



UNECE's Air Convention Gothenburg Protocol Review

6 December 2021

Executive Body Meeting
Gothenburg Protocol Review Group

Scope of the Review

- Review should remain broad
- Focus on information –gathering, scientific and technical inputs
- Include the latest information from the Subsidiary Bodies
- Gather additional information from Parties
- Assess information that is collected

Timeline

Meeting	Title of report tabled for consideration	Deadline
WGSR 58 / EB 40	<i>Preparations for the review (final)</i> <i>ECE/EB.AIR/WG.5/2020/3</i> <i>Considerations for ammonia relevant to future review of the Gothenburg Protocol</i> <i>Informal document on prioritizing reductions of PM to also achieve reduction of BC</i>	25 September 2020 for official documents <i>Evaluation per Article 10.3 & 10.4 (WGSR informal documents)</i>
WGSR 59 (18-20 May 2021)	First draft annotated outline on the Review	February 2021
TF/centre/ICP meetings	First draft of the report for the review Informal Document	<u>Initial Input April 2021</u>
EMEP SB/WGE meeting (13-17 Sept 2021)	First Draft of report of the review ECE/EB.AIR/WG.#/##	September 2021
WGSR 60 (11-14 April 2022)	Second Draft of report of the review ECE/EB.AIR/WG.#/##	January 2022
EB 42 (Dec 2022)	Final report of review adopted/Conclude the Review	September 2022

Outline of the Draft Report on the Review

- I. Introduction**
- II. Legal requirements for the review**
- III. Emissions**
- IV. Measured and modelled atmospheric concentrations and deposition levels**
- V. Measures and modelled effects on natural ecosystems, materials and crops and assessment of human health effects**
- VI. Emission reduction commitments for Parties**
- VII. Emission limit values, technical annexes and the related guidance documents of the Protocol (with priority given to black carbon and ammonia measures)**
- VIII. Specific sector approaches (e.g., residential solid-fuel, agriculture, shipping)**
- IX. Non-technical measures, best available technology and energy-efficiency requirements**
- X. Flexibility provisions**
- XI. Convention Parties that are not Parties to the Protocol**
- XII. Canada and the United States**
- XIII. Hemispheric Transport**
- XIV. Integrated multi-pollutant, multi-effect approach**
- XV. Synergies and interactions with other policy areas**
- XVI. Progress towards achieving the objectives of the protocol**
- XVII. Conclusions**

Documents for Gothenburg Protocol Review

- **GP Review Report Draft #1** (official): EB 41
- **Supplementary Information** (informal): EB 41
- **Nontechnical Measures Paper** (informal): EB 41
- **GP Review Report Draft #2** (official): WGSR60
- **WGSR Task Force Reports** (official & informal reports): WGSR60
- **Draft Flexibility Document** (official): WGSR60
- **Synergies Paper** (informal): WGSR60
- **Supplementary Information** (informal): WGSR60
- **Technical report on North America** (informal): 2022
- **Annex 1 - Scientific background for the review** (informal/official): EMEP/WGE8
- **Annex 2 - Technical & Policy background for the review** (official): (WGSR HoD)/EB42
- **Final Review Report + Annex 1 & 2** (official): EB42
- **Flexibility Document final** (official) : EB42
- **WGSR60 Report** (Could include key messages from the Synergies paper)

Draft 1: Report on the Review

- **Emissions:** Trends, need for guidebook improvements, metric for BC and options for condensables
- **Concentrations and deposition levels:** Trends, ozone increase in background baseline, only modest reductions in NH₃, need further assessment with finer resolution approaches, CLs exceedances, need exploration of new models to assess biodiversity, remaining risks to crops and forests
- **Emission reduction commitments:** Good progress with variation among Parties; some delayed implementation, need more progress on NH₃ commitments, some emissions increase for non-parties
- **Adjustment procedure:** 2010 fixed targets transition to 2020 relative targets reduce need for procedure post-2022
- **Condensables:** policy implications of including for PM reporting should be discussed

Draft 1: Report on the Review

- **ELVs, technical annexes & guidance documents:** TFTEI conducting in-depth analysis; Annex IX/associated guidance documents need to be updated
- **Sector approaches:** significant sources & priority areas
- **Non-technical measures:** should be considered, informal document & forthcoming guidance document
- **Flexibility:** preliminary key findings and conclusions, possible recommendations
- **Convention parties that are not Parties to the GP:** awareness, monitoring, national action plans

Draft 1: Report on the Review

- **Canada and the United States:** status of the Air Quality Agreement
- **Hemispheric Transport:** increases in global methane are expected to offset projected NO_x and NMVOC emission reductions
- **Synergies with other policy areas:** interactions with climate change, energy, transport, agriculture and nitrogen management policies. paper coming WGSR60
- **Progress on objectives:** update on work coming on GAINS calculations, requested information from Parties on key articles

Timeline & process for submitting additional input

- Initial input was due April 9, 2021
- GPG submitted Draft 1 as an official document for EB41
- Additional input for Draft 2, incl. comments on Draft 1, due 10 December. GPG will submit an official document for WGSR60 by 17 January. Draft 2 will include information from the input submitted by Parties by 30 September 2021.
- WGSR 60: Draft 2; flexibilities and barriers to ratification and implementation; informal document on synergies with other policy areas (include methane, black carbon and nitrogen and its compounds); and methane in a future instrument (6.3(d))
- Thematic session on flexibilities: in-person session at WGSR60 or other

Timeline & process for submitting additional input

- Potential in-person GPG meeting in Spring/Summer 2022
- Updated scientific and technical input for Annex I due Spring 2022
- Updated technical and policy input for Annex II due Summer 2022
- Final draft of review to be discussed at EMEP SB/WGE in September 2022
- Final draft of review and its annexes will be submitted by official deadline in Sept 2022

Flexibility Questionnaire

- Implementation and ratification of the GP is a priority per the LTS.
- Article 50 of the LTS specifically calls for the review to include a reflection on the flexibility provisions included in the amended version of the Gothenburg Protocol and their effectiveness
- An in-person thematic session on flexibilities in the current GP protocol, barriers to implementation and ratification and ways forward is highly recommended for a robust review of the GP
- Flexibility Questionnaire July 2021: 9 responses received so far
- Shortened questionnaire for non-Parties sent out on 15 November. We encourage non-Parties to take this opportunity to make their views known by responding to this questionnaire by 10 January 2022.

Submitting Comments

- Draft 2: Submit to Secretariat and copy GPG Chair (scavo.kimber@epa.gov) by 10 December
- Supplementary Information (Informal compilation document): Continue to submit to EMEP/WGE Co-chairs (Laurence.ROUIL@ineris.fr & isaura.rabago@ciemat.es) as we lead up to the WGSR60 and for preparation of Annex 1
- Final Draft: Schedule will be set and communicated soon

GPG Members

- *Chair:* Kimber Scavo
- *WGSR Bureau:*
Peter Meulepas, Dominique Pritula, Till Spranger, Donna Yates
- *WGE & EMEP SB Chairs:*
Isaura Rabago, Laurence Rouil
- *Invited experts:*
Richard Ballaman, Noe Megrelishvili
- *Task Force Co-Chairs:*
Rob Maas & Stefan Åström (TFIAM); Claudia Marques dos Santos, Tommy Dalgaard & Mark Sutton (TFRN); Tiziano Pignatelli & Jean-Guy Bartaire (TFTEI)
- *Advisors:* Anna Engleryd (EB), Susanne Lindahl (EC)
- *Secretariat:* Alina Novikova