

SEIS reporting

Air Indicators

Assessment framework of the Shared Environmental Information System

- Eighth Environment for Europe Ministerial Conference (Batumi, Georgia, 8–10 June 2016) - Invitation by Ministers to have the Shared Environmental Information System in place in the countries of Europe and Central Asia by 2021 (ECE/BATUMI.CONF/2016/2/Add.1, para. 10)
- Twenty-first session of the Working Group on Environmental Monitoring and Assessment (6 and 7 May 2019) decided on the finalization of a revised assessment framework of the Shared Environmental Information System.

24th session (11-12 April 2022) of Working Group on Environmental Monitoring and Assessment

- Discussed and agreed on how SEIS should be used in the future
- Suggested checking regularly the implementation of SEIS for specific environmental themes
- Agreed to review annually a limited number of environmental themes and indicators based on the SEIS assessment framework, and that the revised UNECE indicator guidelines should be implemented and used
- Agreed to review in 2023 the theme “air pollution and air quality” followed by the theme “waste” in 2024 and “energy, including renewable energy” in 2025

25th session (2-3 May 2023) of Working Group on Environmental Monitoring and Assessment

- The indicators included in the 2023 excel file reporting tool are from the following topics of the Revised Guidelines for the Application of Environmental Indicators:
 - “Air quality”
 - “Emissions of greenhouse gases (GHGs)”
 - “Consumption of ozone depleting substances (ODSs)”
 - “Emissions of other substances to air”

Ministerial Declaration adopted at 9th Environment for Europe Ministerial Conference (Nicosia, 5-7 October 2023)

- Commended the general establishment of SEIS across the region to support a regular process of environmental assessment
- Invited countries to continue their efforts to implement all SEIS pillars – content, infrastructure and cooperation – and to address any remaining gaps

Report on the SEIS review of the environmental theme “air” using the revised UNECE indicators

- Will contribute to assessing progress in implementing the outcomes of the Ninth Environment for Europe Ministerial Conference related to SEIS
- Will support countries to understand SEIS as part of their regular internal environmental monitoring process, assess their capacities related to the availability and quality of air-related data and indicators, and help identify resource needs for regular environmental monitoring and assessment based on the key findings of the report

Report on the SEIS review of the environmental theme “air” using the revised UNECE indicators

- The outline of the report will be based on the final review report on the establishment of SEIS (ECE/NICOSIA.CONF/2022/8) launched at the Conference, and the SEIS assessment framework (ECE/CEP-CES/GE.1/2019/3)
- It will be composed by (i) an introduction to the SEIS and the revised UNECE set of environmental indicators, (ii) an overview of key findings and progress made in terms of content, infrastructure and institutional cooperation, and (iii) the further steps to be taken by assessment framework category.

The Assessment Framework

- The purpose of the assessment framework is to be used for the review of progress in establishing the Shared Environmental Information System in Europe and Central Asia, including the questions to be posed, the indicators and data flows to be reviewed and the application of the chosen scoring system
- It will be based on responses by countries to questions on selected indicators in the following seven categories: relevance; accuracy; timeliness and punctuality; accessibility; clarity; comparability; and institutional and organizational arrangements.
- It includes a scoring mechanism.

Category	Description
Relevance	The degree to which the information meets the real or perceived needs of users (for example, in terms of coverage, content and detail).
Accuracy	The degree to which the information correctly describes the phenomenon it was intended to measure.
Timeliness and punctuality	Timeliness describes the length of time between data availability and the event or phenomenon they describe. Punctuality describes the time lag between the actual delivery of the data and the target date when it should have been delivered.
Accessibility	The ease with which users are able, at any time, to access the data and its supporting information online.
Clarity	The degree to which information is presented in a clear and understandable form and released in a suitable and convenient manner, with supporting metadata and guidance.
Comparability	The extent to which differences between statistics can be attributed to differences between the true values of the statistical characteristic, or to methodological differences. Comparability includes: (a) comparability over time — the extent to which data from different points in time can be compared; (b) comparability through space — the extent to which data from different countries and/or regions can be compared (the application of international standards is particularly important here); and (c) comparability between domains — the extent to which data from different statistical domains can be compared.
Institutional and organizational arrangements	The degree to which institutional and organizational arrangements are in place to ensure regular production and sharing of environmental indicators, data and information.

2023 SEIS review – Indicators related to “Air”

- Excel file reporting tool that will include:
 - Macro-level questions to be asked only once for a country
 - Thematic questions to be asked for each theme (for example air quality)
 - Indicator questions to be asked for each indicator
- The required answers may be in different forms: free text, dates, selection from a list, multiple answers.
- Only answers that refer to priority indicators will be considered for scoring.

Macro-level questions

1. Please outline steps that have been taken to further the establishment of a Shared Environmental Information System since the 2021 latest assessment.

1.1. Please provide links to any supporting information for relevant programmes, projects and/or initiatives.

2. How regularly do you produce an indicator-based national state-of-the-environment report?

2.1. Please provide a link to the latest report.

2.2. Please explain why reports are not being produced or are not produced with regular frequency based on the associated environmental indicators.

Macro-level questions

13. Do you produce any integrated environmental reports covering several thematic areas?

3.1. Please specify the thematic areas covered.

3.2. Please specify how regularly you produce this/these report(s)

3.3. Please provide the link(s) to the report(s).

3.4. Please explain why no reports are being produced based on the associated environmental indicators.

12.3. Is there an integrated portal in place for environmental information and data?

Thematic Questions

- 4. How often do you collect user feedback to assess whether the indicators within the thematic area meet the needs of users? (If your answer is “C”, please go directly to question 5)
- 4.1. Please specify further how user feedback is being collected.
- 4.2. What steps have been taken to respond to any user feedback and how have you improved the indicators within the thematic area based on user feedback?
- 12.2 Have you taken any other steps to improve the accessibility of the indicators within the thematic area?
- 14. How are the indicators within the thematic area linked to national policy targets?

Thematic Questions

- 18. Is there national legislation and/or plans, programmes or strategies in place on monitoring and reporting in relation to the thematic area?
- 18.1. Please list the legislation, plans, programmes or strategies.
- 19. Please list all institutions involved in monitoring and reporting in relation to the thematic area, including links to their websites.
- 19.1. Are there any institutional arrangements for regular production and sharing of data between various institutions at the national level?
- 19.2. Please specify what institutional arrangements are in place and how they are relevant to the thematic area in question.

Indicator Questions

5. Is the indicator used for more than one purpose (for example, for the display of national values, display of regional values, various reporting obligations)?

5.1. Please explain how the indicator is being used for multiple purposes.

6. Where do you get the primary data from (please select all options that apply)?

7. Are data validation procedures in place?

7.1. Please explain what data validation procedures are in place and how they are being applied.

Indicator Questions

8. Are there procedures in place to carry out revisions to the data (for example, due to methodological change, new data, errors or new mandate)?

8.1. Please specify what procedures are in place and how they are applied.

9. How often is the indicator published?

10. What is the reference year of the last data point?

10.1. What year was the data collected?

11. When was the last data point published?

11.1. What is the timeliness of the data flow?

Indicator Questions

12. Is the indicator readily available and accessible online for users on a national platform?

12.1. Please provide a link to the indicator.

13. In what formats is the indicator presented?

13.1. Please describe the factsheet by selecting as many options as apply.

15. Are metadata available for the indicator?

15.1. Please describe the metadata by selecting as many options as apply. If you select “Other”, please provide a short description of the kind of metadata.

Indicator Questions

16. Do you publish time series for this indicator?

16.1. What is the length of the time series of the indicator?

16.2. Are there any breaks in the time series of the indicator (for example, owing to a change of methods)?

16.3. Please explain why there are breaks in the time series.

17. Are there any limitations in comparing the indicator across countries in the pan-European region? (will be answered by the Secretariat)

Questions	Scoring	Format for answers	ANSWER	ANSWER	ANS
1. Please outline steps that have been taken to further the establishment of a Shared Environmental Information System since the 2021 latest assessment.	No	Open			
1.1. Please provide links to any supporting information for relevant programmes, projects and/or initiatives.	No	Open			
2. How regularly do you produce an indicator-based national state-of-the-environment report? (If your answer is "D" or "E", please go directly to question 2.2)	Yes	Please select an answer.	Please select an answer.		
2.1. Please provide a link to the latest report.	No	Open			
2.2. Please explain why reports are not being produced or are not produced with regular frequency based on the associated environmental indicators.	No	Open			
3. Do you produce any integrated environmental reports covering several thematic areas? (If your answer is "No",	Yes	Please select an answer.	Please select an answer.		

Excel file reporting tool
 Macro level questions sample

Questions	Level	Theme (old classification)	Subcomponent	Topic	Code	Indicator	Priority	Scoring	Format for Answers	ANSWER
4. How often do you collect user feedback to assess whether the data flows within the thematic area meet the needs of users? (If your answer is "C", please go directly to question 5)	Thematic	B. Climate change	Emissions to air	All				Yes	Please select an answer:	Please select an answer:
4.1. Please specify further how user feedback is being collected.	Thematic	B. Climate change	Emissions to air	All				No	Open	
4.2. What steps have been taken to respond to any user feedback and how have you improved the data flows within the thematic area based on user feedback?	Thematic	B. Climate change	Emissions to air	All				No	Open	
5. Is the data flow used for more than one purpose (for example, for the production of national indicators, production of regional indicators, various reporting obligations)? (If your answer is "No", please go directly to question 6)	Data flow	B. Climate change	Emissions to air	Emissions of greenhouse gases (GHGs)	B-3.1	Total GHG emissions per capita	Yes	Yes	Please select an answer:	Please select an answer:
		B. Climate change	Emissions to air	Emissions of greenhouse gases (GHGs)	B-3.2	Total GHG emissions per square kilometre	Yes	Yes	Please select an answer:	Please select an answer:
		B. Climate change	Emissions to air	Emissions of greenhouse gases (GHGs)	B-3.3	Total GHG emissions per unit of GDP	Yes	Yes	Please select an answer:	Please select an answer:
		B. Climate change	Emissions to air	Emissions of greenhouse gases (GHGs)	B-3.4	Total GHG emissions by sectors (energy, transport, industrial processes, solvent and other product use, agriculture, land use and	Yes	Yes	Please select an answer:	Please select an answer:

Excel file reporting tool

Thematic and indicator questions sample

Thank you for your attention!

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