

OVERVIEW

In May 2019, Germany published its first National Air Pollution Control Programme ([NAPCP 2019](#)) under the revised NEC directive (EU) 2016/2284. According to Article 6 (3) of the Directive, the NAPCP must be reported in an updated version at least every four years. In this context, Germany published a draft NAPCP on June 7th, 2023. Corresponding emission projections were reported to the central data repository of the European Environment Agency (EEA) on May 2nd, 2023 under the CLRTAP and the NEC directive, presenting both the “with measures” (WM) and the “with additional measures” (WAM) preliminary scenarios as defined in the draft NAPCP 2023 mentioned above. The second German National Air Pollution Control Programme ([NAPCP 2023](#)) was passed by the federal government and published in May 2024, consistent with the previously reported projections. According to Article 8 (6) of the EU Directive 2016/2284, these projections must be updated and reported every two years. Emission projections under the CLRTAP are fully aligned with the reporting presented in the context of the NEC directive.

As negotiations within the German government on the final NAPCP were still ongoing at the end of 2023, the IIR 2023 presents the projection details of the draft NAPCP from June 2023 consistent with the reported emission projections in 2023. Updated emission projections were reported on March 14th, 2025 under the ([CLRTAP](#)) and the ([NEC directive](#)), presenting both the “with measures” (WM) and the “with additional measures” (WAM) scenarios. The IIR 2025 projections chapter describes all assumptions and methodology of those emission projections.

Current projections are based on emission inventory submission 2024.

Based on the NEC & CLRTAP Submission 2024, these results can be summarized as follows:

Table 1: Overview results of projections 2024 (as part of NEC Submission 2024)

	NO _x	SO ₂	NM VOC	NH ₃	PM _{2.5}
NATIONAL TOTAL 2005 (Submission 2024)	1,478 kt	472 kt	1,167 kt	627 kt	133 kt
NATIONAL TOTAL 2022 (Submission 2024)	841 kt	255 kt	747 kt	512 kt	84 kt
Reduction Commitment 2020	-39 %	-21 %	-13 %	-5 %	-26 %
Reduction Reported 2022	-43 %	-46 %	-36 %	-18 %	-37 %
NEC-Compliance	Yes	Yes	Yes	Yes	Yes
Reduction Commitment 2030	-65 %	-58 %	-28 %	-29 %	-43 %
Reduction Commitment 2030	517 kt	198 kt	840 kt	445 kt	76 kt
Projected Emissions 2030 WM	-66 %	-71 %	-35 %	-31 %	-43 %
NEC-Compliance WM	Yes	Yes	Yes	Yes	Yes
Projected Emissions 2030 WAM	-66 %	-71 %	-35 %	-31 %	-44 %
NEC-Compliance WAM	Yes	Yes	Yes	Yes	Yes

Notes: This table does not include NO_x and NMVOC emissions from agriculture (NFR 3.B and 3.D) as they are excluded for compliance checking according to Article 4 (3) of the NEC directive. Projected emissions and historic data are based on submission 2024. All values have been rounded to integer numbers. The calculation for determining the reduction commitment took place with the exact values in 2005. The rounding can lead to slight deviations.

In addition, because of relevant recalculations in ammonia emissions of the agricultural sector (NFR 3) within the submission 2025 (see Chapter 8.1 - Recalculations), a second dataset was submitted containing only ammonia emission projections in the “with measures” (WM) scenario based on emission inventory submission 2025 under otherwise identical assumptions. Based on the NEC & CLRTAP Submission 2025, the re-calculated results for ammonia can be summarized as follows:

Table 2: Revised projections for NH₃ (ammonia), based on NEC Submission 2025

NATIONAL TOTAL 2005 (Submission 2025)	714 kt
NATIONAL TOTAL 2023 (Submission 2025)	569 kt
Reduction Commitment 2020	-5%
Reduction Reported 2023	-20%
NEC-Compliance	Yes
Reduction Commitment 2030	-29%
Reduction Commitment 2030	507 kt
Projected Emissions 2030 WM	-33%
NEC-Compliance WM	Yes

Results

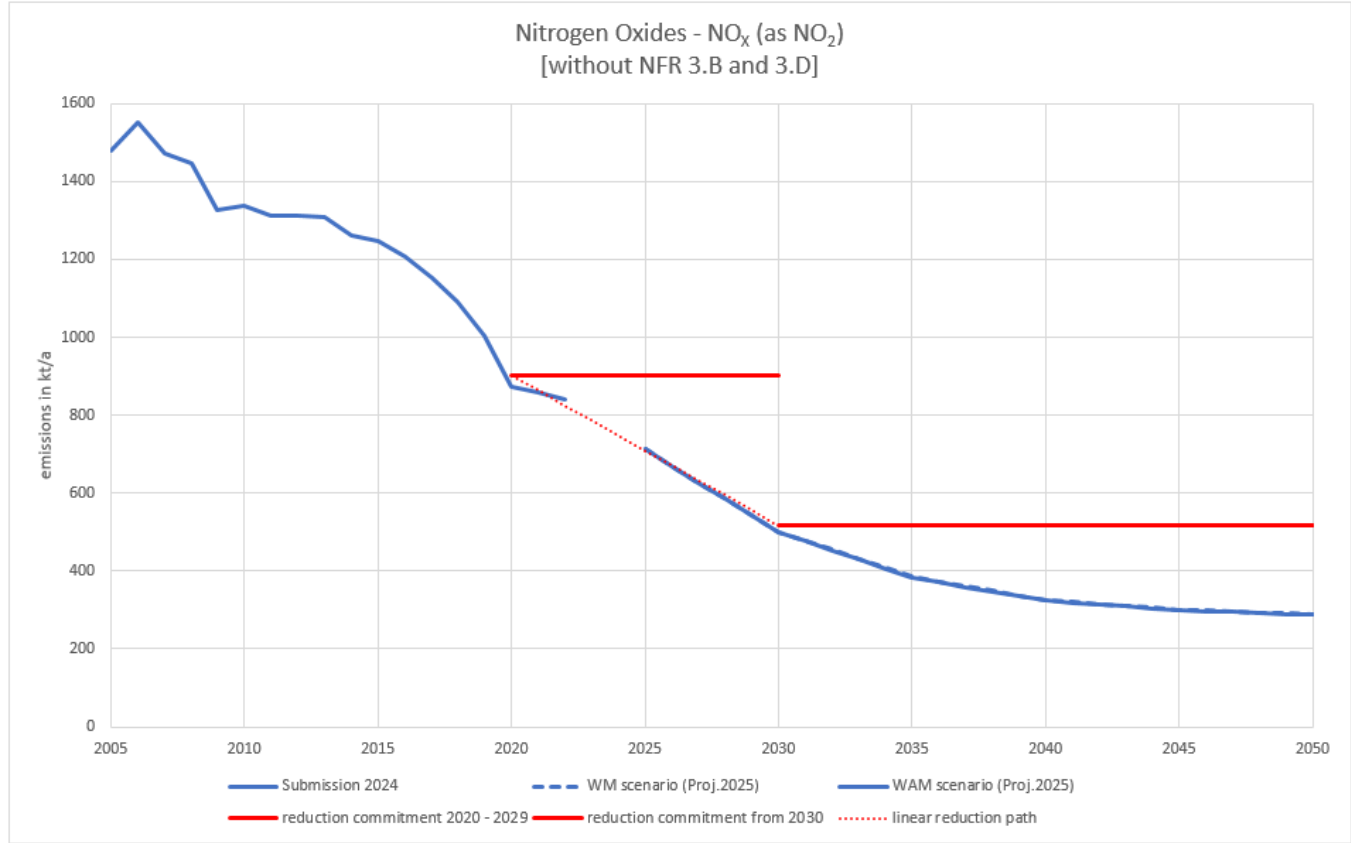
Modelling different scenarios in our database, we finally calculated the following numbers for Germany's emissions in 2030:

Table 3: Overview of projected 2030 emissions

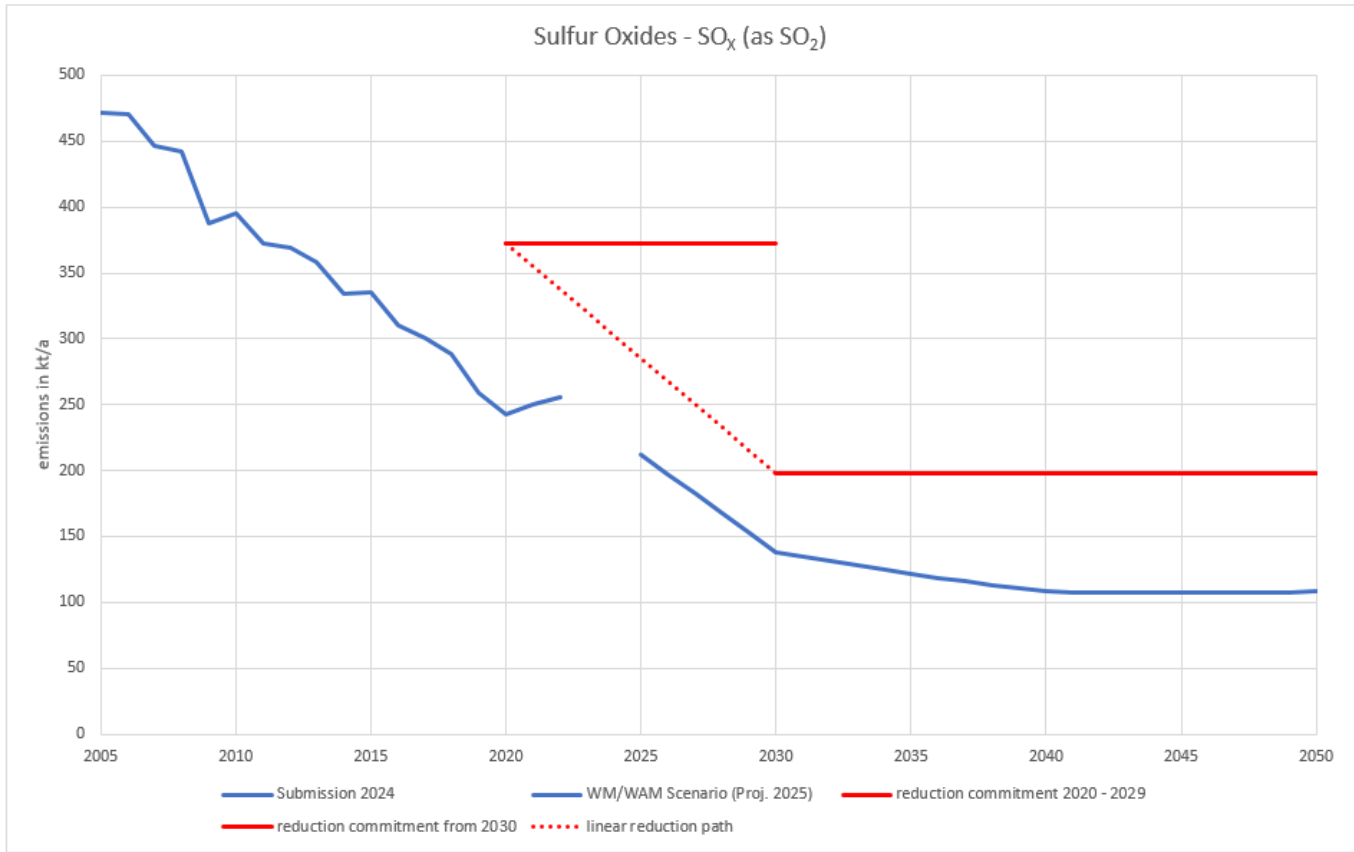
Projections for the year 2030	NO _x	SO ₂	NMVOC	NH ₃	PM _{2.5}
With measures	500.9 kt	138.4 kt	763.8 kt	434.2 kt	75.4 kt
Tightening of the emission limits of the Ecodesign Regulations (EU) 2015/1185 and (EU) 2015/1189					-0.8 kt
[Optional] Amendment of 13 th BImSchV					
With additional measures	500.9 kt	138.4 kt	763.8 kt	434.2 kt	74.6 kt

With these numbers, Germany will meet its reduction commitments for all pollutants in 2030 in both scenarios.

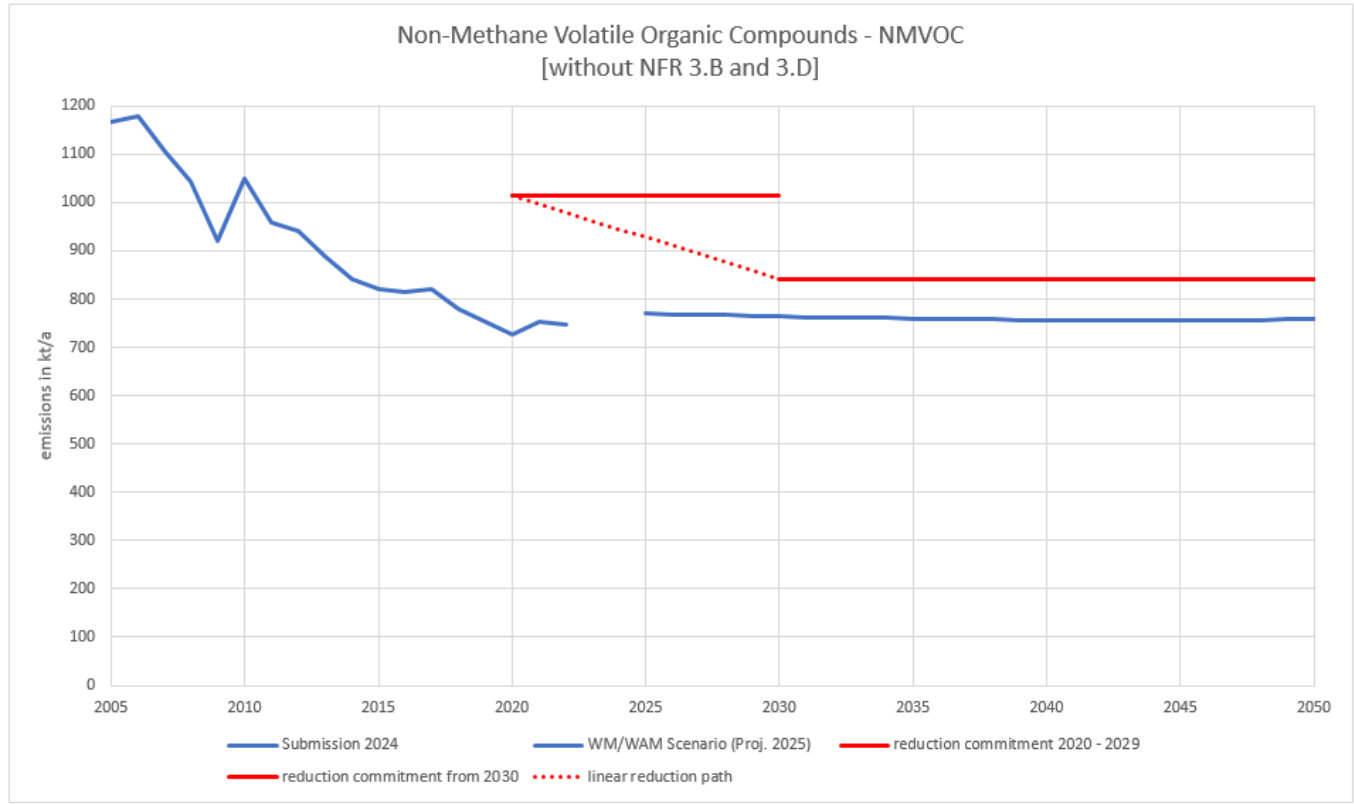
The following figures show the developments for each pollutant in the WM and WAM scenarios (WAM only for NO_x and PM_{2.5} as there are no differences between both scenarios for all other pollutants). In addition, the reduction commitments for 2020 to 2029 and from 2030 onwards as well as the indicative linear reduction path are shown. Please note that projected emissions were only calculated for the years 2025, 2030, 2035, 2040, 2045 and 2050. A linear reduction in the years between cannot be assumed, but is shown in the graphs just for illustrative reasons.



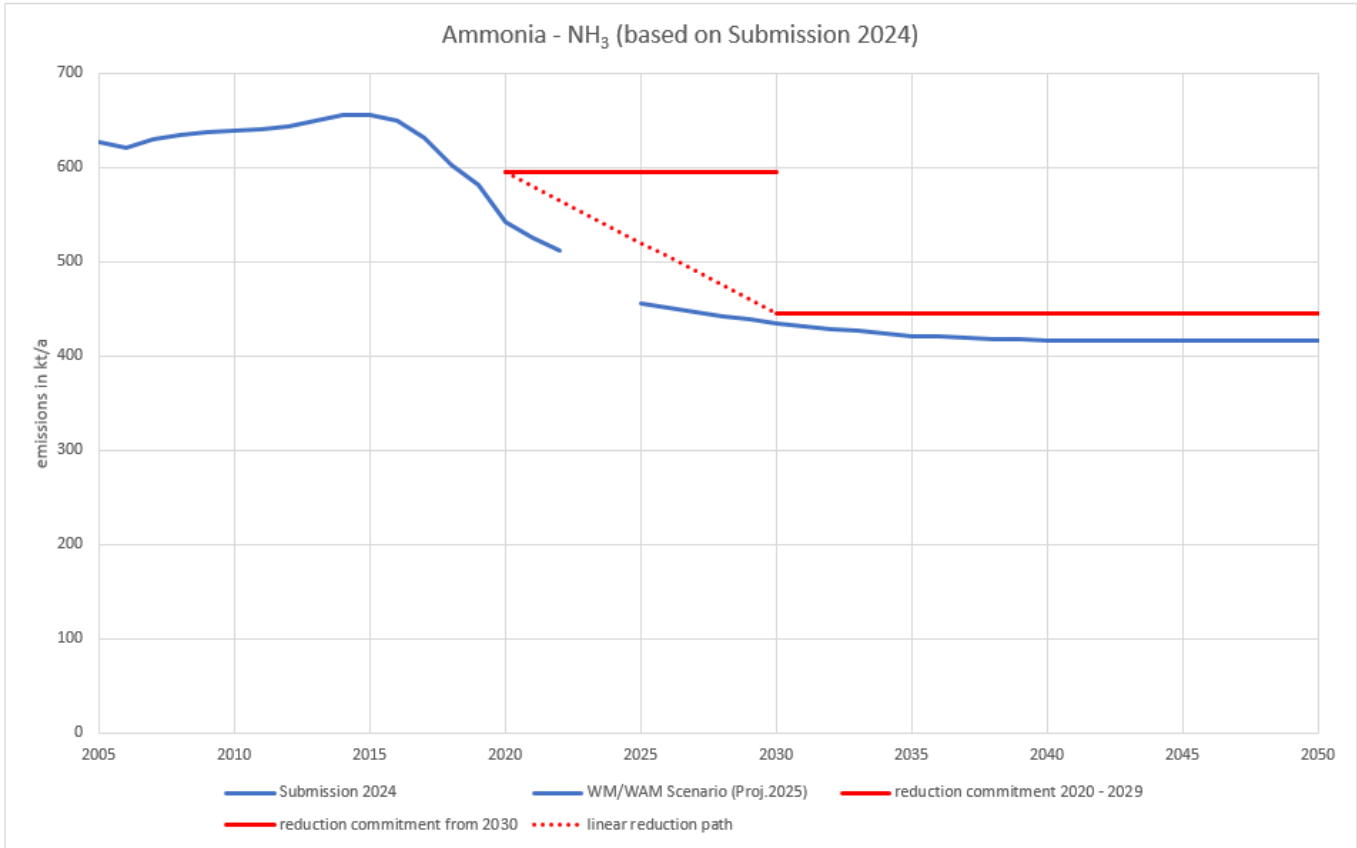
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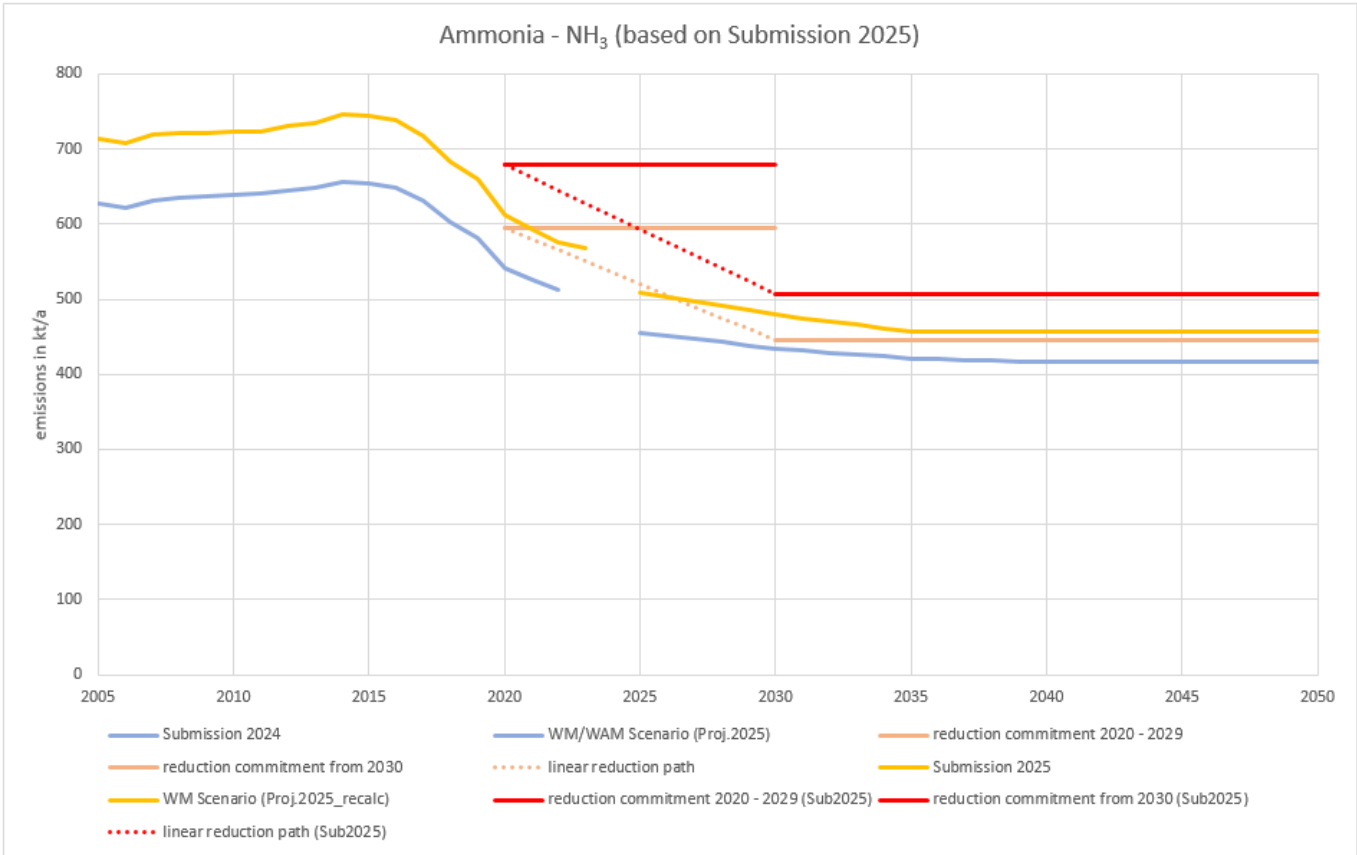
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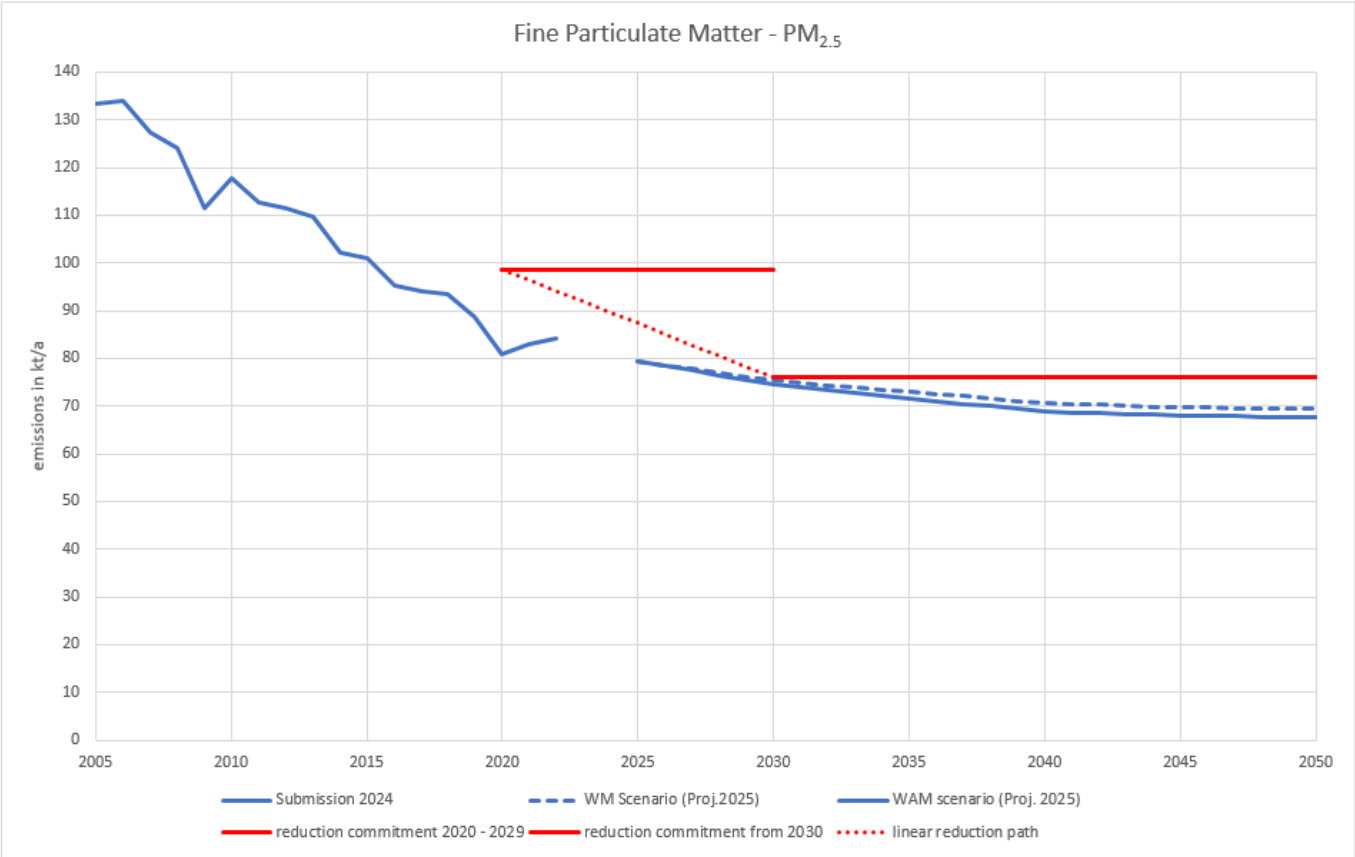
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