

Progress in the 2022-2023 TFIAM work plan

Stefan Åström & Rob Maas 2022-09-14

Outline

- Conclusions & Recommendations from TFIAM 51
- Progress of work and plans for Sept. 2022 – Dec. 2023

TFIAM 51

TFIAM 51 – virtual event via Zoom: 6-8 April 2022 on the afternoons.
144 experts registered, Max participation: 95 unique participants

Subjects discussed:

- Review of the Gothenburg Protocol,
- Other elements of the TFIAM workplan 2022-2023,
 - Guidance on non-technical and structural measures,
 - Forum for international cooperation on air pollution
- Other results from assessment modelling,
 - Regional air quality plans,
 - Energy system interactions
 - Analysis of options,
 - Future scenarios

TFIAM 51

Conclusions

- Most of the questions asked by the Gothenburg Protocol review group can be answered, in some cases preliminary,
- Current emission reduction obligations would be insufficient to meet long-term targets of the Gothenburg Protocol to protect health and ecosystems even by 2050
 - More attention should be paid to spatial distribution of pollution,
 - More attention to emissions of NO_x from shipping,
- Sensitivity analysis of health impacts needed to ensure robust policy advice from models,
- A preliminary database of consistent emission factors for condensable particulate matter is now available, as well as preliminary impact assessment on PM concentration and exposure
- Global methane emission reductions will be needed in addition to European NO_x/NMVOC emission reductions to reduce ground-level ozone levels in Europe

TFIAM 51

Recommendations for further work

- For the scenarios developed, make country data available to enable analysis by national experts,
- Given abundance of uncertainties, further work on sensitivity analysis should be prioritised,
 - Guidance on non-technical and structural measures,
 - Support the Forum for international cooperation on air pollution

Issues raised after TFIAM 51

- Can we focus on reducing uncertainty in soil NO_x and NMVOC emissions and their role in ecosystem and health impact assessments

Progress of work plan

TFIAM is involved in many Air Convention work plan items – Science, 1 of 2

Theme : Improving tools to assess air pollution and its effects in the UNECE region

Subtheme: Monitoring and modelling tools

- 1.1.1.27 – Evidence on health outcomes of exposure to air pollution

Subtheme: Integrated Assessment Tools

- 1.1.3.1 – Scenario assessment for the GP* review and pot. revision
- 1.1.3.2 – Scenario development for the pot. revision of the GP
- 1.1.3.3 – Assessing observed trends in air pollution at the various scales (main responsibility: TFMM)
- 1.1.3.5 – Evaluation of methane mitigation measures on regional ozone (main responsibility: TFMM)

TFIAM is involved in many Air Convention work plan items – Science, 2 of 2

Theme : Improving tools to assess air pollution and its effects in the UNECE region

Subtheme: Linking the scales

- 1.1.4.1 – EPCAC activities
- 1.1.4.2 – Global emission scenarios with regional and sectoral breakdown

Subtheme: Cooperation with other projects and bodies

- 1.3.1 – Cooperation with HELCOM and OSPAR
(main responsibility: EMEP MSC-WEST, & ICP Modelling and Mapping)

TFIAM is involved in many Air Convention work plan items - Policy





Theme : Exchange of information, review of protocols and strategies and policies






- 2.1.2 – Review sufficiency and effectiveness of the amended Gothenburg
- 2.1.5 – Demonstrate the costs of inaction on air pollution
- 2.1.6 – Promotion of multiscale modelling for effective measures
- 2.1.7 – Discuss implications of global and regional emissions scenarios

Theme: Development and promotion of guidance documents





- 2.2.3 – Guidance document on non-technical and structural measures
- 2.2.4 – Promotion of guidance documents




Progress of WP items as of September 2022

 = item finished  = item under progress  = item not started  = finance/action needed for initiation





WP item	Status	Progress indicator
<u>Monitoring and modelling results</u>		
1.1.1.27	Currently planning for a NIAM & TF Health webinar	
<u>Integrated assessment tools</u>		
1.1.3.1	Discussions initiated	
1.1.3.2	Scenarios finalised, see GPG progress report Annex II	
1.1.3.3	Observed trends, see Annex II	
1.1.3.5	Evaluation methane mitigation, see Annex II	








Progress of WP items as of September 2022

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WP item	Status	Progress indicator
<u>Linking the scales</u>		
1.1.4.1	EPCAC 4 – virtual webinar on the 16th November 2022	
1.1.4.2	Global emission scenarios with TFHTAP, first meeting: 4th of Nov. 2022	
<u>Cooperation with other projects and bodies</u>		
1.3.1	Cooperation Helcom & OSPAR, see Agenda item 7 (a)	

Progress of WP items as of September 2022

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WP item	Status	Progress indicator
<u>Exchange of information, review of protocols and strategies and policies</u>		
2.1.2	See GPG progress report	
2.1.5	Final COI report submitted on the 6th of september 2022	
2.1.6	Policy brief on multilevel governance, funding needed	 
2.1.7	Implication of global scenarios, first meeting: 4th of Nov. 2022	
<u>Cooperation with other projects and bodies</u>		
2.2.3	Guidance doc non tech measures	
2.2.4	Promotion of guidance documents	

TFIAM plan for Sept. 2022 – Dec. 2023

Meetings

- TFICAP (Oct. 2022) → TFIAM presentation
- EPCAC 4 (Nov. 2022),
- TFIAM 52 (April 2023) → **Chairs report including EPCAC 4 results**
- EPCAC 5 (date to be decided)

Other planned documents

- Draft Guidance document on non-technical and structural measures (informal outline at WGSR61; **1st official draft ready Sept. 2023**)
- *Informal scenario document together with HTAP (aspirational)*
- *Informal strategy document on multilevel governance on clean air in cities*
- *Draft 2024-2025 work plan*

Thank you for your attention, questions?

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Presentations and conclusions from all earlier TFIAM and EPCAC meetings found at:

https://previous.iiasa.ac.at/web/home/research/researchPrograms/air/policy/past_meetings.html