First draft report on the development of guidance on methodologies for inventories of mercury releases to land and water

15 May 2019

Introduction

The Conference of the Parties in its decision MC-2/3 on releases to land and water established a group of technical experts to develop draft guidance on methodologies for preparing inventories for a list of potentially relevant point source categories, and requested the group to prepare a report including

- a list of any significant anthropogenic point source of release categories not addressed in provisions of the Convention other than article 9; and
- a suggested roadmap and structure for the development of draft guidance on methodologies for preparing its inventories.

Decision MC-2/3 also requested the secretariat to circulate a call to parties, signatories and other stakeholders to identify possible point source categories of releases to be included in the list referred to in paragraph 1 of the decision, and to compile the submissions into a report including the relevant point source categories identified in, inter alia, the United Nations Environment Programme toolkit for identification and quantification of mercury releases, the Minamata Initial Assessments and the Global Mercury Assessment, and to share the report with the group of experts.

Comments and relevant information were received from Argentina, Canada, Costa Rica, European Union, Mauritius, Montenegro, Norway, the Secretariat of the Barcelona Convention and the Mediterranean Action Plan, and Natural Resources Defense Council. These comments were compiled and circulated to the group of technical experts.

Definition of key terms

The group reviewed the submissions through two teleconferences. The group considered that, for the identification of significant anthropogenic point sources of release categories not addressed in provisions of the Convention other than article 9, there needs to be a common understanding about what is meant by key terms such as "point source", "significant" and "addressed".

Point source

Article 9 of the Convention provides no definition of point source. UNECE Protocol on Pollutant Releases and Transfer Register provides that each Party shall establish and maintain a publicly accessible national pollutant release and transfer register that is facility-specific with respect to reporting on point sources, and accommodates reporting on diffuse sources. It defines "facility" as one or more installations on the same site, or on adjoining sites, that are owned or operated by the same natural or legal person; and "diffuse sources" as the many smaller or scattered sources from which pollutants may be released to land, air or water, whose combined impact on those media may be significant and for which it is impractical to collect reports from each individual source. The Protocol on Heavy Metals under the UNECE Convention on Long-Range Transboundary Air Pollution and the Convention for the Protection of the Marine Environment of the North-East Atlantic include definitions of related terms such as "stationary sources" and "land-based sources".

Under the Clean Water Act of the United States of America, the term "point source" means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include agricultural stormwater discharges and return flows from irrigated agriculture.

Commented [A1]: This is key. Article 9 is aimed at controlling releases from significant point sources, such as discharges from large facilities. The COP did not intend or agree to include insignificant point sources or diffuse sources. (https://www.epa.gov/cwa-404/clean-water-act-section-502-general-definitions). The European Environment Agency defines a point source as a stationary location or fixed facility from which pollutants are discharged; any single identifiable source of pollution; e.g. a pipe, ditch, ship, ore pit, factory smokestack (EEA Glossary, https://www.eea.europa.eu/help/glossary/eea-glossary/point-source). Definitions used in several other jurisdictions were provided by experts.

Significant

Subparagraph 2(b) of article 9 provides that "relevant source" means any significant anthropogenic point source of releases as identified by a party that is not addressed in other provisions of the Convention. Therefore, parties may decide whether a source of releases to land or water within its territory is significant, and thus triggers measures for controlling and/or reducing the releases. In doing so, parties may take into account the quantity of releases, location and exposure pathways.

Addressed in other provisions of the Convention

Several other articles of the Convention address the control and reduction of releases of mercury and mercury compounds to land and water. Since article 9 provides for measures to control releases and development of inventory, one should consider whether other provisions address these aspects.

Pursuant to article 3, existing primary mercury mines are only allowed for a period of up to 15 years after entry into force of the Convention for a Party. Releases to land and water from mercury mines in this period are not addressed in article 3. Mercury waste from mercury mining is covered by article 11.

Article 4 disallows the manufacturing of products listed in part I of annex A after the phase out date which is dependent on the exemption requests submitted by parties. However, releases to land and water from the production of products not listed in Annex A, including products that contain mercury below specified concentration limits, are not addressed in article 4. For dental amalgam in part II of annex A, a party has the option to choose, out of nine measures, to promote best environmental practice to reduce releases. As such, mercury releases from dental practices are addressed for parties that choose to promote best environmental practice, but not addressed for parties that do not choose so.

Subparagraph 5(a) of article 5 provides that each party with one or more facilities listed in annex B shall take measures to address emissions and releases of mercury and mercury compounds. Therefore, these facilities are addressed by article 5. Release inventory is not explicitly mentioned in article 5. Releases from manufacturing processes not listed in Annex B are not addressed by article 5.

Article 7 provides that parties that determine that artisanal and small-scale gold mining (ASGM) is more than insignificant in their territory shall take steps to reduce, and where feasible eliminate, the use of mercury and mercury compounds, and the emissions and releases to the environment of mercury. Therefore, releases from ASGM is addressed by article 7, while articles 11 and 12 also address some aspects. Release inventory is not explicitly mentioned in article 7.

Article 8 provides that parties shall require the use of best available techniques (BAT) and best environmental practices (BEP) to control, and where feasible, reduce emissions from new sources of emission to air. It also provides that, for existing sources, parties shall take measures that may include a quantified goal, emission limit values, the use of BAT and BEP, etc. The guidance on BAT/BEP adopted by the Conference of the Parties takes into account the need to minimize cross-media effects. Therefore, mercury releases from sources listed in annex D may be addressed by measures to implement article 8 for some countries, and may not be addressed by others. Release inventory is not explicitly mentioned in article 8.

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Commented [A3]: As written, this section is a bit confusing. While certain releases may not be addressed by other provisions in the Convention, they may be insignificant or diffuse and therefore should not be included in the inventory. Perhaps remove sentences stating that release inventories are not mentioned in other articles, as this could be irrelevant.

For example: Article 7, last sentence "release inventory is not explicitly mentioned in article 7" – is this suggesting that ASGM releases should be included in an inventory of releases? Also, wouldn't most of the ASGM be considered a diffuse source and not be part of the inventory? Article 10 provides that parties shall take measures to ensure that the interim storage of mercury and mercury compounds other than waste is undertaken in an environmentally sound manner. The guidelines on the environmentally sound interim storage include measures to prevent releases. Therefore, releases of mercury and mercury compounds from interim storage is addressed by this article.

Article 11 provides that parties shall take appropriate measures so that mercury waste is managed in an environmentally sound manner, taking into account the guidelines developed under the Basel Convention. Therefore, this article addresses releases of mercury to land and water arising from the management of mercury waste, including for example releases from treatment of tailings and slurries from non-ferrous metal production. However, the current guidelines under the Base Convention only describes releases from waste incineration and waste landfill. Release inventory is not explicitly mentioned in article 11

Article 12 provides that parties shall endeavor to develop appropriate strategies for identifying and assessing sites contaminated by mercury and mercury compounds. It does not include obligation of parties to address the releases of mercury releases. Therefore, releases from contaminated sites are not addressed by article 12.

Consolidated list of potentially relevant point source categories

The table below is a compilation of submissions on potentially relevant point sources, based on the UNEP toolkit for identification and quantification of mercury releases. The group of technical experts has not been able to review this table in detail, and the inclusion of a source category in this list does not imply that it was agreed by the group. It should be noted that some sources under these source categories may be regarded as diffuse sources. Furthermore, because Parties decide whether a source of releases to land or water within its territory is "significant", some of the sources below have been included for information, but may not be deemed significant in all cases (e.gie. low quantities or concentrations of releases). These have been included to illustrate the work of the expert group.

Preliminary list of potentially relevant point source categories

Source	category in the Toolkit	Release points*	Remarks
Source cat	tegory: Extraction and use	of fuels/energy sources	
5.1.1	Coal combustion in power plants	Water: Releases from coal wash. Wet and semi-wet flue gas scrubbers may release waste water. Land: Solid flue gas residues used in cement production, under roads, deposited on-site or disposed to landfill. Solids from any water cleaning likely deposited?	Parties may address these releases as part of cross-media measures under article 8.
5.1.2.1	Coal combustion in coal fired industrial boilers	Similar with 5.1.1 for some big facilities. Minor facilities may release solid residues from dust filter.	Parties may address these releases as part of cross-media measures under article 8.
5.1.2.2	Other coal use	Perhaps releases as dust from filters in some cases.	
NEW	Coal mining	Mercury levels low unless concentrated by for example coal wash, which is known to release mercury to water and land/waste	

Commented [A4]: Releases from contaminated sites would most likely be from diffuse sources, and not covered under Article 9.

Commented [A5]: "May be regarded" makes it seem as though we have not come to a common understanding of the definition of a point source.

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Commented [A6]: Since this table is meant to identify possible point sources only, we should not list any diffuse sources. By including everything, this is leading to confusion.

Instead, we should create a separate table of diffuse sources for informational purposes, to provide clarity on what does not need to be included in the inventory.

		· · · · · · ·	
		deposits. Some countries apply	
		coal wash in the mining areas.	
5.1.3	Mineral oils -	Mercury may be released to water	
	extraction, refining	from offshore oil extraction as well	
	and use	as from oil refining. The same is	
		likely the case for on-shore	
		extraction. Major oil-based	
		industrial boilers and power	
		generation with dust filters release	
		mercury-containing filter residues	
		to land or waste (depending on	
		local regulation).	
5.1.4	Natural gas -	Offshore natural gas extraction	
	extraction, refining	releases mercury to water. The	
	and use	same is likely the case for on-shore	
		extraction. Gas extraction in high-	
		level mercury regions may have	
		mercury filters from which residues	
		are disposed of vas waste or	
		regenerated offsite. (Gas	
		condensates have concentrated	
		mercury and may sometimes be	
		deposited or released to land. In	
		some cases mercury is extracted	
		from the condensate for marketing	
		or final disposal).	
5.1.5	Other fossil fuels -	Lack of data on this subject	
	extraction and use		
5.1.6	Biomass fired power	Major biomass industrial boilers	
	and heat production	and power generation with dust	
		filters may release mercury-	
		containing filter residues to land or	
		waste (depending on local	
		regulation).	
5.1.7	Geothermal power	Depending on technology vents	
	production	may release mercury if	
		underground is mercury-rich;	
		sometimes mercury is absorbed in	
		filters and absorbents are	
		regenerated offsite (extracted	
		mercury is marketed or disposed	
		as waste), or perhaps in some	
		cases disposed as waste.	
NEW	Reprocessing of	Lack of information on this subject	
	spent nuclear fuels.	· · · · · · · · · · · · · · · · · · ·	
Source ca	ategory: Primary (virgin) m	etal production	·
5.2.1	Mercury (primary)	May have massive releases to	
··· ·	extraction and initial	water and land.	
	processing		
5.2.2	Gold (and silver)	Massive mercury releases to land	Addressed in Article 7
5.2.2	extraction with	and water	
	mercury		
	incrouty		

	amalgamation			
	processes			
5.2.3	Zinc extraction and	Mining and concentration phases	Parties may address	
0.2.0	initial processing	likely have significant mercury	these releases as part of	
	finder proceeding	releases to water and land, but data	cross-media measures	Commented (A7): The netential mercury release is
		are lacking. Extraction phase	under article 8.	Commented [A7]: The potential mercury release is
		(smelting) has releases to water		dependent on the mercury concentration in the ore (at mines) and concentrates (at smelters). Some ores and
		from wet gas cleaning and may		concentrates are low in mercury and do not result in
		also have releases to land. Direct		significant point source releases.
		leach technology may have		significant point source releases.
		releases to water and land (no		
		quantitative data available).		
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5.2.4	Copper extraction and	Mining and concentration phases	Parties may address	
	initial processing	likely have significant mercury	these releases as part of	
		releases to water and land, but data	cross-media measures	Commented [A8]: Ibid
		are lacking. Extraction phase	under article 8.	
		(smelting) has releases to water		
		from wet gas cleaning and may		
		also have releases to land. Direct		
		leach technology may have		
		releases to water and land (no		
		quantitative data available).		
5.2.5	Lead extraction and	Mining and concentration phases	Parties may address	
	initial processing	likely have significant mercury	these releases as part of	
		releases to water and land, but data	cross-media measures	Commented [A9]: Ibid
		are lacking. Extraction phase	under article 8.	Commented [AS]: Ibid
		(smelting) has releases to water		
		from wet gas cleaning and may		
		also have releases to land. Direct		
		leach technology may have		
		releases to water and land (no		
		guantitative data available).		
5.2.6	Gold extraction and	Significant releases to land (on-	Parties may address	4
5.2.0	initial processing by	site) and releases to water are-have	these releases as part of	
	methods other than	been reported.	cross-media measures	
	mercury	been reported.	under article 8.	
	amalgamation			
5.2.7	Aluminium extraction	In the step of producing the		-
5.Z.I		intermediate alumina from bauxite,		
	and initial processing	mercury releases to water may take		
		place; releases to land may take		
		place. No data are available on		
		releases from the final step from		
		alumina to aluminium.		4
5.2.8	Other non-ferrous	Mercury releases to land from		
	metals - extraction	silver mining <u>has have</u> been		
	and processing	reported. For other non-ferrous		
		metals extraction, releases to land		
		and water may likely take place for		
		some metal extraction but no data		
		are available.		
5.2.9	Primary ferrous metal	Mercury releases to land/waste are		

		wet scrubbers applied may take place.		
NEW	Processing of ferrous metals	Downstream processing of ferrous metals is expected to have only minor mMercury emissions/releases related to fuels use. Ferrous metals recycling is covered in 5.7.2.	This was proposed by experts. Need to look at whether this is covered by 5.2.9 and 5.7.2.	
NEW	Diamond mining	Anecdotal information on cleaning of diamonds with Mercury exist, but no other data are available.		
Source of	ategory: Production of othe	r minerals and materials with mercury	impurities	
5.3.1	Cement production	Mercury is concentrated in the filter dust recycling step and dust may therefore be bled regularly to the final cement product or to deposited waste/land (no data	Parties may address these releases as part of cross-media measures under article 8.	
5.3.2	Pulp and paper production	available on detailed fate). Releases to land and water are reported.		
5.3.3	Production of lime and light weight aggregates	Releases to land and water from lime production are reported.		
5.3.4	Other minerals and materials	Mercury releases from fertilizer production in some countries is known but published data are not available.		
Source ca	ategory: Intentional use of r	nercury in industrial processes		
5.4.1	Chlor-alkali production with mercury-technology	Releases to water, land and absorption in building materials reported; some facilities have significant unaccounted mercury amounts, meaning major parts of releases/emissions are not accounted for quantitatively.	Addressed by article 5.	
5.4.2	VCM production with mercury catalyst	Releases to water are reported. Releases to land may happen.	Addressed by article 5.	
5.4.3	Acetaldehyde production with mercury catalyst	Releases to water are reported	Addressed by article 5.	
5.4.4	Other production of chemicals and polymers with mercury	Releases to water and land from production of mercury-containing chemicals or with the use of mercury in the processes may take place. Releases may take place from	Sodium or potassium methylate and ethylate production is addressed by article 5.	
		alcoholates production.		
Course	to non a Manufasturia St			
Source ca	ategory: <u>Manufacturing of (</u> Thermometers with	Consumer products with intentional use Releases to land and or water are	e of mercury Releases from the	

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Commented [A10]: Really??! I have not heard that mercury would be used to clean diamonds. Can anyone provide details on this process? If not, remove this from the listing.

Commented [A11]: Please spell out acronyms upon first use.

Commented [A12]: Please be specific – here we are addressing the <u>manufacturing</u> of products containing mercury. We are not including disposal, which is covered under Article 11.

The next question to ask ourselves is, "Are the mercury releases to land and water from product manufacturing significant?" if not, these releases are not covered by Article 9.

		expected for other mercury-added products.			
5.5.2	Electrical switches and relays with mercury	Releases that may reach land and or water are reported.	Releases from the manufacturing of these products are not covered by article 4.		
5.5.3	Light sources with mercury	Releases that may reach land and or water are reported.	Releases from the manufacturing of these products are not covered by article 4.		
5.5.4	Batteries with mercury	Releases to land and water are reported	Releases from the manufacturing of these products are not covered by article 4.		
5.5.5	Polyurethane with mercury catalysts	Releases to land and or water are reported for production of some mercury-added products. <u>Releases</u> may perhaps take place from cleaning of polyurethane sports floors with mercury catalysts.	Manufacturing is addressed by article 5. Releases from the use are not addressed.		Commented [A13]: Isn't this sublist concerned with releases from the manufacturing of products containing mercury, not the use of these products? We should remove the second sentence pertaining to cleaning existing floors.
5.5.6	Biocides and pesticides with mercury	Releases to land and or water are reported for production of some mercury-added products .	Manufacturing will stop pursuant to article 4.		Commented [A14]:
5.5.7	Paints with mercury	Releases to land and or water are reported for production of some mercury-added products During application of paints, mercury may be released to water from cleaning	Manufacturing of biocidal paints will stop pursuant to article 4. Need to look at whether non-biocidal mercury-added paints are produced		Commented [A15]: See my comment for polyurethane flooring. We should not include the <u>use</u> of these products.
5.5.8	Pharmaceuticals for human and veterinary uses	of spillages and tools. Releases to land and or water are reported for production of some mercury-added products Mercury may be releases to water and land through excretion.	produced.		Commented [A16]:
5.5.9	Cosmetics and related products with mercury	Releases to land and or water are reported for production of some mercury-added products. Mercury in applied cosmetics will be washed out to water from households; potentially in overall	Releases from the manufacturing of these products are not covered by article 4.		Commented [A17]: Release from human excretion is already included in wastewater treatment effluent.
Source cat	tegory: Other intentional p	significant amounts.			Commented [A18]: Same as for pharmaceuticals, any mercury from cosmetic use in included in wastewater
5.6.1	Dental mercury-	Releases to water are reported	Parties may address	$\overline{)}$	treatment effluent.
	amalgam fillings	throughout the lifecycle of dental amalgam; from placement of new	these releases under article 4.		Commented [A19R18]: Assuming that there is a wastewater treatment facility?
		fillings, from drilling of old fillings and urine excretion while filings are in the mouth (in households).			Commented [A20]: Product use would generally result in releases from diffuse sources, and not be covered by Article 9.
5.6.2	Manometers and gauges with mercury	Releases to land and or water are reported for production of some	Releases from the manufacturing of these		Commented [A21]: Already included in wastewater treatment effluent
		mercury-added products (from breakage/spillages).	products are not covered by article 4.		Commented [A22]: This sublist deals with product use. If

5.6.3	Laboratory chemicals and equipment with	Releases to land and or water are reported for production of some		Commented [A23]: Move to previous sublist covering
	mercury	mercury-added products (from breakage/spillages).		production.
5.6.4	Mercury metal use in religious rituals and folklore medicine	Releases to land and water are expected from both manufacture, trade and use (no quantitative data available); ayurvedic medicine in India is a major example of		Commented [A24]: Would this not be a diffuse source Would it cause significant releases?
5.6.5	Miscellaneous product uses, mercury metal uses, and other sources	mercury use. Releases to land and or water are reported for production of some mercury-added products.		Commented [A25]: Move to previous sublist covering production.
NEW	Lighthouses	Releases to land and water may take place via washing of condensed evaporated mercury and spillages		
		cled metals ("secondary" metal produc	tion)	
5.7.1	Production of recycled mercury ("secondary production")	Releases to water and land/waste are reported		
5.7.2	Production of recycled ferrous metals (iron and steel)	Releases to water and land/waste are reported (no quantitative data)		Commented [A26]: Recycling of scrap steel results in mercury being mostly released as air emissions. However there may be some mercury captured by gas abatement
5.7.3	Production of other recycled metals			equipment, e.g. in scrubber sludges.
Source ca	tegory: Waste incineration			
5.8.1	Incineration of municipal/general waste	Releases to water from wet flue gas cleaning reported. Releases to land/waste of ash and flue gas cleaning residues.	Addressed by article 11.	
5.8.2	Incineration of hazardous waste	Expected to be like incineration of municipal waste above.	Addressed by article 11.	-
5.8.3	Incineration of medical waste	In many developing countries medical waste is burned at sub- optimal conditions and releases to land with solid residues are to be expected. For developed countries conditions are expected to be like described for municipal waste above.	Addressed by article 11.	
5.8.4	Sewage sludge incineration	Expected to be like incineration of municipal waste above.	Addressed by article 11.	
5.8.5	Informal waste burning	Significant amounts of mercury- added products are burned in the open in developing countries. Some of it may evade evaporation due to low temperatures and give rise to releases to land and water (leaching of remnants).	Diffuse sources	Commented [A27]: Therefore, not included in Article 9

	atagany Wasta dapasition (andfilling and waste water treatment		-	
5.9.1	Controlled landfills/deposits	andfilling and waste water treatment Releases to water (through leaching) are reported.	Addressed by article 11.		
5.9.2	Diffuse disposal under some control	This source category refers to use of residues under roads and similar, which may be considered as releases to land, with potential for slow releases to water.	Diffuse sources		Commented [A28]: Ibid.
5.9.3	Informal local disposal of industrial production waste	In such instances releases to land and water may be expected.	Diffuse sources		Commented [A29]: Ibid
5.9.4	Informal dumping of general waste	Informal dumping is in itself a release to land. It may also cause releases to water.	Diffuse sources		Commented [A30]: Ibid
5.9.5	Waste water system/treatment	Releases to water and land (sludge application as fertilizer) are reported.			
Source ca	ategory: Crematoria and cer				
5.10.1	Crematoria/cremation				
5.10.2	Cemeteries	Cemeteries are direct releases to land.	Diffuse sources		Commented [A31]: Cemeteries do not fit the defini a significant point source. Firstly, each cadaver with de

* Based on information aggregated for the UN Environment toolkit for identification and quantification of mercury releases. For additional details see https://www.unenvironment.org/explore-topics/chemicals-waste/what-we-do/mercury/mercury-inventory-toolkit

Structure and roadmap for the development of guidance on inventory

The following structure is proposed for the guidance on inventory, based on the existing guidance on the methodology for preparing inventories of emissions pursuant to Article 8.

Background

- Steps to establish a releases inventory
- Initial steps: identify relevant point source categories and facilities releasing or potentially releasing mercury
- Collection of release information from individual facilities, including source and amounts of release when feasible
- Development of a release inventory database
- Making the data publicly accessible and searchable
- UNEP Inventory Toolkit

The development of guidance following this structure will not take much time. The methodologies for release estimation are basically determined already, and therefore the remaining work is to establish required releases calculation factors for relevant release scenarios for release source categories that do not already have such factors established in existing inventory tools.

Regarding the roadmap, there was a suggestion that since there will be a two-year period between COP3 and COP4, a roadmap may include the development of draft guidance on BAT/BEP for releases, as required under Article 9, paragraph 7(a). In this manner, draft guidance on both BAT/BEP and inventories could be considered at COP-4. The group briefly discussed this proposal, and other suggestions were made such as requesting the expert group to review the technologies for controlling releases from

a significant point source. Firstly, each cadaver with dental amalgam is a potential source, so this would constitute a diffuse source in its totality. Secondly, these are not significant. wastewater treatment facilities or to discuss which source categories may require guidance on BAT/BEP.

The following roadmap is proposed, in order to develop a draft guidance on standardized and known methodologies for preparing inventories for the sources included in the list.

Proposed roadmap for the development of release inventory guidance

Secretariat to circulate a call to parties and other stakeholders to submit existing information on factors to calculate release from the identified source categories.	January 2020	
This will include contacts with relevant industrial associations and invitation for		
them to participate in the work of the group of technical experts.		
Secretariat to draft a general guidance for release inventories.	March 2020	
The group of technical experts to review the submissions and draft general	April 2020	
guidance. The group will advise the secretariat on further information collection.		
Draft general guidance to be posted on the Convention website for comments.	May 2020	
Further information collection	May-August	
	2020	
Secretariat to compile information including release calculation factors.	September 2020	
The group of technical experts to finalize the draft general guidance and review the	September 2020	
information including release calculation factors.		
The draft general guidance, release calculation factors and other relevant	November 2020	
information posted on the Convention website.		
Pilot use of the guidance by several parties to estimate mercury releases.	December 2020	
	- March 2021	
The group of technical experts to review the outcome from the pilot.	April 20202021	
Draft report of the intersessional work, including a proposed roadmap for the	May 2020 2021	
development of guidance on BAT/BEP, to be posted on the Convention website for		
comment		
Report to COP 4 finalized.	July <u>20202021</u>	

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Commented [A32]: From whom? On what?

Commented [A33]: Interesting.

Commented [A34]: Does this give enough time for the expert group review to be input into the draft report prior to posting?