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UPDATED PROJECTION REPORTING TEMPLATE

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Expert Panel on Projections

A new template (annex IV) for reporting projections




2023 Guidelines for reporting emissions and projections data under the Convention were adopted at the 42nd session (Geneva, 12-16 December 2022) of the Executive Body for the LRTAP Convention

Annex IV (template for projections) to the reporting Guidelines was adopted for application in 2024 and subsequent years.

However, **Parties were encouraged to provisionally use it for reporting in 2023.**

Changes in Annex IV include:

 A structure of the new template which now corresponds to the structure of Annex I (Emission reporting template)

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Table	Type	Description
2005	Reporting Template	National sectoral emissions for 2005 as the compliance base year
PROJ_BASE_YEAR	Reporting Template	National sectoral emissions for the base year used for projections reporting (projections should be consistent with the data in the last year of the time series in the inventory submission made in the same year, or one year previously)
2025_WM	Reporting Template	Projected national sectoral emissions (With Measures) for 2025
2025_WAM	Reporting Template	Projected national sectoral emissions (With Additional Measures) for 2025
2030_WM	Reporting Template	Projected national sectoral emissions (With Measures) for 2030
2030_WAM	Reporting Template	Projected national sectoral emissions (With Additional Measures) for 2030

Additional sheets for WM and WAM projections for 2035, 2040 and 2050 can be added if projections are available



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Pollutants to be reported

Only those pollutants that are required to be reported under the Gothenburg Protocol / NECD are mandatory and other pollutants can be provided where available.

Mandatory pollutants :

- SO_x (as SO₂), NO_x (as NO₂), NMVOC, PM_{2.5} and NH₃

Pollutants reported on a voluntary basis :

- PM₁₀, TSP, BC,
- priority heavy metals (Pb, Cd and Hg)
- other heavy metals
- POPs: : PCDD and PCDF, 4 PAH, HCB and PCBs

Activity data according to the nomenclature of reporting of pollutants

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Mandatory and non mandatory pollutants to be reported

Main Pollutants				Particulate Matter (PM10, TSP - voluntary reporting)			
NO _x (as NO ₂)	NM VOC	SO _x (as SO ₂)	NH ₃	PM _{2.5}	PM ₁₀	TSP	BC

Other (voluntary)	Priority Heavy Metals (voluntary reporting)			Additional Heavy Metals (voluntary reporting)					
CO	Pb	Cd	Hg	As	Cr	Cu	Ni	Se	Zn

POPs (voluntary reporting)							
	PAHs						
PCDD/ PCDF (dioxins/ furans)	benzo(a) pyrene	benzo(b) fluoranthene	benzo(k) fluoranthene	Indeno (1,2,3-cd) pyrene	Total 1-4	HCB	PCBs

In the Annex IV BC should be added in the list of pollutants to be reported on a voluntary basis (the template should be corrected)



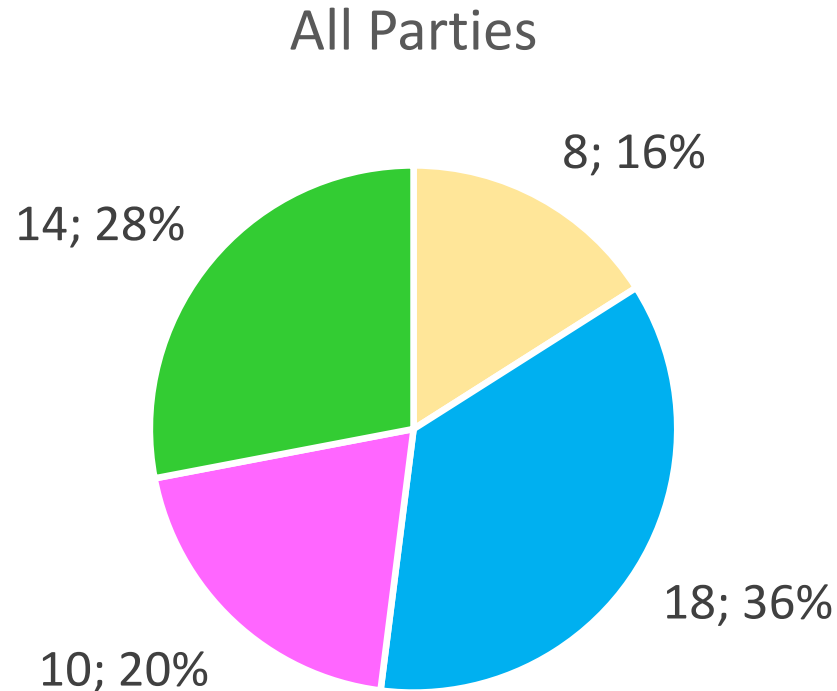
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Activity data to be reported

Activity data according to the nomenclature of reporting of pollutants

Liquid Fuels	Solid Fuels	Gaseous Fuels	Biomass	Other Fuels	Other activity (specified)	Other Activity Units
TJ NCV	TJ NCV	TJ NCV	TJ NCV	TJ NCV		

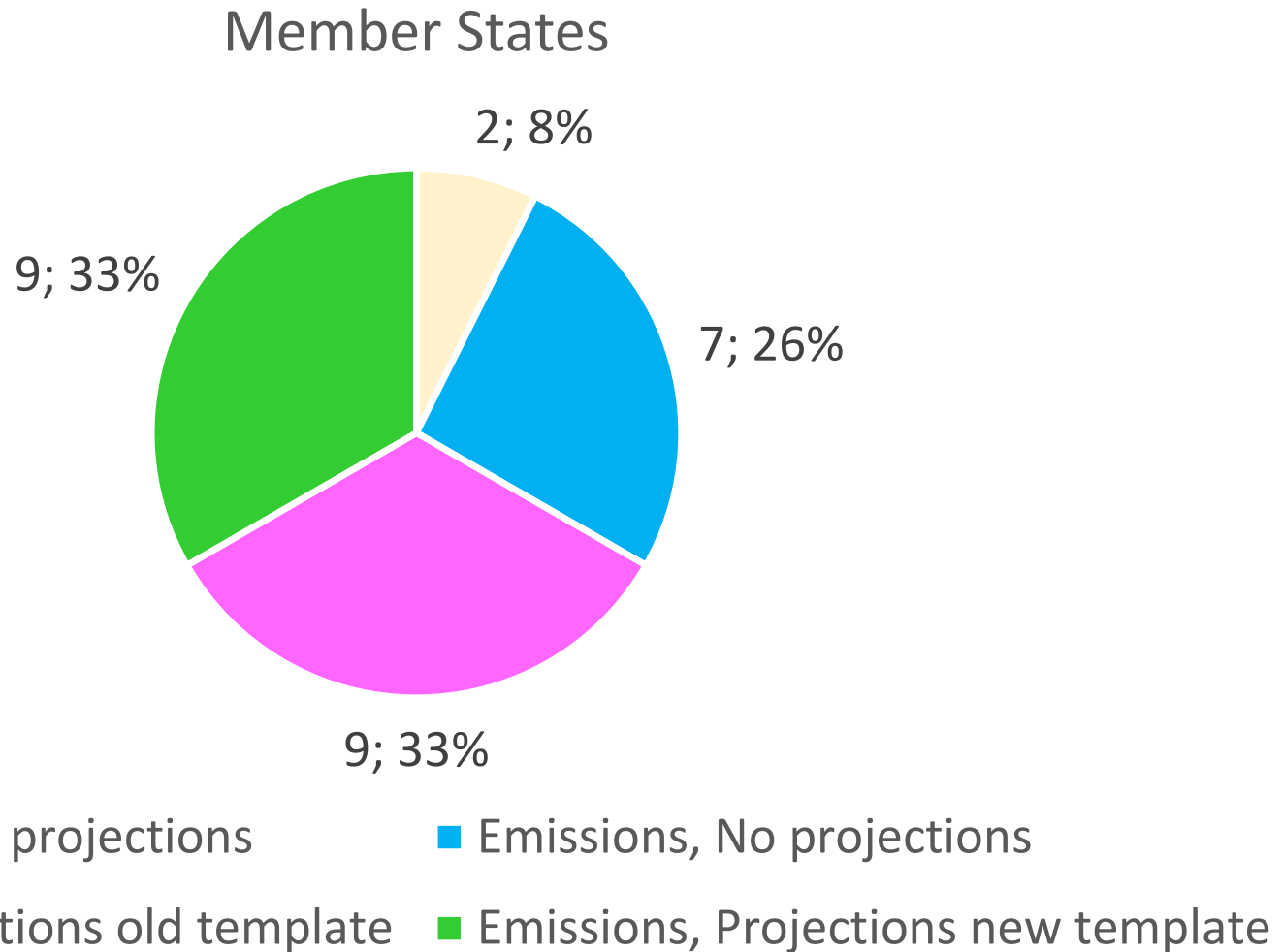
Use of the new template for 2023 submissions



- No Emissions, No projections
- Emissions, No projections
- Emissions, Projections old template
- Emissions, Projections new template

From the CEIP web site, accessed on April 14, 2023

Use of the new template for 2023 submissions



From the CEIP web site, accessed on April 14, 2023

Feedback from users



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Party A:

Using an exact copy of the inventory-NFR template for reporting projections was not a perfect solution

- (1) the projections cannot be prepared at the level of details of historical inventories due to lack of information on the development of the separate branches
- (2) no national forecasts go to the details of NFR subcategories but have more or less expert judgement type guesses, especially for IPPU sources. The expert judgements can be used as such or as input to projections models, but the basis of expert judgement remains
- (3) the requirement to prepare projections for other pollutants than those in the old projections reporting template has not been very clear (although in article 7) and not at the moment clearly and strongly enough communicated to inventory compilers in good time before submission deadlines.

Party B:

Party B has reported its projections using the new template. We found no problems using it. On the contrary, it was easy to transfer data using the same format as for the historical data sets

Feedback from users

Party C:

Party C has reported its projections using the new template. The detailed share of energy consumption is quite difficult to provide

Party D:

Use the old format, because the new one not obligatory in 2023.

Input of activity data by NFR categories requires additional time and is another reason why the new reporting template was not used but no technical difficulty is foreseen.
New reporting template ok for use.

Party E:

Use of the old template.

The old template was used because we have reported the same projections as in 2021 since new projections are not available.

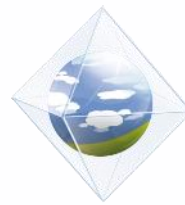
Other feedbacks from users?





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Next steps?



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Thank you for your attention

45. Parties to the 1999 Gothenburg Protocol and 2012 amended Gothenburg Protocol within the geographical scope of EMEP shall regularly update their projections and report every four years from 2015 onward their updated projections, for the years 2025 and 2030 and, where available, also for 2040 and 2050.

Parties to the other protocols are encouraged to regularly update their projections and report every four years from 2015.

46. Projected emissions for substances listed in paragraph 7 above and, where appropriate, BC, should be reported using the template contained in annex IV to these Guidelines. Parties should complete the tables at the requested level of aggregation. Where values for individual categories are not available, the notation keys defined in paragraph 12 above should be used.



Projections of emissions should be estimated and reported in the format set out in annex IV to these Guidelines.

Parties to the 1999 Gothenburg Protocol and 2012 amended Gothenburg Protocol within the geographical scope of EMEP have a mandatory obligation to report such projections under article 7 (1) (b).

Parties should provide a “with measures” and, where relevant, a “with additional measures” projection for each pollutant in line with the guidance given in the EMEP/EEA Guidebook.

Calculated projections should be consistent with the data in the last year of the time series in the inventory submission made in the same year, or one year previously. Methodologies and assumptions for projections should be transparent and should allow for an independent review of data.

For Parties within the European Union, reported projections should, as far as appropriate, be consistent with those compiled under the European Union Greenhouse Gas Emissions Reporting Regulation.



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Characteristics of the template

ADJUSTMENTS AND FLEXIBILITIES	Sum of approved adjustments from Annex VII and other flexibilities (negative value) (CLRTAP)	(c)	Including the estimated future impact of approved flexibilities is optional. Report adjustments as a negative value.
COMPLIANCE TOTAL (CLRTAP)	National total for compliance calculations and checks (CLRTAP)	(d)	The 'National Total for Compliance (CLRTAP)' includes the 'National Total (based on fuel sold)' (row 141) corrected for i) approved adjustments to national totals (row 151) (by adding the negative adjustment values) and, if applicable, ii) national totals based on fuel used (rows 143-149) (by adding the emissions based on fuel used and subtracting the corresponding emissions based on fuel sold).



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Characteristics of the template

ADJUSTMENTS AND FLEXIBILITIES	Sum of approved adjustments from Annex VII and other flexibilities (negative value) (NECD)	(c)	Including the estimated future impact of approved flexibilities is optional. Report adjustments as a negative value.
COMPLIANCE TOTAL (NECD)	National total for compliance calculations and checks (NECD)	(e)	The 'National Total for Compliance (NECD)' includes the 'National Total (based on fuel sold)' (row 141) corrected for i) approved adjustments and flexibilities to national totals (row 153) (by adding the negative adjustment values) and, if applicable, ii) national totals based on fuel used (rows 143-149) (by adding the emissions based on fuel used and subtracting the corresponding emissions based on fuel sold) as well as iii) the subtraction of sectors 3B + 3D for NO _x and NMVOC (only from 2020 onwards and for the year 2005 as a basis for emission reduction commitment calculations), according to the NEC Directive, Article 4/3(d).