

# Co-operation with the TFIAM

Stefan Åström & Rob Maas 2022-10-07

# Outline

- Air Convention work plan items with TFTEI & TFIAM co-operation,
- Progress of work for these items,
- Other co-operations

# TFIAM & TFTEI joint 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: input provided to support the review
- 2.1.5 – Demonstrate the costs of inaction on air pollution
- 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>Exchange of information, review of protocols and strategies and policies</u>		
2.1.2	<b>See GPG progress report</b>	
2.1.5	Final COI report submitted on the 6th of september 2022	
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	

# Progress of work

**GPG review – see the report at:**

<https://unece.org/sites/default/files/2022-09/Main%20report%20on%20the%20GP%20review.pdf>

**COI report submitted to 42<sup>nd</sup> session of the Executive Body**

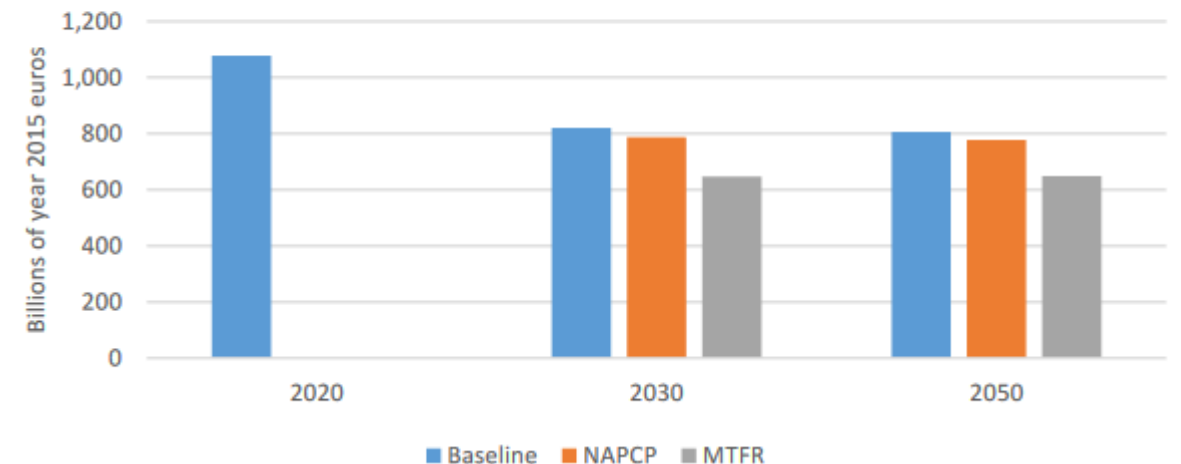
[https://unece.org/sites/default/files/2022-09/Advance%20version ECE EB.AIR 2022 7.pdf](https://unece.org/sites/default/files/2022-09/Advance%20version%20ECE%20EB.AIR.2022.7.pdf)

Table 1 shows the trends in these emission reductions by region.

Pollutant	Europe (EU27+UK+EFTA) 2000-2019	EECCA 2000-2019	CAN-US 2005-2019
Sulfur dioxide	-82 per cent	-22 per cent	CAN: -66 per cent US: -86 per cent
Nitrogen oxides	-48 per cent	- 1 per cent	CAN: -29 per cent US: -57 per cent
Ammonia	-12 per cent	+ 10 per cent	CAN: -3 per cent US: + 5 per cent
Volatile organic compounds	-43 per cent	+ 11 per cent	CAN: -27 per cent US: -23 per cent
PM2.5	-35 per cent	-15 per cent	CAN: -29 per cent US: -18 per cent

Figure 18

**Avoided damage in the European Union-27 due to additional measures beyond the baseline scenario (source - Amann et al., 2020)<sup>5</sup> (core VSL).**



# Progress of work

## **Further information needed for the review of the Gothenburg Protocol**

- Development of emission scenarios that include application of emission limit values for installations, vehicles, etc
- Implementation of new abatement options in GAINS
- Abatement options for emerging sources
  - ex: CCS installations;
  - NO<sub>x</sub> from industrial hydrogen application;
  - emission losses from using ammonia as a energy carrier

# Progress of work

## **Implication of global scenarios:**

Scoping discussions will be initiated on the 4<sup>th</sup> of November

## **Guidance document on non-technical measures**

Draft document will be delivered during summer 2023

## **Promotion of guidance documents**

Continuously ongoing efforts, good to document outreach

# Thank you for your attention, questions?

Stefan Åström, [stefan.astrom@anthesisgroup.com](mailto:stefan.astrom@anthesisgroup.com)

Rob Maas, [rob.maas@rivm.nl](mailto:rob.maas@rivm.nl)

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