



Economic Commission for Europe**Executive Body for the Convention on Long-range
Transboundary Air Pollution****Thirty-ninth session**

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Item 9 of the provisional agenda

Draft 2020–2021 workplan for the implementation of the Convention**Draft 2020–2021 workplan for the implementation of the
Convention***Summary*

The present document sets out the draft workplan for the implementation of the Convention, translating the vision, objectives and strategic priorities outlined in the Long-term strategy for the Convention on Long-range Transboundary Air Pollution for 2020–2030 and beyond (ECE/EB.AIR/142/Add.2, decision 2018/5, annex) into a list of activities to be implemented by respective bodies under the Convention during the period 2020–2021.

The present document was compiled by the Executive Body Bureau and the secretariat, with input from the subsidiary bodies, taking into account proposals made by the ad hoc policy review group of experts on the 2016 scientific assessment of the Convention (informal document No. 4, presented at the thirty-eighth session of the Executive Body (Geneva, 10–14 December 2018) and the report of the ad hoc policy review group of experts (ECE/EB.AIR/WG.5/2017/3 and Corr.1)).

The draft workplan presents proposed additional activities for the biennium, not included in the revised mandates of scientific centres and task forces adopted by the Executive Body.

The Executive Body is invited to consider and adopt the draft 2020–2021 workplan.



I. 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 (ECE/EB.AIR/142/Add.2, decision 2018/5, annex) into a list of activities to be implemented by respective bodies under the Convention during the period 2020–2021. Its structure is built on five main areas of work: science; policy; compliance; capacity-building; and communication, outreach and cooperation. During the biennium, the task forces and centres under the Convention will carry out the activities in accordance with their revised mandates as adopted by the Executive Body at its thirty-eighth session (Geneva, 10–14 December 2018) and proposed for adoption at the thirty-ninth session. The workplan contains additional activities of the task forces and centres not mentioned in the mandates. It also contains a list of the main meetings under the Convention for the period 2020–2021.

2. The document was compiled by the Executive Body Bureau and the secretariat, with input from subsidiary bodies, taking into account proposals made by the ad hoc policy review group of experts on the 2016 scientific assessment of the Convention (informal document No. 4 presented at the thirty-eighth session of the Executive Body and the report of the ad hoc policy review group of experts (ECE/EB.AIR/WG.5/2017/3 and Corr.1)).

3. The full implementation of the activities in the workplan 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 2020–2021, 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 the activities under the Convention and to enter into contractual arrangements with designated international centres for implementation of the workplan.

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 their Bureaux; continue to support the Implementation Committee in accordance with decision 2012/25, including by arranging for and servicing the meetings of the Implementation Committee; and discharge other functions assigned to it by the Executive Body subject to available resources.

II. 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 2020–2021 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. Science project activities in the 2020–2021 period are presented in table 1 below.

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>
1.1	Improving tools to assess air pollution and its effects in the ECE region			
1.1.1	Monitoring and modelling tools			
1.1.1.1	Assessment of PAH pollution levels, key sources and trends: contribution to the analysis of population exposure to PAHs	(a) Multimodel analysis of B(a)P pollution levels in framework of EMEP EuroDelta-Carb intercomparison exercise (b) Detailed assessment of PAH pollution in Poland, with emphasis to evaluation of national emissions and exceedances of air quality guidelines (c) Model assessment of key source categories and analysis of PAH pollution levels in the EMEP region. Technical report on assessment of PAH pollution on national and regional scales as contribution to analysis of the effectiveness of the POPs Protocol (2021)	MSC-E in collaboration with TFTEI and TFH	EMEP mandatory contributions
1.1.1.2	Harmonize and improve approaches to PM inventory emissions and modelling, accounting for so-called condensable compounds	Expert workshop on condensables (2020) Minutes and report to EMEP Steering Body (2020)	MSC-W in cooperation with CEIP, TFMM, TFEIP, TFIAM	Nordic Council of Ministers/other sources
1.1.1.3	BC assessment (will also be part of a EuroCarb study) Provide background information for inclusion of BC in revised Gothenburg Protocol	Take stock of the joint EMEP/ACTRIS/COLOSSA L winter 2017/2018 field campaign by launching a dedicated model intercomparison exercise (Eurodelta-Carb, in collaboration with CAMS focusing on black carbon, organic aerosols and B(a)P First report and publications (2020) Assessment of the relative importance of residential wood burning and road transportation for Black Carbon from both models and measurements (2021)	TFMM, MSC-W, CCC, in cooperation with CAMS, ACTRIS, COLOSSAL, IPCC, AMAP, TFEIP	Need for voluntary (in-kind) contributions from interested countries

<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>
1.1.1.4	Investigating monitoring of chemicals of emerging concern	Review of the main stakes (2020) Report in 2021	CCC with TFMM	EMEP mandatory contributions
1.1.1.5	Monitoring and assessment of the impact of corrosion on the environment and of soiling effects on materials and their trends	Environmental data report (2020) Report of trends in corrosion, soiling and pollution 1987–2019 (2020) Technical Manual 2017–2021 (2021) Revision of the Mapping Manual to include soiling (2021)	ICP Materials	Recommended contributions
1.1.1.6	Gathering information on policy-relevant user-friendly indicators to evaluate air pollution effects on materials by conducting case studies on UNESCO cultural heritage sites	Call for data on UNESCO sites Report focused on the relative importance of individual pollutants regarding the cost of damage for selected UNESCO sites (2020) Report on application of models with increased resolution (1km x 1km) at selected UNESCO sites (2021)	ICP Materials	Recommended contributions
1.1.1.7	Thematic report on reactive nitrogen (special attention to nitrogen saturation and influences of nitrogen downstream of headwaters)	Final report (2020)	ICP Waters in cooperation with ICP Integrated Monitoring and other bodies, under the Convention, if possible	Recommended contributions
1.1.1.8	Thematic report on biological recovery and responses to changing water chemistry (to be discussed at the Task Force meeting in 2020)	Final report (2021)	ICP Waters, with possible contributions from other bodies under the Convention	Recommended contributions
1.1.1.9	Review of interactive impacts of ozone and nitrogen on vegetation	Report (2020)	ICP Vegetation	United Kingdom, Sweden and other interested countries
1.1.1.10	Ozone flux-response relationships by means of DO3SE model (ICP Vegetation) and ICP Forests ozone data and response parameters	Ozone effect on radial tree growth across Europe (2021)	ICP Forests	National funding

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1.1.1.11	Nitrogen deposition and its effects on forest vegetation (monitoring activities according to the ICP Forests Manual)	Reports about status and trends of N levels in European forests (2020, 2021)	ICP Forests	Recommended contributions
1.1.1.12	Status and trends of heavy metals in forest ecosystems	Maps of heavy metal concentrations across Europe for two different survey periods (2020) Scientific paper or report (2021)	ICP Forests	\$22 000
1.1.1.13	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	CCE and ICP Modelling and Mapping	CCE National Focal Centres and Germany
1.1.1.14	Empirical Critical Loads: Validation and revision of the empirical Critical Loads published in 2011	Report on empirical Critical Loads in Europe (2021)	CCE and ICP Modelling and Mapping	CCE, CCE National Focal Centres and recommended contributions
1.1.1.15	Scientific paper on impacts of internal catchment-related nitrogen parameters to total inorganic nutrient nitrogen leaching	Scientific paper (2020)	ICP Integrated Monitoring	Recommended contributions
1.1.1.16	Report on Hg and HM trends in concentrations and fluxes across ICP Integrated Monitoring sites in Europe	Report (2021)	ICP Integrated Monitoring	Recommended contributions
1.1.1.17	Scientific paper on effects of nitrogen enrichment on forest vegetation. Cooperation between ICP Integrated Monitoring and ICP Forests	Scientific paper (2020)	ICP Integrated Monitoring	Recommended contributions
1.1.1.18	Consolidate existing evidence on health outcomes of exposure to air pollution	Update of the evidence on the health impact of ozone, PM, nitrogen dioxide, sulphur dioxide and carbon monoxide A (scoping) report on emerging issues and methods for health risk/impact assessment of air pollution and cost benefit analysis (pending availability of resources)	Task Force on Health	European Commission and other potential donors; further funding needed
1.1.1.19	Evaluate the current knowledge on the health risk of PAHs and identify critical gaps; assess	Technical report on health risks of PAHs	Task Force on Health	Canada, Finland, Norway, Sweden,

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	feasibility of continuing the work under the Task Force on Health			Switzerland and United Kingdom
1.1.1.20	Estimation of canopy exchange processes for a better assessment of the impact of inorganic nitrogen	Report/scientific paper	ICP Forests	Funding needed
1.1.1.21	Call for submission of data on heavy metal, nitrogen and POPs concentrations in mosses to be sampled in 2020/2021	Annual progress report (final report 2024)	ICP Vegetation	United Kingdom
1.1.1.22	Review of the dynamic modelling work under the Convention; identification of areas of common interest and potential gaps	Final report 2020	CDM and ICP Modelling and Mapping	Recommended contributions
1.1.1.23	Development of metrics for quantifying damage to biodiversity due to air pollution and of biodiversity damage indicators suitable as a criterion for calculating critical loads for nitrogen as a nutrient	Report on indicators of damage to biodiversity (2021)	CDM in cooperation with CCE and ICP Modelling and Mapping	Recommended contributions
1.1.2	Emissions and projection tools			
1.1.2.1	Detailed analysis of the status of inclusion of the condensable component in PM emissions reported by Parties based on the data provided by Parties in their IIRs and on direct communication with Parties for selected NFR categories (case studies)	Status report (2020)	CEIP and TFEIP in collaboration with MSC-W and TFMM	EMEP mandatory contributions
1.1.2.2	Improving methods for gap filling and gridding of BC emissions data by considering new data sources (IIASA, CORINE Land Cover, population statistics)	Updated BC emission inventories (2020–2021) New TFEIP black carbon working group	CEIP in cooperation with CIAM TFEIP (accounting for on-going dialogue with IPCC)	Funding needed
1.1.2.3	Improvement of data for the modellers: comparison of EMEP gridded emissions with other sources (CAMS, FAIRMODE)	Status report and recommendation for further improvement of EMEP gridded emissions (2021)	CEIP in collaboration with MSC-W, CAMS, JRC and FAIRMODE	EMEP mandatory contributions

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1.1.2.4	Drafting a paper on opportunities arising from earth observation	First draft in 2020 Final paper in 2021	TFEIP in cooperation with CAMS	In-kind contributions from participating countries
1.1.2.5	Dealing with fine timescale emission estimates	Draft guidance in 2021	TFEIP in cooperation with TNO (the Netherlands)	In-kind contributions from participating countries
1.1.3	Integrated assessment tools			
1.1.3.1	IAM-Framework for the review of the amended Gothenburg Protocol, Assessment of extent to which long-term targets will be met (in 2020–2030–2050), when technical annexes of the amended Gothenburg Protocol will be implemented completely	Position paper for the review of the amended Gothenburg Protocol (2020) Data and scenario analyses (2021)	TFIAM and CIAM	In-kind contributions from participating countries and EMEP mandatory contributions
1.1.3.2	Assessing observed trends in air pollution at the various scales Follow-up on the measurement (twin-sites) and modelling approaches to assess the long-range contribution to urban air pollution. Linkages between global and regional air pollution	Note as a contribution to the review of the Gothenburg Protocol (2020)	TFMM, TFHTAP, TFIAM, MSC-W	In-kind contributions from participating countries
1.1.3.3	Ammonia: Contribute to improve understanding of expected benefit of ammonia mitigation in terms of wet and dry nitrogen deposition (including at high spatial resolution), long-term trends, chemical regimes of secondary inorganic aerosol formation	Ammonia assessment report in 2020	TFIAM with support from TFMM, TFRN and national experts (France, the Netherlands)	In-kind contributions from participating countries
1.1.4	Linking the scales			
1.1.4.1	EPCAC road map	Position paper on multiscale interactions (2020) Two annual meeting of EPCAC (2020 and 2021)	TFIAM with nominated experts	In-kind contributions from participating countries
1.1.4.2	Downscaling of EMEP/MS-CW modelling results to fine scale, while keeping the consistency to the larger scale (for example, that reductions done on larger scale will affect the fine scale in	Results for PM and NO ₂ , report (2020). Maps for reduced nitrogen deposition for selected countries, report (2021)	MS-CW with TFMM and national experts	Funding needed

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	<p>a consistent way). Evaluate the approach for countries that have detailed emission/proxy data and measurements data (for example, the Netherlands, United Kingdom, Switzerland) together with the countries concerned.</p> <p>Develop methodology for downscaling of deposition, with a focus on reduced nitrogen.</p>			
1.1.4.3	Attribution of long-term changes of Hg and POP pollution to regional and extraregional (global, secondary) sources	<p>(a) Analysis of available global Hg and POP emissions inventories (for example, EDGAR, UNEP) for evaluation of long-term pollution changes;</p> <p>(b) Model assessment of the role of regional, global and secondary sources in long-term changes of Hg and POP pollution on a global scale, with focus on the EMEP region.</p> <p>Technical Report on source attribution of long-term changes of Hg and POP pollution (2021)</p>	MSC-E, TFHTAP, in cooperation with AMAP, Stockholm Convention, Minamata Convention	EMEP mandatory contributions/other resources
1.1.4.4	Investigations on global scenarios and assessment of global sectoral mitigation measures	Report (2021)	TFIAM and TFHTAP	In-kind contributions from participating countries
1.1.4.5	Organize development of an updated global emissions mosaic to support future modelling efforts to quantify extraregional contributions to air quality and deposition	Data set (2021)	TFHTAP in cooperation with CAMS	In-kind contributions from participating countries
1.1.4.6	Continue development of the open-FASST tool for screening analysis of future scenarios and implications of global and regional model uncertainties	Tool updates (2020, 2021)	TFHTAP	In-kind contributions from participating countries
1.1.4.7	Organize analysis and model improvements needed to improve the estimation of the health and environmental benefits of decreasing ozone through mitigation of methane emissions	Workshop (2020)	TFHTAP with MSC-W, ICP Vegetation, TFEIP, TFTEI, TFMM	In-kind contributions from participating countries

<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>
1.2	Cooperation with Parties			
1.2.1	Downscaling of HM pollution assessment from regional to national and local levels (country-scale studies)	(a) Detailed evaluation of heavy metal (Pb, Cd, Hg) pollution levels in a selected country (Germany) involving variety of national data; (b) Evaluation of national emissions using modelling results and observations (c) Recommendations for improvement of assessment quality both at national and regional scales Joint report on heavy metal (Pb, Cd, Hg) pollution of Germany (2020)	MSC-E in collaboration with TFMM and Germany (UBA)	Germany (\$28 000)
1.2.2	Capacity-building for the health impact assessment of air pollution at regional and subregional levels	Development and implementation of the capacity-building curriculum to address different needs	Task Force on Health	Recommended contribution/other
1.3	Cooperation with other projects and bodies (outreach activities)			
1.3.1	Cooperation with CAMS	Implementation of NRT facilities to report observations (2020) Validation of CAMS products with EMEP sites	CCC	Other sources (CAMS)
1.3.2	Cooperation with CCAC	Strategy to deal with emission reporting at the global scale and with black carbon control Common strategy in 2020	EMEP with support from TFEIP, TFHTAP, TFMM	In-kind contributions from participating countries
1.3.3	Cooperation with Arctic Council and AMAP	Focus on black carbon under AMAP assessment with enhanced international cooperation and exchange of information and expertise in partnership with the European Union funded <i>Action on BC in the Arctic</i> project	CEIP, CIAM, MSC-W	Other sources (AMAP under European Union contract)
1.3.4	Support UNEP Stockholm Convention in relation to atmospheric observations and data management within the ECE region	Report to EMEP/WGE annual meetings	MSC-E	Other sources (UNEP)

<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>
1.3.5	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 the health burden of air pollution; also linking to climate change mitigation	Task Force on Health	Recommended contributions/other sources
1.3.6	Development of communication strategies for health messages related to air pollution in Europe	Workshop on communication strategy; regional input to the global activity coordinated by WHO Headquarters	Task Force on Health	Recommended contributions/other sources
1.3.7	Initiate cooperation with LifeWatch ERIC	Report 2020	WGE and all ICPs	Funding needed
1.4	Improving the functioning of the WGE and EMEP and of their subsidiary bodies			
1.4.1	Ozone flux-based risk assessment for vegetation at various air pollution scenarios (for a potential review of the Gothenburg Protocol)	Maps and report (2021)	MSC-W, ICP Vegetation, TFMM	EMEP mandatory contributions, in-kind contributions from participating countries
1.4.2	Ozone flux-based risk assessments adapted for vegetation in soil moisture limited areas	Maps and report (2020)	MSC-W, ICP Vegetation, TFMM	EMEP mandatory contributions, in-kind contributions from participating countries
1.4.3	Test the development and application of photosynthesis-based flux-response models	Report (2021)	ICP Vegetation and MSC-W	United Kingdom

Abbreviations: ACTRIS, Aerosols, Clouds and Trace Gases Research Infrastructure Network; AMAP, Arctic Monitoring and Assessment Programme; B(a)P, benzo[a]pyrene; BC, black carbon; CAMS, Copernicus Atmosphere Monitoring Service; CCC, Chemical Coordinating Centre; CCE, Coordination Centre for Effects; Cd, cadmium; CDM, Centre for Dynamic Modelling; CEIP, Centre on Emission Inventories and Projections; CIAM, Centre for Integrated Assessment Modelling; COLOSSAL, Chemical On-Line Composition and Source Apportionment of fine aerosol; CORINE, Coordination of information on the environment; DO3SE, Deposition of Ozone for Stomatal Exchange; EDGAR, Emission Database for Global Atmospheric Research; EPCAC, Expert Panel on Clean Air in Cities; FAIRMODE, Forum for air quality modelling in Europe; Hg, mercury; HM, heavy metal; IAM, Integrated Assessment Modelling; 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; IIR, Information Inventory Report; IPCC, Intergovernmental Panel on Climate Change; JEG, Joint Expert Group on Dynamic Modelling; JRC, Joint Research Centre of the European Commission; LifeWatch ERIC, LifeWatch European Research Infrastructure Consortium; Minamata Convention, Minamata Convention on Mercury; Modelling and Mapping Manual, Manual on Methodologies and Criteria for Modelling and Mapping Critical Loads and Levels and Air Pollution Effects, Risks and Trends; MSC-E, Meteorological Synthesizing Centre-East; MSC-W, Meteorological Synthesizing Centre-West; N, nitrogen; NFR, Nomenclature For Reporting; NO₂, nitrogen dioxide; NRT, Near Real Time; Open-FASST, open-source FASST Scenario Screening Tool; PAH, polycyclic aromatic hydrocarbon; Pb, lead; PM, particulate matter; POPs, persistent organic pollutants; Stockholm Convention, Stockholm Convention on Persistent Organic Pollutants; S, sulphur; TFEIP, Task Force on Emission Inventories and Projections; TFH, Task Force on Health (Joint Task Force on the Health Aspects of Air Pollution); TFHTAP, Task Force on the Hemispheric Transport of Air Pollution; TFIAM, Task Force on Integrated Assessment Modelling; 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; UBA, German Environment Agency; UNEP, United Nations Environment Programme; UNESCO, United Nations Educational, Scientific and Cultural Organization; WGE, Working Group on Effects; WGSR, Working Group on Strategies and Review; WHO, World Health Organization; WMO, World Meteorological Organization.

III. Strategies and policies development, review and revision of Protocols

7. In line with the priorities set out in the long-term strategy for the Convention, the policy-related work in the period 2020–2021 will, among other things, 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 ECE region, with particular emphasis on the countries in 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 for 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 preparation for a review of the Gothenburg Protocol, and the potential consideration of updates following the review. The Working Group on Strategies and Review is expected to start 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 2020–2021 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>
2.1	Exchange of information and review/development of strategies and policies			
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 latest Protocols. Share information about progress in the implementation of Parties' voluntary commitments under the BACA initiative	(a) 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 (b) Recommendations to the Executive Body on strengthening the ratification of the Protocols	Secretariat WGSR	–
2.1.2	Define the scope and content of the future review of the	Recommendations to the Executive Body on work to	WGSR	–

<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>
	sufficiency and effectiveness of the Gothenburg Protocol, assuming it enters into force in 2019	support the preparatory phase of the next review of the Gothenburg Protocol Policy discussions in the framework of the WGSR; recommendations on control strategies		
2.1.3	Discuss control strategies to recommend for use by the Task Force on Hemispheric Transport of Air Pollution in future scenarios	Development of policy questions; recommendations on priority sectors for analysis	WGSR, TFIAM, – TFHTAP	–
2.1.4	Discuss hemispheric transport to further inform the review of the Gothenburg Protocol	Policy discussions in the framework of the WGSR; related recommendations made to the Executive Body	WGSR	–
2.1.5	Discuss next steps on broader geographic cooperation on air pollution, including the role for the Convention and for the proposed forum for cooperation	Recommendations made to the Executive Body	WGSR	–
2.1.6	Undertake a review of the control costs currently used with a view to improving – on an ongoing basis – the cost-effectiveness analyses produced by the GAINS model, including a comparison of cost estimates from different models and the improvement of the cost estimates of the impacts of air pollution on health and ecosystems	Review of control costs currently used and update	TFTEI, TFIAM	Funding needed
2.1.7	Produce a report for policymakers that clearly sets out the costs of controls versus the costs of inaction to encourage ratification and implementation of the Protocols	Report for policymakers	TFTEI, TFIAM	Funding needed
2.1.8	Carry out other tasks specified in mandates		TFTEI, TFRN	In-kind contributions by participating countries
2.1.9	Carry out tasks to support the review of the Gothenburg Protocol, with an initial focus on, but not limited to, article 10, paras. 3 and 4	Input provided to support the review of the Gothenburg Protocol	TFTEI, TFRN	In-kind contributions by participating countries
2.2	Development and promotion of guidance documents			

<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>
2.2.1	Development of guidance in relation to prioritizing reductions of particulate matter in its sources that are also significant sources of black carbon	Draft guidance document submitted for adoption by the Executive Body	TFTEI, TFIAM	In-kind contributions by participating countries
2.2.2	Development of guidance on reduction of emissions from agricultural residue burning	Draft guidance document submitted for adoption by the Executive Body	TFRN, TFTEI	In-kind contributions by participating countries
2.2.3	Finalization and promotion of the guidance document on integrated sustainable nitrogen management	Draft guidance document submitted for adoption by the Executive Body	TFRN	Funding needed

Abbreviations: BACA=Batumi Action for Cleaner Air; GAINS, Greenhouse Gas and Air Pollution Interactions and Synergies; TFTEI = Task Force on Techno-economic Issues; TFIAM = Task Force on Integrated Assessment Modelling; TFRN = Task Force on Reactive Nitrogen; WGSR = Working Group on Strategies and Review.

IV. 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” (ECE/EB.AIR/142/Add.2, decision 2018/5, annex, para. 48). Any submission or referral made under paragraph 3 (b) of the Implementation Committee’s functions (ECE/EB.AIR/113/Add.1, decision 2012/25, annex) will be dealt with as a priority, taking into account decision 2019/[xx]. 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 2020–2021 period are presented in table 5 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 Protocols to the Convention, based on emission and projection data submitted to EMEP and available in the WebDab emission database	(a) Overview tables on status of reporting, for each of the seven Protocols (b) Notes on reporting obligations prepared and draft recommendations on reporting submitted for consideration by the Implementation Committee	CEIP Secretariat	EMEP mandatory contributions United Nations regular 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>
		(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 (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	CEIP Secretariat	EMEP mandatory contributions United Nations Regular budget
		(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	–

Abbreviations: CEIP = Centre on Emission Inventories and Projections

V. Capacity-building and awareness-raising to promote ratification and implementation in Eastern and South-Eastern Europe, the Caucasus and Central Asia

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” (ECE/EB.AIR/142/Add.2, decision 2018/5, annex, para. 47). 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 (ibid., para. 46), 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 political profile of the Convention in countries of Eastern and South-Eastern Europe, the Caucasus and Central Asia. Specific capacity-building and awareness-raising activities in the 2020–2021 period are presented in table 4 below.

Table 4

Capacity-building to promote ratification and implementation in Eastern and South-Eastern Europe, the Caucasus and Central Asia

<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	Encourage ratification and implementation of the Convention and its Protocols among the target countries, in particular the EMEP Protocol, the Gothenburg Protocol, the Protocol on Heavy Metals and the Protocol on POPs, and facilitate information exchange, reporting under the Convention and cooperation by providing: (a) Support to countries in national legal framework analyses, introduction and implementation of integrated environmental permitting procedures and BAT and/or other cost-effective measures in various sectors	Strengthened capacity to adjust national legislation, update air pollution policy and action plans and enhance the implementation of the Convention and its Protocols in the target countries Improved capacity in developing guidance on the introduction and implementation of an integrated permitting procedure and BAT covering specific sectors	Secretariat (implementation of commitments, as specified in the respective grant agreements)	\$1 210 000 ^a

				<i>Resource requirements and/or funding source</i>
<i>Workplan item</i>	<i>Activity description/objective</i>	<i>Expected outcome/deliverable</i>	<i>Lead body(ies)</i>	
		Increased awareness of the experience in introducing BAT and control technologies through organized study tours		
		Improved national capacity to comply with BACA commitments submitted by target countries		
	(b) Technical assistance to further improve reporting of emission inventories under the Convention	Improved reporting of emission inventories by the target countries		
	(c) Assistance to national teams of experts in the development of emission projections, the estimation of base year emissions and the setting of emission reduction targets for 2020 and beyond in the target countries	Emission projections developed, base year emission levels estimated and emission reduction targets for 2020 and beyond set by the target countries in accordance with the requirements of the Gothenburg Protocol		
4.2	Assessment of progress of target countries in relation to ratification (benefits, gaps, needs) and elaboration of the necessary steps to be taken on the way towards ratification	Needs for further assistance and milestones to be achieved towards ratification of target countries identified	Secretariat, Coordinating Group	
4.3	Raise awareness of air pollution, its environmental and health effects, and abatement measures among the target countries through translation of relevant documentation and communication materials into Russian (priorities to be established by the Coordinating Group), and the 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	Secretariat, Coordinating Group	
4.4	Annual 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	Annual progress reports to the Executive Body	Coordinating Group, TFTEI	\$35 000 (Russian Federation 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>
4.5	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	\$20 000 (Russian Federation and other potential donors)
4.6	Strengthen the participation of countries in 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 bodies and other relevant meetings	Secretariat	\$400 000 (Switzerland and other potential donors)

^a Subject to funding availability.

Abbreviation: BAT, best available techniques; Coordinating Group, Coordinating Group on the promotion of actions towards implementation of the Convention in Eastern Europe, the Caucasus and Central Asia; POPs, persistent organic pollutants; TFTEI, Task Force on Techno-economic Issues; WGSR, Working Group on Strategies and Review.

VI. 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” (decision 2018/5, annex, para. 43). The strategy sets out 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” (ibid., para. 71). Outreach activities will be undertaken to maintain the visibility of the Convention 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 resolution 3/8, paragraph 7 (i). Cooperation with other regions and forums on intercontinental air pollution issues will be pursued. The “Convention will share experience and scientific expertise” (ibid., para. 76) 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.

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>
5.1	Communication			\$60 000 ^a
	Raise public awareness of the Convention and the overall visibility	(a) Press releases, leaflets, articles and other materials;	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>
	of air pollution issues throughout the ECE region and beyond	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 (b)The Convention website as the main channel for communication with the public is updated in a user-friendly manner (within formal ECE limitations) (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	Secretariat Parties	
5.2	Outreach and cooperation			\$140 000 ^b
5.2.1	Engage in outreach and cooperation activities, including the forum for collaboration on reducing air pollution	Outreach and cooperation activities on reducing air pollution	Secretariat	
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	Reach out to other regions through participation in key regional and international events and processes, to raise awareness and foster cooperation	Improved awareness of the Convention's role in addressing regional air pollutants and lessons from that experience that could be used by international efforts in other regions or contexts	Secretariat	\$15 000 (travel)
5.2.4	Raise awareness of the commitments made by countries and organizations under the BACA initiative launched at the Eighth Environment for Europe Ministerial Conference in 2016	Improved awareness of the BACA initiative	Secretariat	
5.2.5	Promote awareness of the Convention, as relevant, with other	Improved awareness among other ECE programmes of the Convention and the linkages	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>
	ECE multilateral environmental agreements and programmes	between air pollution and relevant cross-sectoral issues		

^a Subject to funding availability.

^b Subject to funding availability for items 5.2.1 to 5.2.5.

VII. 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, for the preparation and translation of official documentation and for interpretation. The secretariat will also support the meetings of the Bureaux of the Executive Body and the main subsidiary bodies.

14. In accordance with decision 2012/25, the Implementation Committee will hold a total of four meetings in the period 2020–2021. The ECE secretariat will arrange for and service those meetings, as per paragraph 2bis of decision 2012/25.

15. Table 6 below contains a list of these meetings to be held in 2020–2021. Dates for 2021 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 as an informal document.

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 EMEP Steering Body, 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>
2020	Bureaux of the EMEP Steering Body and the Working Group on Effects		March 2020	Paris
	Implementation Committee	Forty-fourth session	May 2020	Paris
	Bureau of the Executive Body		26 May (a.m.)	Geneva
	Working Group on Strategies and Review	Fifty-eighth session	26 (p.m.)–29 May 2020	Geneva
	Implementation Committee	Forty-fifth session	September 2020	Geneva
	Bureau of the Executive Body		14 September (a.m.) 2020	Geneva
	EMEP Steering Body, Working Group on Effects	Sixth joint session	14 (p.m.)–18 September 2020	Geneva
	Bureau of the Executive Body		14 December (a.m.) 2020	Geneva
Executive Body	Fortieth session	14 (p.m.)–18 December 2020	Geneva	

<i>Year</i>	<i>Body</i>	<i>Meeting/session</i>	<i>Dates</i>	<i>Location</i>
2021	Bureaux of the EMEP Steering Body and the Working Group on Effects		March 2021	To be decided
	Implementation Committee	Forty-sixth session	May 2021 (tentative)	To be decided
	Bureau of the Executive Body		May 2021 (tentative)	Geneva
	Working Group on Strategies and Review	Fifty-ninth session	May 2021 (tentative)	Geneva
	Implementation Committee	Forty-seventh session	September 2021	Geneva
	Bureau of the Executive Body		September 2021	Geneva
	EMEP Steering Body, Working Group on Effects	Seventh joint session	September 2021	Geneva
	Bureau of the Executive Body		December 2021	Geneva
	Executive Body	Forty-first session	December 2021	Geneva