



# Economic and Social Council

Distr.: General  
15 June 2022

Original: English

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## Economic Commission for Europe

Executive Body for the Convention on Long-range  
Transboundary Air Pollution

**Forty-first session**

Geneva, 6–8 December 2021

### **Report of the Executive Body on its forty-first session**

#### **Addendum**

#### **2022–2023 workplan for the implementation of the Convention**



## Introduction

1. The biennial workplan for the Convention on Long-range Transboundary Air Pollution aims to translate the vision and strategic priorities set out in the long-term strategy for the Convention for 2020–2030 and beyond (decision 2018/5, annex)<sup>1</sup> into a list of activities to be implemented by respective bodies under the Convention during the period 2022–2023. It is built on five main areas of work: science; policy; compliance; capacity-building and awareness-raising; and communication, outreach and cooperation. The document was compiled by the Executive Body Bureau and the secretariat, with input from subsidiary bodies, and contains a list of the main meetings under the Convention for the period 2022–2023.

2. During the biennium, the Convention task forces and centres carry out the activities in accordance with their revised mandates, as adopted by the Executive Body at its thirty-eighth and thirty-ninth sessions (Geneva, 10–14 December 2018, and 9–13 December 2019, respectively). The workplan contains additional activities of the task forces and centres not referred to in the mandates.

3. Full implementation of workplan activities will require resources in addition to those provided by the United Nations regular budget and the Protocol on Long-term Financing of the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP Protocol). Therefore, Parties are invited to support the Convention's activities in 2022–2023, particularly those not covered by the EMEP Protocol, by contributing to the Convention's trust fund, financing activities directly and making in-kind contributions. Resources required for activities not covered by the United Nations regular budget, the mandatory contributions under the EMEP Protocol or the recommended contributions under decision 2002/1 on the financing of core activities are indicated in United States dollars. The United Nations Economic Commission for Europe (ECE) secretariat will continue to administer the trust funds established for financing Convention activities and to enter into contractual arrangements with designated international centres for workplan implementation.

4. In accordance with article 11 of the Convention, ECE will continue to carry out the secretariat functions with which it has been entrusted. It will: convene and prepare the sessions of the Executive Body, the Working Group on Strategies and Review, the EMEP Steering Body, the Working Group on Effects; and, continue to support the Implementation Committee in accordance with decision 2012/25 on improving the functioning of the Implementation Committee, including by arranging for and servicing Implementation Committee meetings; and discharge other functions assigned to it by the Executive Body, subject to availability of resources.

## I. Science

5. In line with the priorities set out in the long-term strategy for the Convention for 2020–2030 and beyond, science-based decision-making and an effects-oriented approach as a foundation for sound policy will remain essential components of the Convention. Improving the scientific and technical basis of the Convention by better assessing progress in improving air quality and reducing human health impacts and materials and ecosystem effects will help to ensure that policymaking remains evidence-based and effective. The science-related work in the period 2022–2023 will aim to make additional progress on the remaining challenges identified in the long-term strategy and to include broad participation throughout the ECE region.

6. Scientific activities in the period 2022–2023 are presented in table 1 below.

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<sup>1</sup> All Executive Body decisions referred to in the present document are available at <https://unece.org/decisions>.

Table 1  
Scientific activities

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
<b>1.1 Improving tools to assess air pollution and its effects in the United Nations Economic Commission for Europe region</b>				
<b>1.1.1 Monitoring and modelling tools</b>				
1.1.1.1	Contribute to the Gothenburg Protocol review by:  (a) Taking stock of long-term trend analysis and key messages for policy effectiveness;  (b) Assessing the fitness for purpose of the monitoring and measurement tools to support policy (including recent developments on condensables, for instance).	Notes and contribution for the review of the Gothenburg Protocol (2022)	TFMM, MSC-W, CCC, MSC-E;  Task Force on Health, ICPs	Covered by EMEP budget  Covered by recommended contributions
1.1.1.2	Revising historical PM <sub>2.5</sub> emissions from residential combustion to consistently include condensable organics and assessment of the implication for the review of the Gothenburg Protocol	Analysis of emission data sets, including condensables for 2005–2018, EMEP MSC-W model calculation of PM trends and source-receptor matrices Contribution of condensables to population exposure and health impacts review (spring 2022, review during EMEP Task Force meetings and eighth joint session of SB to EMEP and WGE)	MSC-W in co-operation with CIAM, CCC, CEIP and TNO	Funding from Nordic Council of Ministers or other sources
1.1.1.3	Prepare and conduct intensive measurement period focused on improved understanding of high ozone pollution episodes	New EMEP field campaign (spring–summer 2022)	TFMM, CCC	Covered by EMEP budget and national contributions
1.1.1.4	Review of use of in-situ VOC measurements (including high quality and potential complementary sensors or passive methods) for revision and improvement of chemistry-transport models across a range of spatial scales: from local (industrial and urban) to regional background sites	EMEP report in 2022  Potential implications to revise profiles of VOC emission reporting (2023)	TFMM, CCC, MSC-W  TFEIP	Covered by EMEP budget
1.1.1.5	Perform Eurodelta multi-model intercomparison exercise focusing on BaP	First report in 2022  Final report and publications in 2023  Assessment of the relative importance of residential wood burning	TFMM, MSC-E, CCC	Covered by EMEP budget and national contributions

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
1.1.1.6	Investigating monitoring of chemicals of emerging concern	Workshop on measurement and modelling of new contaminants (2023)	TFMM, CCC, MSC-E, TFHTAP	Covered by EMEP budget
1.1.1.7	Preparation of data and model calculations necessary for “Multiscale GAINS”	EMEP/MSC-W country to grid (0.3° x 0.2°) based on “brute force”, 5 years of meteorology, 5 source pollutants (PPM, SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , VOC), extended EMEP domain including EECCA  Local fraction tracking (sectoral) of PPM with EMEP model (0.1°) “Exposure Correction Factor” and “Exceedance distribution correction” per grid (sector) based on uEMEP  (End 2022)	MSC-W	Covered by EMEP budget
1.1.1.8	Analysis of changes in chemical regime for N-compounds: is the efficiency of NH <sub>3</sub> measures changing? Impact on aerosol concentrations and depositions. Is the transport distance of reduced N changing?	Analysis of source receptor calculations for the past and the future (EMEP report 2022)	MSC-W	Covered by EMEP budget
1.1.1.9	Monitoring and assessment of impact on environment of corrosion and soiling effects on materials and their trends	Report of corrosion and soiling data from the exposure for trend analysis 2017–2021 (2022)  Environmental data report (2023)	ICP Materials	Covered by recommended contributions
1.1.1.10	Gathering information on policy-relevant, user-friendly indicators to evaluate air pollution effects on materials by conducting case studies on UNESCO cultural heritage sites	Report of trends in corrosion, soiling and pollution 1987–2021 (2023) Report on Call for Data – Part VI: Study on the relationship between the environment and the artefact at selected UNESCO sites (2022)  Report on Call for Data – Part VII: Application of models with increased resolution on selected UNESCO sites (2023)	ICP Materials	Covered by recommended contributions

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
1.1.1.11	Biological recovery and responses to changing water chemistry	Thematic report (2022)	ICP Waters	Covered by recommended contributions
1.1.1.12	Trends in base cations, potential drivers and implications for acidification status and biological recovery (to be discussed at task force meeting)	Thematic report (2023)	ICP Waters	Covered by recommended contributions
1.1.1.13	Call for data for moss survey 2020–2021(22) on heavy metals, N and POPs	Annual progress report (Final report 2024)	ICP Vegetation	In-kind contributions from participating countries
1.1.1.14	Ozone flux-based risk assessment for vegetation for air pollution scenarios relating to: (a) Implication on vegetation of scenarios focusing on the characterization of the contribution of methane as an ozone precursor – post hoc analysis; (b) The application of ozone modified photosynthesis-based flux-response models; (c) The effects of drought under present and future climatic conditions	Maps and report (2023)  Maps and report (2023)  Maps and report (2023)	ICP Vegetation in collaboration with MSC-W, CIAM, TFMM and TFHTAP	United Kingdom and in-kind contributions from participating countries
1.1.1.15	Review of ozone pollution and climate change impacts on vegetation – focus on implications for calculation and application of flux-based Critical Levels and risk assessment	Report (2023)	ICP Vegetation	United Kingdom and in-kind contributions from participating countries
1.1.1.16	State-of-knowledge report on “genetics of crop resilience to ozone and potential for crop breeding”	Report (2023)	ICP Vegetation	United Kingdom and in-kind contributions from participating countries
1.1.1.17	N deposition and its effects on forest health, productivity, carbon sequestration and biodiversity	Report and scientific paper on status and trends of N levels in European forests (2022, 2023)  Publication of the responses of European forest ecosystems to decreasing N deposition	ICP Forests	Covered by recommended contributions
1.1.1.18	Status and trends of heavy metals in forest ecosystems	Scientific paper on heavy metal concentrations in level I plots across Europe (2023)	ICP Forests	Covered by recommended contributions

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
	Air pollution-related cause-effect relationships in forests in a changing climate	Impact of climate on foliar nutrition in European tree species (scientific paper in 2023)	ICP Forests	Covered by recommended contributions
	Effects of air pollution on forest health, productivity, carbon sequestration and biodiversity	Report on effect of air pollution on forest health and productivity (2023)	ICP Forests	
1.1.1.19	Steady-state Critical Loads: (a) Update of National Critical Loads by National Focal Centres; (b) Establishment of European Background Database by CCE	Database (2020/2021) for Critical Loads for acidification and eutrophication; Report (2022)	CCE and ICP Modelling and Mapping	National Focal Centres and recommended contributions
1.1.1.20	Empirical Critical Loads: Review and revision of the CLemp N published in 2011 (continued)	Report on empirical Critical Loads in Europe (2022)	CCE and ICP Modelling and Mapping	Covered by CCE, CCE National Focal Centres and by recommended contributions
1.1.1.21	Update of the harmonized Convention receptor map	Harmonized receptor map for Europe (2023)	ICP Modelling and Mapping/CCE	CCE and Germany
1.1.1.22	Critical Levels of ammonia: literature review and empirical data provision supporting a workshop	Organization of an international workshop (2022) and workshop report (2023)	ICP Modelling and Mapping/CCE	CCE and Germany
1.1.1.23	Modelling interaction between air pollution and climate change: N and C	Expert workshop (2022)	ICP Modelling and Mapping/CDM	CDM and National Focal Centres experts
1.1.1.24	Modelling biodiversity change to set critical loads for N	Report on methodology development and proposal for call for data (2023)	ICP Modelling and Mapping/CDM/CE	CDM, CCE, and National Focal Centres experts
1.1.1.25	Operationalizing and advertising “IM light” as an attractive monitoring protocol, aiming at adding more ecosystem types in the monitoring by ICP Integrated Monitoring	An extension of the Integrated Monitoring methodology to include two additional levels of monitoring with fewer mandatory variables and an invitation to countries to join (2022)	ICP Integrated Monitoring	Covered by recommended contributions
1.1.1.26	Modelling and assessment of biodiversity and ecosystem impacts	Scientific paper (2023)	ICP Integrated Monitoring and CDM	Covered by recommended contributions
1.1.1.27	Consolidate existing evidence on health outcomes of exposure to air pollution	A report on methods for health risk/impact assessment of air pollution and cost-benefit analysis (update to HRAPIE project)	Task Force on Health in collaboration with other groups, for example, TFIAM	Expected to be covered by recommended contribution; further funding needed

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
		An overview on air pollution and COVID-19 (optional, pending resources)	Task Force on Health	
1.1.1.28	Further develop methodologies for assessment of direct and indirect impacts of long-range transboundary air pollution on human health	Update of tools for quantification of health impacts of air pollution, including links to climate change mitigation  Assessment of health co-benefits and trade-offs between climate change and clean air agendas (optional, pending resources)	Task Force on Health	Expected to be covered by recommended contribution and other potential donors; further funding needed
<b>1.1.2 Emission and projection tools</b>				
1.1.2.1	Planning and delivery of an updated EMEP/EEA Guidebook in 2023	Guidebook delivered (2023)	TFEIP, CEIP and national experts	Covered by national contributions
1.1.2.2	Review new guidance/methods for emissions from solvent and product use (Combustion and industry)	Contribution to the Guidebook (2023)	TFEIP and national experts	Covered by national contributions
1.1.2.3	Agriculture: further clarifying issues around proper accounting of emissions resulting from manure import/export and livestock allocations	Contribution to the Guidebook (2023)	TFEIP and national experts	Covered by national contributions
1.1.2.4	Proposal for an updated projection reporting template	Template adopted by EMEP SB (2022)	TFEIP and national experts	Covered by EMEP budget
1.1.2.5	Detailed analysis of status of inclusion of condensable component in PM emissions reported by Parties, based on the data provided by Parties in their Informative Inventory Reports and on direct communication with Parties for selected Nomenclature for Reporting categories (case studies)	Status reports (2022 and 2023)	CEIP and TFEIP in collaboration with MSC-W and TFMM	Covered by EMEP budget
1.1.2.6	Improving spatial distribution of emissions, ensuring consistency across pollutants, especially for regions where incomplete gridded data are reported to CEIP. New data sources will be explored jointly with IIASA/CIAM (CORINE Land Cover, population statistics)	Updated spatial distribution of emission inventories (2022)	CEIP in cooperation with CIAM	Need to find complementary resources
1.1.2.7	Improvement of data for the modellers: comparison of EMEP gridded emissions with other sources (CAMS, FAIRMODE)	Updated EMEP gridded emissions (2022–2023)	CEIP in collaboration with MSC-W, CAMS,	Covered by EMEP budget

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
			JRC and FAIRMODE	
1.1.2.8	Gap-filling of 2020 and 2021 emission data sets (the special conditions in these years (COVID-19 pandemic) will require refinement of the standard approaches)	Updated data sets and report (2022)	TFEIP	Need to find complementary resources
1.1.2.9	Refinement of reporting and gap-filling of shipping emissions to anticipate changes in modelling	Updated methodologies and emission data sets (2023)	TFEIP and CEIP	Need to find complementary resources
1.1.2.10	Complete refactoring of WebDab and the user interface for data queries to state-of-the-art technology, including integration of the gridding system to accelerate the gridding process and provide a more user-friendly access to gridded emissions	Updated WebDab interface (2023)	CEIP	Covered by EMEP budget
1.1.2.11	Compilation and analysis of options for metrics for reporting of BC (Inventory Guidebook relevance)	Options paper presented to Executive Body at its forty-second session	EMEP SB Bureau, with inputs from all relevant task forces and centres	
1.1.2.12	Update the Technical Guidance for Parties Making Adjustment Applications and for the Expert Review of Adjustment Applications	Updated Technical Guidance adopted by EMEP SB and presented to Executive Body at its forty-second session	TFEIP, CEIP	
1.1.2.13	Update Guidelines for reporting emissions and projections data under the Convention	Draft updated Guidelines	CEIP and TFEIP	EMEP mandatory contributions
<b>1.1.3 Integrated assessment tools</b>				
1.1.3.1	Scenario assessment relevant for the Gothenburg Protocol review and potential revision using multiscale GAINS and EMEP/uEMEP and including an extension of the GAINS domain (EECCA/West Balkans/Turkey)	Data and scenario analyses (2022–2023)	CIAM, TFIAM and MSC-W	Covered by EMEP budget
1.1.3.2	Scenario development for (potential) revision of the Gothenburg Protocol, including cost-effectiveness analysis of specific measures and assessment of the implication of improved modelling, among others, inclusion of condensables and marine deposition targets	Scenario analyses (2023)	TFIAM and CIAM	Covered by EMEP budget
1.1.3.3	Assessing observed trends in air pollution at the various scales	Contribution to the review of the Gothenburg Protocol (2022)	TFMM, TFHTAP, TFIAM and MSC-W	Covered by EMEP budget



<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
	Linkages between global and regional air pollution			
1.1.3.4	Impact of additional measures: Assess extent of recently implemented (by the Parties) additional measures, including best available technologies, and their respective contribution to meeting obligations	Report (2022)	CIAM in collaboration with TFTEI, TFEIP, TFRN	Covered by EMEP budget
1.1.3.5	Perform an evaluation of the impact of potential methane mitigation measures on regional ozone	Report and workshop organized in 2023	TFMM, TFHTAP, MSC-W, TFIAM and CIAM	Covered by EMEP budget
<b>1.1.4 Linking the scales</b>				
1.1.4.1	EPCAC activities	Activity report (2022) Two annual meetings of EPCAC (2022 and 2023)	TFIAM with nominated experts	Covered by in-kind contributions from participating countries
1.1.4.2	Development and design of global emission scenarios with a regional and sectoral breakdown to explore the mitigation potential in comparison to the baseline with a data set for use in Convention modelling tools	Report (2022–2023)	TFIAM and TFHTAP	
1.1.4.3	Complete the updated global emissions mosaic for traditional air pollutants (HTAPv3, 2000–2018)	Updated data set (2023)	TFHTAP in cooperation with CAMS, JRC, CIAM and TFEIP	Covered by Parties' in-kind contributions
	Incorporate emissions estimates for heavy metals and POPs; actual work in this regard unlikely to begin before 2023	Workshop to be organized in 2022	TFHTAP, MSC-E, TFEIP, CIAM	
1.1.4.4	Continue development of the openFASST tool for screening analysis of future scenarios and implications of global and regional model uncertainties	Tool updates (2022,2023)	TFHTAP	Covered by Parties' in-kind contributions
1.1.4.5	Investigating air-surface Hg exchange rates	Report (2023)	TFHTAP and MSC-E	Covered by EMEP budget and Parties' in-kind contributions
1.1.4.6	Elaborating global source/receptor relationships of combustion-related POPs and PM	Report (2023)	TFHTAP, TFMM and MSC-E	Covered by EMEP budget and Parties' in-kind contributions
<b>1.2 Cooperation with Parties</b>				
1.2.1	Country-scale assessment of heavy metal and POP pollution	A case study of Hg pollution in Norway involving national	MSC-E, TFMM, national experts	Covered by EMEP budget, Norway and Poland

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
		measurement data and modelling (2022–2023)		
		Continue the case study of PAH pollution and exceedances of air quality guidelines in Poland (2022–2023)		
1.2.2	Focus on EECCA and Western Balkans countries: Implementation of updated information about activities, costs of mitigation options, and improvement of spatial distribution of emissions; development of projections	Application of the updated GAINS multiscale model/EMEP/uEMEP (2022 and 2023 for projections for potential Gothenburg Protocol revision)	MSC-W and CIAM in collaboration with CEIP, TFTEL, MSC-E	
1.2.3	Capacity-building for health impact assessment of air pollution at regional and subregional levels	Development and implementation of capacity-building curriculum to address different needs	Task Force on Health	Expected to be covered by recommended contribution and other potential donors
<b>1.3 Cooperation with other projects and bodies (outreach activities)</b>				
1.3.1	Cooperation with HELCOM and OSPAR; marine environment protection	Evaluation of atmospheric load of heavy metals and POPs to Baltic and North Seas Reports (2022–2023) Evaluation of impact of air pollution on marine environment Evaluation of impact of chemicals of emerging concern in Baltic Sea Developments to include marine ecosystem protection in future emission reduction strategies	MSC-E, WGE, MSC-W, TFIAM AMP (Ad hoc Group on Marine Protection, including CCE and ICP Waters)	Covered by HELCOM and OSPAR funding Further funding needed
1.3.2	Cooperation with Climate and Clean Air Coalition	Report to annual joint sessions of SB to EMEP and WGE	EMEP with support from TFEIP, TFHTAP, TFMM	
1.3.3	Cooperation with Arctic Council and AMAP	Focus on BC, including cooperation on the work expected to be done in the framework of an EU-funded project lead by AMAP	CEIP, CIAM, MSC-W	Costs for activities primarily covered by AMAP via EU-funded project
1.3.4	Support Stockholm and Minamata Conventions in relation to atmospheric observations and data	Report to annual joint sessions of SB to EMEP and WGE	MSC-E	

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
	management within ECE region			
1.3.5	Capacity-building on health impact assessment of air pollution at regional and subregional levels	Development and implementation of capacity-building curriculum to address different needs	Task Force on Health	Expected to be covered by recommended contribution and other potential donors
1.3.6	Promote health messages related to air pollution in Europe	Formulation of health messages on air pollution, including on personal-level interventions  Workshop on risk communication, including for medical professionals, on health messages related to air pollution to the public and at individual level	Task Force on Health	Partly funded via European Commission grant; further funding needed
1.3.7	Cooperation and support to TFICAP	Participation in TFICAP meetings (2022–2023) and sharing of current capacity-building activities  Provision of scientific and technical input to TFICAP activities which:  (a) Facilitate mutual learning and collaboration on air pollution;  (b) Foster emissions reductions of air pollutants through exchange of information on best practices and policy approaches;  (c) Facilitate sharing of information technical capacity- building	WGE and EMEP ICs, task forces and centres	Expected to be covered by recommended contributions and other potential donors

#### **1.4 Improving the functioning of WGE and EMEP and of their subsidiary bodies**

1.4.	Restructuring common WGE website ( <a href="http://www.unece-wge.org">www.unece-wge.org</a> ) to highlight main areas of work conducted under WGE	New version of website launched in 2022 and update in 2023	WGE Bureau, CDM	Covered by recommended contributions
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*Abbreviations:* AMAP, Arctic Monitoring and Assessment Programme; BaP, benzo[a]pyrene; BC, black carbon; C, carbon; CAMS, Copernicus Atmosphere Monitoring Service; CCC, Chemical Coordinating Centre; CCE, Coordination Centre for Effects; CDM, Centre for Dynamic Modelling; CEIP, Centre on Emission Inventories and Projections; CIAM, Centre for Integrated Assessment Modelling; CLemp, empirical critical loads; CORINE, Coordination of Information on the Environment; COVID-19, coronavirus disease; EECCA, Eastern Europe, the Caucasus and Central Asia; EEA, European Environment Agency; Gothenburg Protocol, Protocol to Abate Acidification, Eutrophication and Ground-level Ozone; EMEP, Cooperative Programme for Monitoring

and Evaluation of the Long-range Transmission of Air Pollutants in Europe; EPCAC, Expert Panel on Clean Air in Cities; EU, European Union; FAIRMODE, Forum for Air quality Modelling; GAINS, Greenhouse Gas and Air Pollution Interactions and Synergies; HELCOM, Baltic Marine Environment Protection Commission; Hg, mercury; HRAPIE, Health risks of pollution in Europe; ICP, International Cooperative Programme; ICP Forests, ICP on Assessment and Monitoring of Air Pollution Effects on Forests; ICP Integrated Monitoring, ICP on Integrated Monitoring of Air Pollution Effects on Ecosystems; ICP Materials, ICP on Effects of Air Pollution on Materials, including Historic and Cultural Monuments; ICP Modelling and Mapping, ICP on Modelling and Mapping of Critical Levels and Loads and Air Pollution Effects, Risks and Trends; ICP Vegetation, ICP on Effects of Air Pollution on Natural Vegetation and Crops; ICP Waters, ICP on Assessment and Monitoring of Acidification of Rivers and Lakes; IIASA, International Institute for Applied Systems Analysis; IM, integrated monitoring; JRC, Joint Research Centre of the European Commission; Minamata Convention, Minamata Convention on Mercury; MSC-E, Meteorological Synthesizing Centre-East; MSC-W, Meteorological Synthesizing Centre-West; N, nitrogen; NH<sub>3</sub>, ammonia; NO<sub>x</sub>, nitrogen oxides; OpenFASST, open-source FAST Scenario Screening Tool; OSPAR, Commission for the Protection of the Marine Environment of the North-East Atlantic; PAH, polycyclic aromatic hydrocarbon; PM, particulate matter; PPM, primary particulate matter; POPs, persistent organic pollutants; S, sulfur; SB, Steering Body; SO<sub>2</sub>, sulfur dioxide; Stockholm Convention, Stockholm Convention on Persistent Organic Pollutants; Task Force on Health, Joint Task Force on the Health Aspects of Air Pollution; TFEIP, Task Force on Emission Inventories and Projections; TFHTAP, Task Force on Hemispheric Transport of Air Pollution; TFIAM, Task Force on Integrated Assessment Modelling; TFICAP, Task Force for International Cooperation on Air Pollution; TFMM, Task Force on Measurements and Modelling; TFRN, Task Force on Reactive Nitrogen; TFTEI, Task Force on Techno-economic Issues; TNO, Netherlands Organization for Applied Scientific Research; uEMEP, urban EMEP; UNEP, United Nations Environment Programme; UNESCO, United Nations Educational, Scientific and Cultural Organization; VOC, volatile organic compound; WebDab, EMEP emissions database; WGE, Working Group on Effects; WGSR, Working Group on Strategies and Review; WMO, World Meteorological Organization.

## II. Policy

7. In line with the priorities set out in the long-term strategy for the Convention, the policy-related work in the period 2022–2023 will, inter alia, aim to support increased ratification and implementation of the three most recent Protocols as amended (i.e. the Protocol to Abate Acidification, Eutrophication and Ground-level Ozone (Gothenburg Protocol), the Protocol on Heavy Metals and the Protocol on Persistent Organic Pollutants) throughout the United Nations Economic Commission for Europe (ECE) region, with a particular emphasis on the countries of Eastern Europe, the Caucasus and Central Asia. It will also continue to focus on the pollutants best controlled at the regional level and consider the need for further action to address emerging issues, including particulate matter and its precursors, black carbon as a component of particulate matter, tropospheric ozone and its precursors, eutrophying pollution with a focus on ammonia and, where still needed, acidifying pollution. An integrated approach to environmental policymaking will be sought that includes: interaction between ground-level ozone, nitrogen, climate change and ecosystems; integrated nitrogen management; and co-benefits and interactions between air pollution and climate change policies.

8. Policy work will also support the completion of the review of the Gothenburg Protocol as amended and consideration of the need for any future update of the Protocol. The Working Group on Strategies and Review is also expected to continue policy conversations on the hemispheric transport of ozone and particulate matter and their precursors, including a discussion of control strategies to recommend for use by the Task Force on Hemispheric Transport of Air Pollution in future scenarios. Specific policy-related activities in the 2022–2023 period are presented in table 2 below.

Table 2  
Policy

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
<b>2.1</b>	<b>Exchange of information, review of protocols and strategies and policies</b>			
2.1.1	Exchange information on national, subregional and regional policies and strategies for the control of major air pollutants, in accordance with article 8 of the Convention and the Protocols to the Convention. Provide a platform for sharing information on progress and challenges faced by countries in acceding to and implementing the Convention's three most recent Protocols	Information on strategies and policies for air pollution abatement throughout the ECE region, including information on measures shared at the sessions of the Working Group, following Executive Body decision 2016/3	Secretariat	
2.1.2	Review of sufficiency and effectiveness of the Gothenburg Protocol as amended	(a) Input provided to support the review;	WGSR, TFIAM, TFTEI, TFRN and scientific bodies	
		(b) Consideration of the main findings and conclusions of the review of the amended Gothenburg Protocol; final report on the review submitted to the Executive Body;	WGSR	
		(c) Session on barriers to ratification and implementation <sup>2</sup>	WGSR, EECCA Coordinating Group	
2.1.3	Consideration of the conclusions and implications for the way forward of the review of the amended Gothenburg Protocol	Recommendations to the Executive Body for next steps and further work	WGSR	
2.1.4	Policy discussions in follow-up to the Gothenburg Protocol review on reporting of condensable part in PM emissions	Recommendations provided to the Executive Body	WGSR	
2.1.5	Demonstrate the costs of inaction on air pollution to encourage ratification of the key Protocols to the Convention, in particular the Gothenburg Protocol.	Report for policymakers on the costs of inaction on air pollution submitted to the Executive Body	TFIAM, TFTEI	
2.1.6	Promotion of multiscale modelling for formulating effective measures and policies	Policy brief on multilevel governance	TFIAM	Funding needed

<sup>2</sup> In the event that it is feasible to organize an in-person event in 2022.

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
2.1.7	Discuss the implications of future global and regional emissions scenarios	(a) Based on scientific work under item 1.1.4.2, identify priority emission sectors and regions outside the Convention that have a significant potential to have an impact on the achievement of the Convention's goals;  (b) Make recommendations to the Executive Body.	WGSR, TFHTAP, TFIAM, CIAM  WGSR	
2.1.8	Activities to support broader geographic cooperation on air pollution	Carry out activities specified in the mandate	TFICAP (pending Executive Body decision)	In-kind contributions by participating countries
2.1.9	Review of the rules of procedure for the Convention and discussion on possible amendments	Recommendations provided to the Executive Body	WGSR	
<b>2.2</b>	<b>Development and promotion of guidance documents</b>			
2.2.1	Analysis of the interactions between emissions of methane and ammonia, and other nitrogen compounds, and the potential for their co-mitigation from agricultural sources	Guidance document and policy brief	TFRN in cooperation with other bodies	€50,000, subject to co-funding
2.2.2	Promotion of the Guidance document on integrated sustainable nitrogen management	Workshops with further analysis	TFRN	€50,000, subject to co-funding
2.2.3	Development of a Guidance document on non-technical and structural measures	Draft guidance document submitted for adoption by the Executive Body at its forty-third session	TFIAM, TFRN, TFTEI	In-kind contributions by participating countries
2.2.4	Promotion of guidance documents, including those recently adopted	Explore opportunities to promote guidance documents, including those recently adopted within and outside ECE	TFRN, TFTEI, TFIAM	
2.2.5	Launch preparation of new guidance documents or revision of existing guidance documents	Start preparations on new guidance documents or the revision of existing guidance documents identified as priority work in consideration of the conclusions of the review of the amended Gothenburg Protocol (launched 2023, as appropriate)	Task forces as relevant per guidance document for revision/new guidance document	

*Abbreviations:* EECCA Coordinating Group, Coordinating group on the promotion of actions towards implementation of the Convention in Eastern Europe, the Caucasus and Central Asia.

### III. Compliance

9. In accordance with the long-term strategy for the Convention for 2020–2030 and beyond, the Implementation Committee “should maintain its approach to compliance review with a focus on long-standing cases of non-compliance and should continue to support countries’ efforts to meet their emission reduction and reporting obligations”.<sup>3</sup> Any submission or referral made under paragraph 3 (b) of the Implementation Committee’s functions<sup>4</sup> will be dealt with as a priority, taking into account decision 2019/2. In this regard, the Committee will continue to review the progress made by the Parties in response to decisions taken by the Executive Body based on the Committee’s recommendations, and the need for possible additional measures for dealing with non-compliance on a case-by-case basis. Furthermore, in accordance with its functions, the Implementation Committee will consider, as necessary, systemic issues relating to compliance that have been identified. On the basis of information provided by the secretariat, the Committee will evaluate the reporting by Parties on their emission and projection data. The Committee will continue its dialogue with appropriate bodies and experts, with a focus on improving communication with the technical bodies under the Convention. Compliance-related activities in the period 2022–2023 are presented in table 3 below.

Table 3  
Compliance

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
3.1	Review compliance with reporting obligations: periodic review of compliance with Parties’ reporting obligations under the Convention’s Protocols, based on emission and projection data submitted to EMEP and available in WebDab	(a) Overview tables on status of reporting, for each of the seven Protocols;	CEIP	EMEP mandatory contributions
		(b) Notes on reporting obligations prepared and draft recommendations on reporting submitted for consideration by the Implementation Committee;	Secretariat	United Nations regular budget
		(c) Review of information submitted by the secretariat; recommendations submitted to the Executive Body.	Implementation Committee	
3.2	Consider submissions and referrals: consideration of any submission or referral of possible non-compliance by an individual Party with any of its obligations under a given Protocol	(a) Emission data trend tables and updates provided to the secretariat;	CEIP	EMEP mandatory contributions
		(b) Analysis of information provided by CEIP; communication with Parties in potential non-compliance; referrals; overview of communications with Parties submitted to the Implementation Committee.	Secretariat	United Nations regular budget

<sup>3</sup> Decision 2018/5, annex, para. 48.

<sup>4</sup> Decision 2012/25, annex.

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
		(c) Submissions by Parties and referrals by the secretariat reviewed; decisions on additional information to be requested from Parties in potential non-compliance; recommendations on non-compliance submitted to the Executive Body.	Implementation Committee	
3.3	Prepare an annual report on the Implementation Committee's activities to the Executive Body	Annual report with background, considerations and recommendations on compliance cases under review	Implementation Committee	
3.4	Review recommendations contained in the Implementation Committee report	Decisions on non-compliance and related issues	Executive Body	
3.5	Review and consider possible revisions to the mandate of the Implementation Committee, taking into account relevant Executive Body decisions and the recommendations and strategic priorities set out in the long-term strategy for the Convention for 2020–2030 and beyond and the policy response to the 2016 scientific assessment of the Convention	Proposal to the Executive Body for revised mandate of the Implementation Committee	Executive Body Bureau, ad hoc group of legal experts	

#### **IV. Capacity-building and awareness-raising to promote ratification and implementation**

10. A viable future for the Convention depends on positive and vigorous participation by the Parties in all parts of the region and on ensuring extensive geographical coverage. Capacity-building measures and activities will aim to achieve increased ratification and implementation of and compliance with the three amended Protocols. They will aim to “enhance skills; increase understanding of the provisions of the Protocols; improve the use of existing capacity; share lessons learned; and transfer knowledge related to air quality monitoring, emission inventories and projections and abatement strategies ... so that countries, particularly in Eastern Europe, the Caucasus and Central Asia, can adopt the best available techniques and implement emission reduction commitments”.<sup>5</sup> They will also aim at continued awareness-raising, particularly at the political level, of the need to improve air quality and the benefits of ratifying the Protocols,<sup>6</sup> of the environmental and health effects of air pollution, as well as of pollution abatement measures and their high benefit-to-cost ratio. The measures will also seek to further raise the Convention's political profile in countries of Eastern and South-Eastern Europe, the Caucasus and Central Asia, as well as in Turkey. Specific capacity-building and awareness-raising activities in the period 2022–2023 are presented in table 4 below.

<sup>5</sup> Decision 2018/5, annex, para. 47.

<sup>6</sup> *ibid.*, para. 46.



Table 4

**Capacity-building and awareness-raising to promote ratification and implementation**

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
4.1	Support for transposition of the provisions of the key Protocols into national legislation, such as introduction of BATs and/or other cost-effective measures in various economic sectors:		Secretariat (implementation of commitments, as specified in the respective grant agreements)	\$1 497 000 <sup>a</sup>
	(a) Development of gap-analysis in national legal framework, economic and environment impact assessment, and national action plan for implementation;	Strengthened capacity to adjust national legislation, update air pollution policy and action to implement the Convention and its Protocols		European Union Norway, Sweden, Switzerland (and other potential donors)
	(b) Organization of subregional workshops on implementation of BATs, including integrated environmental permitting system and/or emission reduction measures in various sectors (such as energy, industry, transport and agriculture, and others);	Improved capacity in developing guidance on the introduction and implementation of an integrated permitting procedure, BAT and emission reduction measures covering specific sectors		European Union (and other potential donors)
	(c) Demonstration of BAT implementation practices at selected enterprise(s) by implementing a pilot project on BAT application at country level and/or organizing study tours at subregional level	Increased awareness of the experience in introducing BAT and emission control technologies through organized study tours and pilot projects		Resources needed
4.2	Support provided for development of emission inventories, cost-effectiveness analysis, emission projections and emission reduction targets		Secretariat (implementation of commitments, as specified in the respective grant agreements)	
	(a) Organization of technical workshops at country level to further improve national emission inventories including gridded emissions and/or developing emission projections;	Reporting of emission inventories improved and emission projections developed by the target countries		European Union, Russian Federation (and other potential donors)
	(b) Assistance to national groups in developing emission reduction scenarios and setting emission reduction targets using relevant methods, including the GAINS model;	Emission reduction targets set by target countries in accordance with the requirements of the Gothenburg Protocol		European Union (and other potential donors)
	(c) Organization of subregional workshops on estimating emissions from road transport using advanced methods, including the COPERT model	Improved emissions reporting by providing high-quality, accurate data on emissions from road transport		Germany (and other potential donors)

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
4.3	Assessment of progress of target countries in relation to ratification (benefits, gaps, needs) and elaboration of necessary steps to be taken on the way towards ratification	Needs for further assistance and milestones to be achieved towards ratification by target countries identified	Secretariat, Coordinating Group	
4.4	Awareness-raising of air pollution, its environmental and health effects, and abatement measures among target countries:		Secretariat, Coordinating Group	
	(a) Organization of targeted national clean air dialogues among stakeholders from different ministries to promote cross-sectoral cooperation and raise awareness;	Raised awareness through national clean air dialogues in target countries		European Union (and other potential donors)
	(b) Organization of events and campaigns to raise awareness of the effects of and measures to reduce air pollution (e.g., as described in technical guidance documents);	Raised awareness and understanding of effects of and measures to reduce air pollution		European Union (and other potential donors)
	(c) Development of self-paced e-learning courses to raise awareness of the Convention and its Protocols;	Increased understanding of the provisions of the Convention and its key Protocols through e-learning courses		Germany, Sweden, European Union (and other potential donors)
	(d) Translation of relevant documentation and communication materials into Russian (priorities to be established by the Coordinating Group), and further development and maintenance of the website in Russian, as relevant	Availability of information materials in Russian; increased awareness of the Convention among countries of the subregion		
4.5	Support provided to increase information exchanges and peer-to-peer cooperation among target countries:		Secretariat	\$35 000 (Russian Federation and other potential donors)
	(a) Sessions of the Coordinating Group (in cooperation with TFTEI and, potentially, other groups and bodies under the Convention) to exchange information, build capacity and network;	Progress reports to the Executive Body	Coordinating Group, TFTEI	
	(b) Working sessions of the Coordinating Group on the margins of the sessions of the Executive Body and subsidiary bodies;	Progress reports to the Executive Body	Coordinating Group, Secretariat	\$18 000 (Russian Federation and other potential donors)
	(c) Strengthen participation of countries of Eastern and South-Eastern Europe, the Caucasus and Central Asia in the work of the Executive Body and its subsidiary bodies by providing travel support	Participation of representatives of countries with economies in transition in the sessions of the Executive Body, its subsidiary	Secretariat	\$180 000 (Switzerland, European Union and other potential donors)

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
		bodies and other relevant meetings		

<sup>a</sup> Subject to availability of funding.

*Abbreviation:* BATs, best available techniques; COPERT, Computer Programme to calculate Emissions from Road Transport.

## V. Communication, outreach and cooperation

11. In accordance with the long-term strategy for the Convention for 2020–2030 and beyond, there is a need for improved communication on work under the Convention, achievements and remaining challenges in order to raise awareness among policymakers and the public. “The strong available scientific evidence of the negative impact of air pollution on health, materials and ecosystems highlights the need for further action in order to improve air quality and public health, including by increasing cooperation with non-ECE regions”.<sup>7</sup> The strategy states that: “The bodies under the Convention should also enhance efforts in their communication activities to raise awareness of the compelling environmental, health and economic rationale for action on air pollution and to increase the visibility of the Convention, building on the successes of multilateral cooperation within the Convention system in dealing with increasingly complex science-policy issues.”<sup>8</sup> Outreach activities will be undertaken to maintain the Convention’s visibility on the international scene, to foster cooperation between regional agreements around the world and to share the Convention’s experience with a view to advancing a shared response to addressing air pollution globally, in accordance with United Nations Environment Assembly of UNEP resolution 3/8 on preventing and reducing air pollution to improve air quality globally.<sup>9</sup> Cooperation with other regions and forums on intercontinental air pollution issues will be pursued. The “Convention will share experience and scientific expertise”<sup>10</sup> with other regions, specifically in the context of the forum for collaboration on reducing air pollution.

12. Table 5 below does not repeat the communication and outreach tasks specifically assigned to any of the technical or subsidiary bodies and, as such, incorporated as items under the science and policy sections in the workplan.

<sup>7</sup> Decision 2018/5, annex, para. 43.

<sup>8</sup> *ibid.*, para. 71.

<sup>9</sup> UNEP/EA.3/Res.8, para. 7 (i).

<sup>10</sup> Decision 2018/5, annex, para. 76.

Table 5  
**Communication, outreach and cooperation**

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
<b>5.1</b>	<b>Communication</b>			
	Raise public awareness of the Convention and the overall visibility of air pollution issues throughout the ECE region and beyond	(a) Press releases, leaflets, articles and other materials; information disseminated through social media platforms. This may include relevant information provided by the Convention's scientific bodies, in particular non-technical summaries with clear conclusions, recommendations and interesting facts for dissemination among external audiences;	Secretariat	\$50 000 <sup>a</sup>
		(b) The Convention website as main channel for communication with the public is updated in a user-friendly manner (within formal ECE limitations);	Secretariat	
		(c) Infographics, videos or other materials to inform the public of the positive impacts of decreasing transboundary air pollution for better air quality in cities	Parties	
<b>5.2</b>	<b>Outreach and cooperation</b>			
5.2.1.	Engage in outreach and cooperation activities, including through participation in key regional and international events and processes and through organization of events to raise awareness of the Convention and its work on effects of and measures to reduce air pollution and to foster cooperation	Webinars, side events and workshops with partners promoting reductions of air pollution and improved awareness of the Convention	Secretariat	\$80 000 <sup>b</sup>
5.2.2	Contact relevant partner organizations, international financial institutions and other networks (see decision 2018/5, annex, para. 73)	Maintain contact with other organizations and networks  Cooperation with other international organizations, leading to improved understanding, information or data exchange	Secretariat, technical bodies	
5.2.3	Explore possibilities for continuing BACA initiative launched at 2016 Eighth Environment for Europe Ministerial Conference	Use of BACA initiative as instrument to support countries' efforts in improving air quality	Executive Body	
5.2.4	Promote awareness of the Convention, as relevant, with other ECE multilateral environmental agreements and programmes	Improved awareness among other ECE programmes of the Convention and the linkages between air pollution and relevant cross-sectoral issues	Secretariat	

<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	<i>Resource requirements and/or funding source</i>
5.2.5	Promote participation of ECE and non-ECE experts in technical meetings and meetings of task forces and make use of web-based meeting tools as far as possible	Improved participation and outreach	Task forces and technical bodies under the Convention	

<sup>a</sup> Subject to availability of funding.

<sup>b</sup> Subject to availability of funding for items 5.2.1–5.2.5.

*Abbreviations:* BACA, Batumi Action for Cleaner Air.

## VI. Main meetings under the Convention

13. The Executive Body, the Working Group on Strategies and Review and the EMEP Steering Body will hold their annual sessions in Geneva. The ECE secretariat will arrange for the meetings, preparation and translation of official documentation and interpretation. The secretariat will also support the meetings of the Bureaux of the Executive Body and the main subsidiary bodies. Organization of any additional meetings will require additional resources according to the estimations provided by the secretariat.

14. In accordance with paragraph 2 of the annex to decision 2012/25, the Implementation Committee will hold a total of four meetings in the period 2022–2023. The ECE secretariat will arrange for and service those meetings, as per paragraph 2 bis of the annex to decision 2012/25.

15. Table 6 below contains a list of the meetings to be held in the period 2022–2023. Dates for 2023 are tentative and will be confirmed at a later date. A list of official documents for the plenary meetings of the Executive Body and the subsidiary bodies is presented in the annex below.

16. The full list of meetings, including those of task forces and the Coordinating Group on promotion of actions towards implementation of the Convention on Long-range Transboundary Air Pollution in Eastern Europe, the Caucasus and Central Asia, as well as capacity-building workshops, will be posted on the Convention website.

Table 6

### Meetings of the Executive Body, the Steering Body to the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe, the Working Group on Effects, their Bureaux and the Implementation Committee

<i>Year</i>	<i>Body</i>	<i>Meeting/session</i>	<i>Dates</i>	<i>Location</i>
<b>2022</b>	Bureaux of the EMEP Steering Body and the Working Group on Effects		March 2022	To be decided
	Bureau of the Executive Body		April 2022	Geneva
	Working Group on Strategies and Review	Sixtieth session	11–14 April 2022	Geneva
	Implementation Committee	Forty-eighth session	May 2022	To be decided
	Working Group on Strategies and Review	Sixty-first session	July 2022 (tentative)	Geneva

<i>Year</i>	<i>Body</i>	<i>Meeting/session</i>	<i>Dates</i>	<i>Location</i>
	Implementation Committee	Forty-ninth session	September 2022	To be decided
	Bureau of the Executive Body		September 2022	Geneva
	EMEP Steering Body, Working Group on Effects	Eighth joint session	12 (p.m.)–16 (a.m.) September 2022	Geneva
	Bureau of the Executive Body		12 December (a.m.) 2022	Geneva
	Executive Body	Forty-second session	12 (p.m.)–16 December 2022	Geneva
<b>2023</b>	Bureaux of the EMEP Steering Body and the Working Group on Effects		March 2023	To be decided
	Implementation Committee	Fiftieth session	May 2023 (tentative)	To be decided
	Bureau of the Executive Body		May 2023 (tentative)	Geneva
	Working Group on Strategies and Review	Fifty-ninth session	May 2023 (tentative)	Geneva
	Working Group on Strategies and Review	Sixtieth session	August/September 2023 (tentative)	Geneva
	Implementation Committee	Fifty-first session	September 2023 (tentative)	To be decided
	Bureau of the Executive Body		September 2023	Geneva
	EMEP Steering Body, Working Group on Effects	Ninth joint session	September 2023	Geneva
	Bureau of the Executive Body		December 2023	Geneva
	Executive Body	Forty-third session	December 2023	Geneva

## Annex

### **List of official documents for the sessions of the Executive Body and the main subsidiary bodies in 2022–2023**

#### **2022**

##### **Working Group on Strategies and Review (sixtieth session)**

###### Agenda

Report of the Working Group on Strategies and Review on its sixtieth session

Report of the Task Force on Techno-economic Issues

Report of the Task Force on Reactive Nitrogen

Draft report on the review of the Gothenburg Protocol

Report for policymakers on the costs of inaction

Flexibilities and barriers to ratification

##### **EMEP Steering Body and the Working Group on Effects (eighth joint session)**

###### Agenda

Report of the EMEP Steering Body and the Working Group on Effects on their eighth joint session

Scientific information for the review of the Gothenburg Protocol

Measurements and Modelling (report of the Chair of the Task Force on Measurements and Modelling)

Integrated assessment modelling (report of the Chair of the Task Force on Integrated Assessment Modelling)

Emission inventories (report of the Chair of the Task Force on Emission Inventories and Projections)

Present state of emission data (report of the Centre on Emission Inventories and Projections)

Hemispheric transport of air pollution (report of the Chair of the Task Force on Hemispheric Transport of Air Pollution)

Activities of the Bureaux of the EMEP Steering Body and the Working Group on Effects

Review of adjustment applications

Technical report of the International Cooperative Programme on Assessment and Monitoring of Air Pollution Effects on Forests

Technical report of the International Cooperative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes

Technical report of the International Cooperative Programme on Effects of Air Pollution on Materials, including Historic and Cultural Monuments

Technical report of the International Cooperative Programme on Effects of Air Pollution on Natural Vegetation and Crops

Technical report of the International Cooperative Programme on Integrated Monitoring of Air Pollution Effects on Ecosystems

Technical report of the International Cooperative Programme on Modelling and Mapping of Critical Levels and Loads and Air Pollution Effects, Risks and Trends

Technical report of the Joint Task Force on the Health Aspects of Air Pollution

Strategy for scientific bodies under the Convention on Long-range Transboundary Air Pollution

Updated guidelines for reporting emissions and projections data under the Convention

Financial and budgetary matters

Updated Technical Guidance for Parties Making Adjustment Applications and for the Expert Review of Adjustment Applications

### **Executive Body (forty-second session)**

Agenda

Report of the Executive Body on its forty-second session

Financial requirements for the implementation of the Convention

Report of the Implementation Committee

Draft decisions of the Executive Body

Report on the review of the Gothenburg Protocol

Scientific information for the review of the Gothenburg Protocol

Technical information for the review of the Gothenburg Protocol

Flexibilities and barriers to ratification

Report for policymakers on the costs of inaction

## **2023**

### **Working Group on Strategies and Review (sixty-first session)**

Agenda

Report of the Working Group on Strategies and Review on its sixty-first session

Report of the Task Force on Techno-economic Issues

Report of the Task Force on Reactive Nitrogen

Report of the Task Force for International Cooperation on Air Pollution

Draft 2024–2025 workplan for the implementation of the Convention: policy-related aspects and elements

Draft Guidance document on non-technical and structural measures

Policy brief on multilevel governance

Draft Guidance document/policy brief on co-mitigation of methane and ammonia, and other nitrogen compounds, from agricultural sources

### **Working Group on Strategies and Review (sixty-second session) (to be confirmed)**

Agenda

Report of the Working Group on Strategies and Review on its sixty-second session



Draft Guidance document on methane mitigation technologies by TFTEI

Draft Guidance document on shipping by TFTEI

[PLACEHOLDER, as appropriate] Options for revising the 1999 Gothenburg Protocol to Abate Acidification, Eutrophication and Ground-level Ozone, as amended in 2012

### **EMEP Steering Body and the Working Group on Effects (ninth joint session)**

Agenda

Report of the EMEP Steering Body and the Working Group on Effects on their ninth joint session

Joint report by the EMEP Steering Body and the Working Group on Effects

Measurements and Modelling (report of the Chair of the Task Force on Measurements and Modelling)

Integrated assessment modelling (report of the Chair of the Task Force on Integrated Assessment Modelling)

Emission inventories (report of the Chair of the Task Force on Emission Inventories and Projections)

Present state of emission data (report of the Centre on Emission Inventories and Projections)

Hemispheric transport of air pollution (report of the Chair of the Task Force on Hemispheric Transport of Air Pollution)

Activities of the Bureaux of the EMEP Steering Body and the Working Group on Effects

Review of adjustment applications

Technical report of the International Cooperative Programme on Assessment and Monitoring of Air Pollution Effects on Forests

Technical report of the International Cooperative Programme on Assessment and Monitoring of Acidification of Rivers and Lakes

Technical report of the International Cooperative Programme on Effects of Air Pollution on Materials, including Historic and Cultural Monuments

Technical report of the International Cooperative Programme on Effects of Air Pollution on Natural Vegetation and Crops

Technical report of the International Cooperative Programme on Integrated Monitoring of Air Pollution Effects on Ecosystems

Technical report of the International Cooperative Programme on Modelling and Mapping of Critical Levels and Loads and Air Pollution Effects, Risks and Trends

Technical report of the Joint Task Force on the Health Aspects of Air Pollution

Draft 2024–2025 workplan for the implementation of the Convention (science part)

Financial and budgetary matters

### **Executive Body (forty-third session)**

Agenda

Report of the Executive Body on its forty-third session

Draft 2024–2025 workplan for the implementation of the Convention

Financial requirements for the implementation of the Convention

Report of the Implementation Committee

Draft decisions of the Executive Body

Guidance document on non-technical and structural measures

Policy brief on multilevel governance

Guidance document/policy brief on co-mitigation of methane and ammonia, and other nitrogen compounds, from agricultural sources

Guidance document on methane mitigation technologies

Guidance document on shipping

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