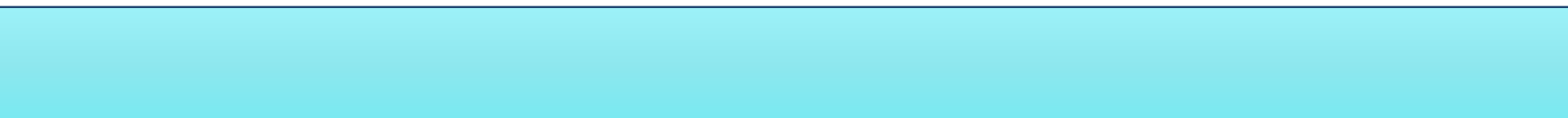




# UNECE's Air Convention Gothenburg Protocol Review

18 May 2021

Working Group on Strategies and Review  
*Gothenburg Protocol Review Group*



# *Gothenburg Protocol Review*

- 2012 amended Protocol (Protocol) entered into force on October 7, 2019; currently has 24 Parties
- Review of Protocol for sufficiency and effectiveness required by article 10
  - Specifically calls for an evaluation of mitigation measures for black carbon emissions and ammonia control measures (10.3 & 10.4)
  - A list of elements that is to be considered in the review was developed, based on the Long-term Strategy, recommendations from the Policy Review Group on the 2016 Scientific Assessment of the Convention, as well as inputs from the science bodies
- The review was launched in 2019 by decision EB 2019/4. WGSR was tasked with leading the review process and with developing the scope, content and work schedule of the review
- The WGSR Chair, in consultation with the EB Bureau, tasked a Gothenburg Protocol Review Group (GPG) to assist in this work

## *Key Priorities of the review*

- Initial focus on the legally required elements, including under article 10 of the Protocol (**black carbon** and **ammonia**); and broadly on existing elements like the **sufficiency** and **effectiveness** of current obligations and success in **achieving the Protocol's objectives**
- Review will also include elements meant to address gaps and additional inputs
- Gather information that will help inform recommendations and conclusions of the review to also support the increase in ratifications of Parties

# *Gothenburg Protocol Review Group*

- Developed the **“Preparations for the review of the Protocol to Abate Acidification, Eutrophication, and Ground-level ozone, as amended in 2012 (2020/3).”** Includes the scope and content of the review and elaborates on the elements found in EB Decision 2019/4. (Adopted at EB in December 2020)
- **Annex I** of the “Preparations” document provides a list of questions to the subsidiary bodies
- Based on the elements contained in the “Preparations” document for the review, a **“Draft annotated outline of the report on the review of the Protocol to Abate Acidification, Eutrophication and Ground-level Ozone (2021/4)”** has been prepared as official document for the 59<sup>th</sup> Session of the WGSR

# *Annex I of the “Preparatory” Document*

- List of questions to help guide Subsidiary Bodies (EMEP SB, WGE, WGSR, Parties and Non-Parties and IC) in preparing for the review
  - Each question has a suggested group, TF or centre that the GPG has proposed answer the question – some have more than one group identified
  - A number of questions are directed to WGSR itself – see informal document
- The answers to the questions will provide inputs needed to address the review elements (which were identified in the preparatory document and elaborated on in the annotated outline)

# *Elements of the review as reflected in Annex I of the “Preparatory” Document*

- Questions to Subsidiary Bodies of the Convention are divided into the following groups:
  - Review of **obligations** in relation to emission reductions
  - Review of **progress towards achieving** the environmental and health **objectives of the Protocol**
  - Review of **adequacy** of obligations in attaining the environmental and health **objectives of the Protocol**
  - Evaluation of mitigation measures for **black carbon** emissions
  - Evaluation of **ammonia** control measures and consideration of the need to revise annex IX

# *Draft Outline of the Report on the Review*

- A. Introduction
- B. Legal requirements for the review
- C. Emissions
- D. Measured and modelled atmospheric concentrations and deposition levels
- E. Measures and modelled effects on natural ecosystems, materials and crops and assessment of human health effects
- F. Emission reduction commitments for Parties
- G. Emission limit values, technical annexes and the related guidance documents of the Protocol (with priority given to black carbon and ammonia measures)
- H. Specific sector approaches (e.g., residential solid-fuel, agriculture, shipping)
- I. Non-technical measures, best available technology and energy-efficiency requirements
- J. Flexibility provisions
- K. Convention Parties that are not Parties to the Protocol
- L. Canada and the United States
- M. Hemispheric Transport
- N. Integrated multi-pollutant, multi-effect approach,
- O. Synergies and interactions with other policy areas
- P. Progress towards achieving the objectives of the protocol
- Q. Additional policy issues
- R. Conclusions

# *Inputs*

- Annex I Questions: Questions listed in each section
- Key documentation: See correlation table in Section III of 2021/4. Subsidiary bodies continue to submit documentation to the table & reports or separate informal documents needed for the Review.
- Timeline for completion of input: Bodies to insert timing of products and completion of work to answer the Annex I questions.
- Resource implications (as appropriate): Bodies to add needs to complete work.
- This information will evolve into the eventual conclusions and/or recommendations of the review



## *Process for submitting input*

- Initial input was due April 9 from EMEP SB, WGE and WGSR/GPG
- Informal document “Draft Report of the Review of the Gothenburg Protocol” is an initial Review draft and expanded version of the annotated outline (2021/4)
- Further input & key messages can be provided to EMEP SB/WGE Chairs & WGSR/GPG by 15 July and GPG will submit Draft 1 of the Review as an official document by September 2021 for the EB in December
- Progress on Draft 1 will be discussed at EB in December 2021, and further work on the review will continue into 2022
- Additional input into the review (Draft 2) will be accepted until Jan 10, the GPG will then work on Draft 2 and submit it by Jan 17 for the official document deadline for WGSR60
- Draft 2 to be discussed at WGSR 60 in April 2022; between April-Sept GPG will further elaborate the remaining inputs
- Final draft will be discussed at EMEP SB/WGE in September 2022
- The final draft will be submitted by official doc deadline in Sept 2022

# GPG Informal documents for the Review

- Draft Report of the Review of the Gothenburg Protocol Review
- Gothenburg Protocol Review Timeline
- WGSR Inputs to Annotated Outline
- Flexibilities in the Amended Gothenburg Protocol
- Issues to consider for Nitrogen in relation to the Gothenburg Protocol Submitted by TFRN. *Note: GPG did not have time to incorporate key information into the Draft report of the Review.*
- Note on non-technical and structural measures

# WGRS Inputs

- 1.5: Need information from Parties on 1.5 (a-e) and non-Parties on 1.5(d): Proposal to Submit by 30 September 2021
- 6.4: Proposal for Parties & TF Chairs to give views on which guidance documents should be updated as a priority and if there needs to be any new guidance documents. Responses to the Secretariat by 30 September 2021.
  - Need views on whether a guidance document is needed on non-technical measures. See informal document from WGRS58 re-posted for WGRS 59
- 6.1 Flexibility: Separate presentation on informal document “Flexibilities in the Amended Gothenburg Protocol:” comments due 15 July
- 6.3: TFIAM/CIAM will present on air & climate synergies, including methane.
- 6.2(a&b) Other articles: Proposal to collect preliminary views from Parties by 30 September 2021 on whether they are effective to meet the objective of the Protocol.
- 6.5: Policy implications for condensables
- Key messages/conclusions from 10.3/10.4 evaluations on black carbon emissions and ammonia control measures will be included in the Review

# Timeframe

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 &amp; 10.4 (WGSR informal documents)</i>
WGSR 59 (18-20 May 2021)	<b>First draft annotated outline</b> on the Review	February 2021
TF/centre/ICP meetings	<b>First draft</b> of the report for the review <b>Informal Document</b>	<b><u>Initial Input April 2021</u></b>
EMEP SB/WGE meeting (13-17 Sept 2021)	<b>First Draft</b> of report of the review ECE/EB.AIR/WG.#/##	September 2021
WGSR 60 (11-14 April 2022)	<b>Second Draft</b> of report of the review ECE/EB.AIR/WG.#/##	January 2022
EB 42 (Dec 2022)	<b>Final</b> report of review adopted/Conclude the Review	September 2022

# *GPG Members*

- *Chair:* Kimber Scavo
- *WGSR Bureau:*  
Ivan Angelov, Dominique Pritula, Till Spranger
- *WGE & EMEP SB Chairs:*  
Isaura Rabago, Laurence Rouil
- *Invited experts:*  
Richard Ballaman, Noe Megrelishvili, Peter Meulepas
- *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