.pdf)

<sup>3</sup> UNECE 2022: Guidelines for Reporting Emissions and Projections Data under the Convention on Longrange Transboundary Air Pollution. United Nations Economic Commission for Europe 23 / 27

The core guidance documents for reporting air emission inventories under the Air Convention are the UNECE Reporting Guidelines (UNECE, 2022(b))<sup>4</sup> and the EMEP/EEA Inventory Guidebook<sup>5</sup>. Summary information on reporting can be found at <https://www.ceip.at/reporting-instructions>.

Azerbaijan has not ratified any protocols of the Air Convention but acceded the 1979 LRTAP Convention in 2002.

**Table 1 Ratification status of the LRTAP Convention and related protocols for the beneficiary countries of the EU4Environment and data project**

Ratification status of the LRTAP Convention and related protocols													
	1979 LRTAP Convention	1984 EMEP Protocol	1985 Sulphur Protocol	1988 NO <sub>x</sub> Protocol	1991 VOC Protocol	1994 Sulphur Protocol	1998 Heavy Metals Protocol		1998 POP Protocol			1999 Gothenburg Protocol	
	Geneva Convention	Geneva Protocol	Helsinki Protocol	Sofia Protocol	Geneva Protocol	Oslo Protocol	Aarhus Protocol	2012 Amendment	Aarhus Protocol	2009 Amendment I	2009 Amendment II	2012 Amendment	
<b>Armenia</b>	1997 (AC)	2014 (AC)	N	N	N	N	N	N	N	N	N	N	N
<b>Azerbaijan</b>	2002 (AC)	N	N	N	N	N	N	N	N	N	N	N	N
<b>Georgia</b>	1999 (AC)	2013 (AC)	N	N	N	N	N	N	N	N	N	N	N
<b>Moldova</b>	1995 (AC)	2016 (AC)	N	N	N	N	2002	N	2002	N	N	N	N
<b>Ukraine</b>	1980	1985 (AT)	1986 (AT)	1989 (AT)	N	N	N	N	N	N	N	N	N

Note: (AC) = Accession; (AT) = Acceptance

## 2.2. Status of reporting air emission inventory data in 2022

In 2022 the last available air emission inventory for Azerbaijan was reported in the year 2019.

(ECE/EB.AIR/GE.1/2022/20– ECE/EB.AIR/WG.1/2022/13). [https://unece.org/sites/default/files/2022-08/ECE\\_EB.AIR\\_GE.1\\_2022\\_20-2210473E.pdf](https://unece.org/sites/default/files/2022-08/ECE_EB.AIR_GE.1_2022_20-2210473E.pdf)

<sup>4</sup> available at:

[https://www.ceip.at/fileadmin/inhalte/ceip/00\\_pdf\\_other/2022/emissions\\_reporting\\_guidelines\\_2023\\_final.pdf](https://www.ceip.at/fileadmin/inhalte/ceip/00_pdf_other/2022/emissions_reporting_guidelines_2023_final.pdf)

<sup>5</sup> <https://www.eea.europa.eu/publications/emep-eea-guidebook-2023>

### 2.3. Status of reporting air emission inventory data in 2023

Azerbaijan did not submit an air emission inventory under the Air Convention in 2023.

### 2.4. Status of reporting air emission inventory data in 2024

Azerbaijan has submitted an air emission inventory under the Air Convention in 2024 after the deadline.

Azerbaijan has submitted an Informative Inventory Report in 2024, three days after the reporting deadline, which is an improvement compared to 2023. Transparency of the report still needs to be improved. In addition Azerbaijan provided answers to the expert review team as part of the CLRTAP in-depth air emission inventory review and indicated planned improvements in several areas for the inventory submission in 2025.

Azerbaijan did not report projected emission data, gridded emission data or LPS in 2024 or before

### 2.5. The following activities were carried out during the project period:

1. The status of reporting was assessed in 2022
2. At several occasions the possibility to provide for institutional capacity building for air emission inventory reporting was discussed with representatives from Azerbaijan.
3. Support of air emission inventories in 2023 was not possible. No air emission inventory was prepared
4. Experts from Azerbaijan were invited to the in-depth review of air emission inventories submitted under the Air Convention (CLRTAP stage 3 review) in 2023 and 2024. No expert was nominated by Azerbaijan to participate in the review.

### 2.6. The following results were achieved:

1. The status of reporting in 2022 was documented (present report)
2. The status of reporting in 2024 was documented (present report)
3. Areas for inventory improvement were identified. See section 2.7.
4. A submission including an Informative Inventory Report was received from Azerbaijan after 4 years of missing reporting
5. Azerbaijan responded to the questions from the expert review team (CLRTAP in-depth review of air emission inventories) and indicated plans for improvement

### 2.7. General suggestions for improvement of the air emission inventory

1. Report air emission data every year
2. Report an Informative Inventory Report every year

3. Report projected emissions regularly, according to the reporting requirements (every 4<sup>th</sup> year)
4. Report gridded and LPS data regularly, according to the reporting requirements (every 4<sup>th</sup> year)
5. Follow the plans for improvement indicated in the answers to the expert review team (CLRTAP in-depth review of air emission inventories)

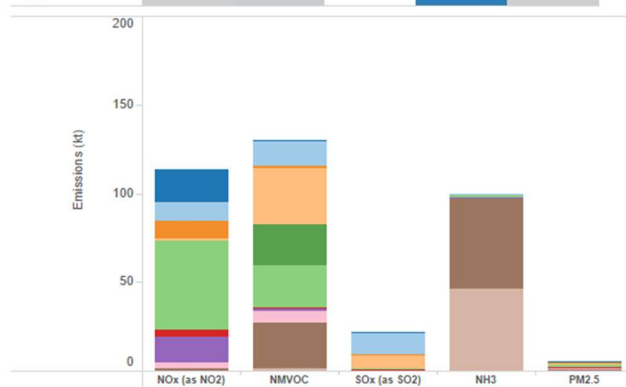
### 3. Annexes

Overview of reporting of Azerbaijan in 2022-2024.

Inventory submission (initial)		Years reported		IIR pages	
Date 2022	No Submission	2022	-	2022	-
Date 2023	No Submission	2023	-	2023	-
Date 2024	14.02.2024	2024	1990-2022 + AD (1995-2022)	2024	109

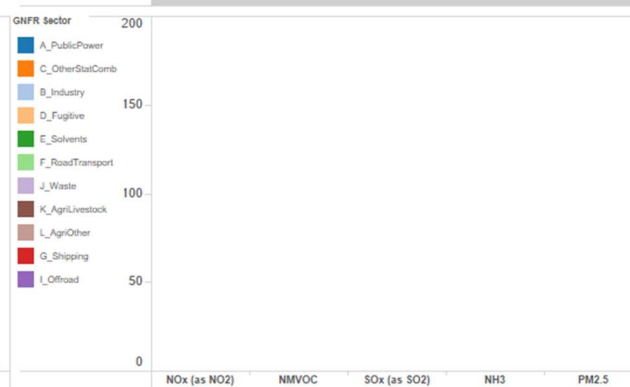
2024 Submission / Azerbaijan / 2022 data

GNFR Sector	NOx (as NO <sub>2</sub> )	NM VOC	SOx (as SO <sub>2</sub> )	NH <sub>3</sub>	PM <sub>2.5</sub>
A_PublicPower	18.40	0.54	0.28		0.09
B_Industry	10.73	14.35	12.49	0.03	0.90
C_OtherStatComb	9.58	1.18	0.08	0.00	0.36
D_Fugitive	1.14	31.44	8.00	0.00	0.07
E_Solvents		23.41			0.45
F_RoadTransport	50.57	23.80	0.72	1.88	1.19
G_Shipping	4.03	0.10	0.02		0.06
I_Offroad	14.80	2.11	0.15	0.00	0.82
J_Waste	2.85	8.23	0.23	0.01	0.01
K_AgriLivestock	1.43	25.87		51.29	1.27
L_AgriOther	0.02	1.40		45.44	0.10



2023 Submission / Azerbaijan / 2021 data

GNFR Sector	NOx (as NO <sub>2</sub> )	NM VOC	SOx (as SO <sub>2</sub> )	NH <sub>3</sub>	PM <sub>2.5</sub>
Sectors not specified					



The Air emission inventories 2019 and 2024 of Azerbaijan are available at:

<https://www.ceip.at/status-of-reporting-and-review-results>

The stage 1 and stage 2 reports compiled by CEIP provide feedback on the air emission inventories to the countries.

Stage 1: An initial check of submissions for timeliness and completeness;

Stage 2: A synthesis and assessment of all national submissions with respect to consistency and comparability of data with recommendations for data quality improvement;

The reports are available at:

<https://www.ceip.at/status-of-reporting-and-review-results>

The stage 3 report 2024 provides specific recommendations for the improvement of reporting air emissions from the sector Industrial Processes and Product Use - Solvents

The report is available at:

<https://www.ceip.at/status-of-reporting-and-review-results>



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