

# Chapter 9 - Projections

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 7<sup>th</sup>, 2023. Corresponding emission projections were reported to the central data repository of the European Environment Agency (EEA) on May 2<sup>nd</sup>, 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 14<sup>th</sup>, 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. 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 2024, these results can be summarized as follows:

	Unit	NO <sub>x</sub>	SO <sub>2</sub>	NM VOC	NH <sub>3</sub>	PM <sub>2.5</sub>
National Total 2005 (Submission 2024)	kt	1478	472	1167	627	133
National Total 2022 (Submission 2024)	kt	841	255	747	512	84
Reduction Commitment 2020	%	-39	-21	-13	-5	-26
Reduction Reported 2022	%	-43	-46	-36	-18	-37
<b>NEC-Compliance</b>		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Reduction Commitment 2030	%	-65	-58	-28	-29	-43
Reduction Commitment 2030	kt	517	198	840	445	76
Projected Emissions 2030 WM	%	-66	-71	-35	-31	-43
<b>NEC-Compliance WM</b>		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Projected Emissions 2030 WAM	%	-66	-71	-35	-31	-44
<b>NEC-Compliance WAM</b>		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

Notes: This table does not include NO<sub>x</sub> and NM VOC 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.

Based on the NEC & CLRTAP Submission 2025, the re-calculated results for ammonia can be summarized as follows:

	Unit	NH <sub>3</sub>
National Total 2005 (submission 2025)	kt	714
National Total 2023 (submission 2025)	kt	569
Reduction Commitment 2020	%	-5
Reduction Reported 2023	%	-20
<b>NEC-Compliance</b>		<b>Yes</b>
Reduction Commitment 2030	%	-29
Reduction Commitment 2030	kt	507
Projected Emissions 2030 WM	%	-33
<b>NEC-Compliance WM</b>		<b>Yes</b>

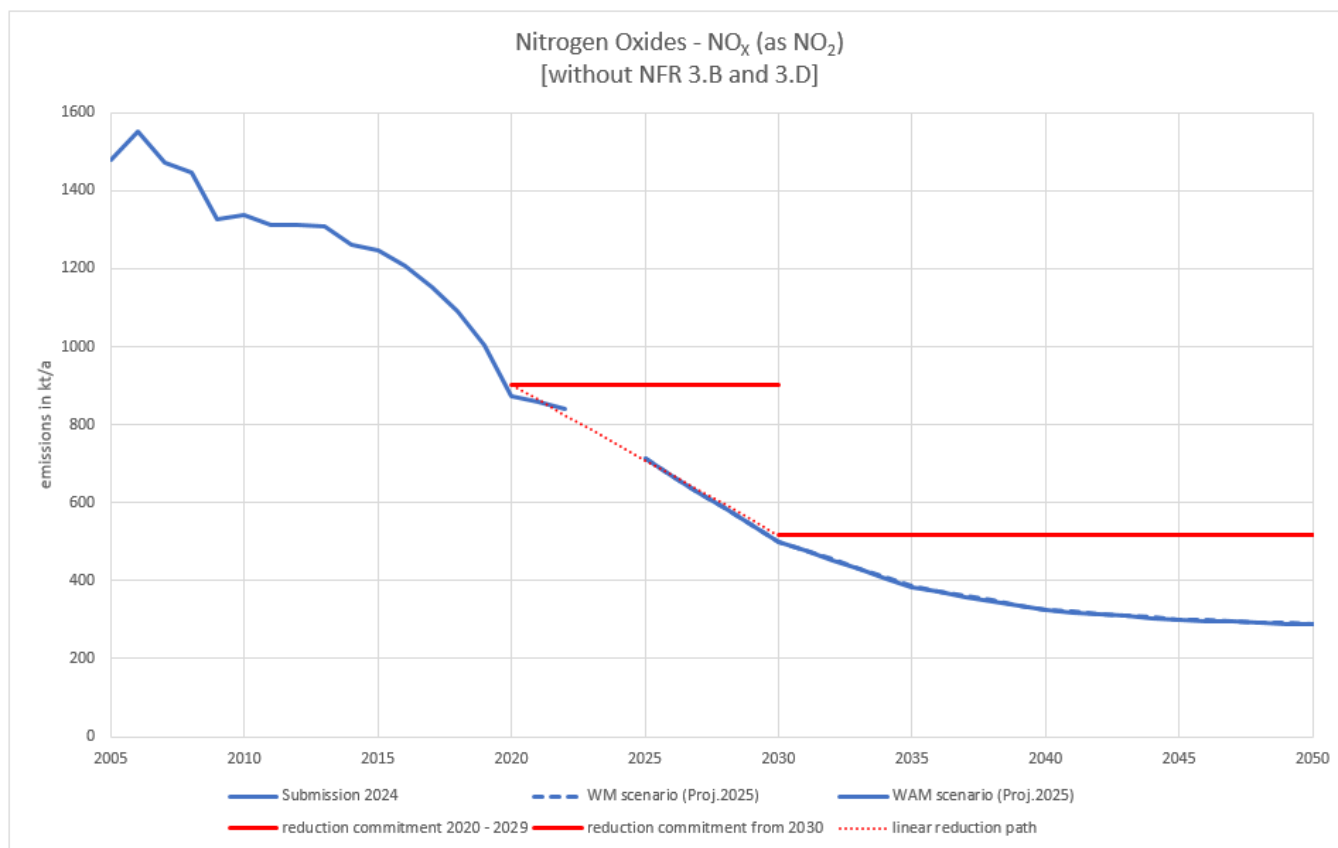
## Results

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

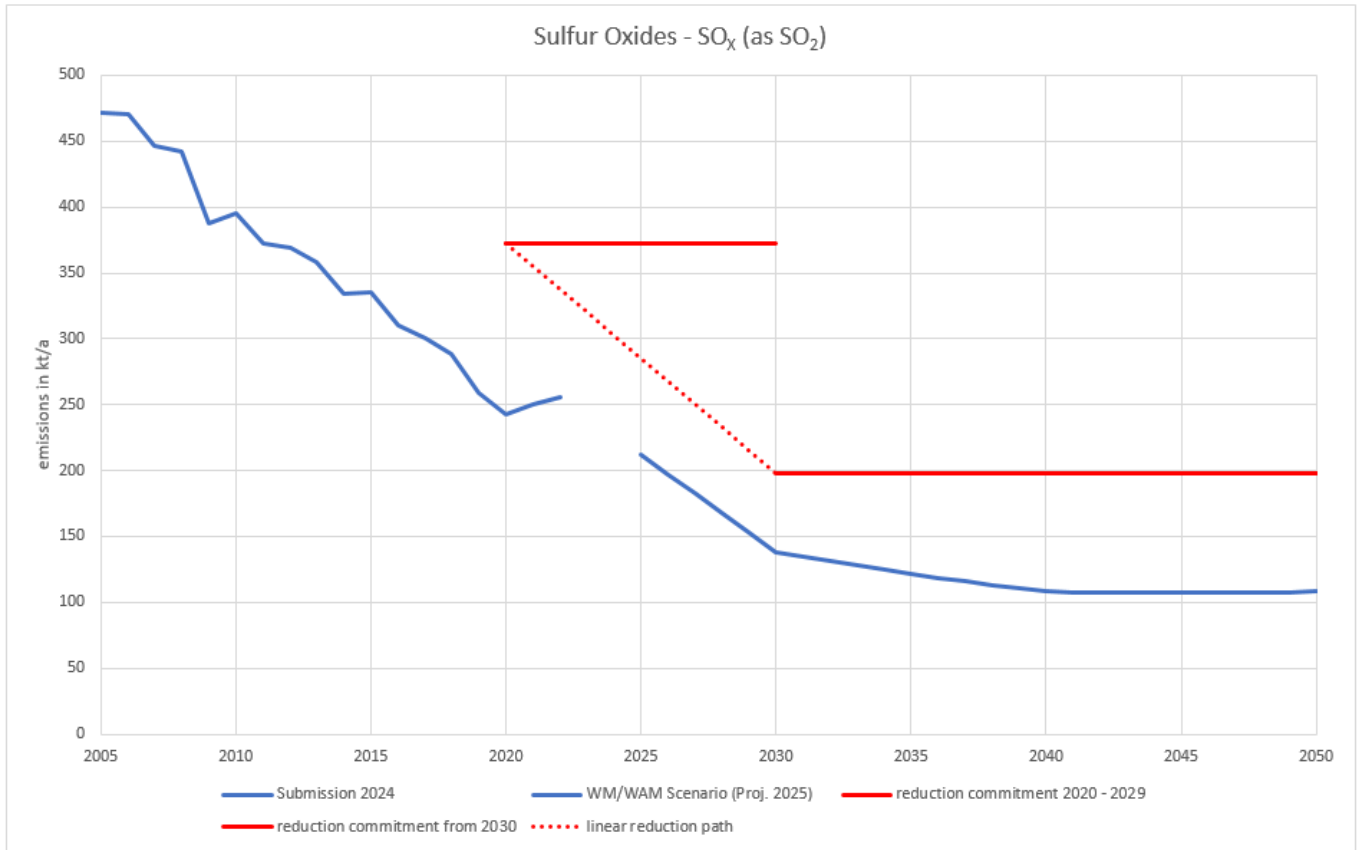
Projections for the year 2030	Unit	NO <sub>x</sub>	SO <sub>2</sub>	NM VOC	NH <sub>3</sub>	PM <sub>2.5</sub>
<b>With measures</b>	kt	<b>500.9</b>	<b>138.4</b>	<b>763.8</b>	<b>434.2</b>	<b>75.4</b>
Tightening of the emission limits of the Ecodesign Regulations (EU) 2015/1185 and (EU) 2015/1189	kt					-0.8
[Optional] Amendment of 13 <sup>th</sup> BImSchV	kt					
<b>With additional measures</b>	kt	<b>500.9</b>	<b>138.4</b>	<b>763.8</b>	<b>434.2</b>	<b>74.6</b>

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

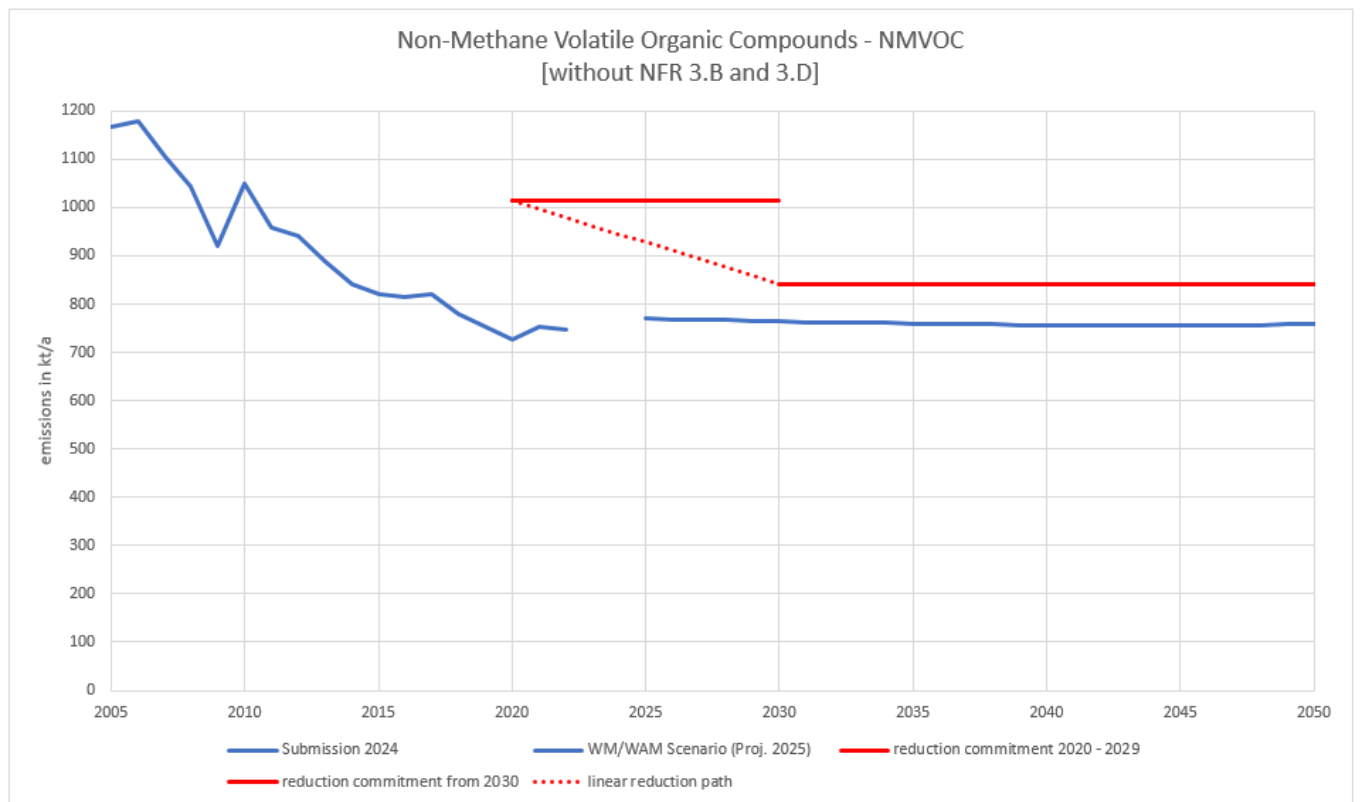
The following figures show the developments for each pollutant in the WM and WAM scenarios (WAM only for NO<sub>x</sub> and PM<sub>2.5</sub> as there are no differences between both scenarios for all other pollutants). In addition, the reduction commitments for 2020 to 2029 and from 2030 onwards as well 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.



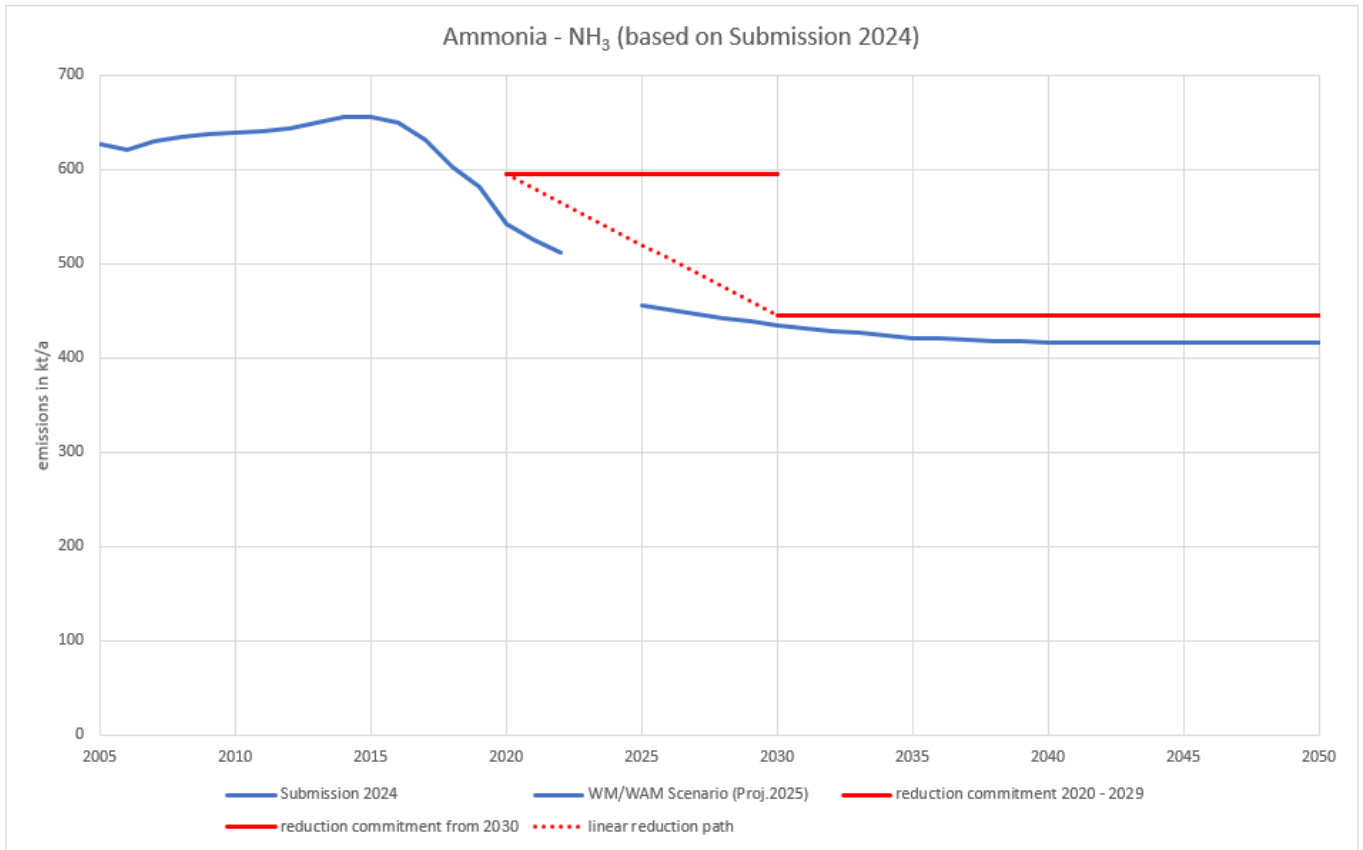
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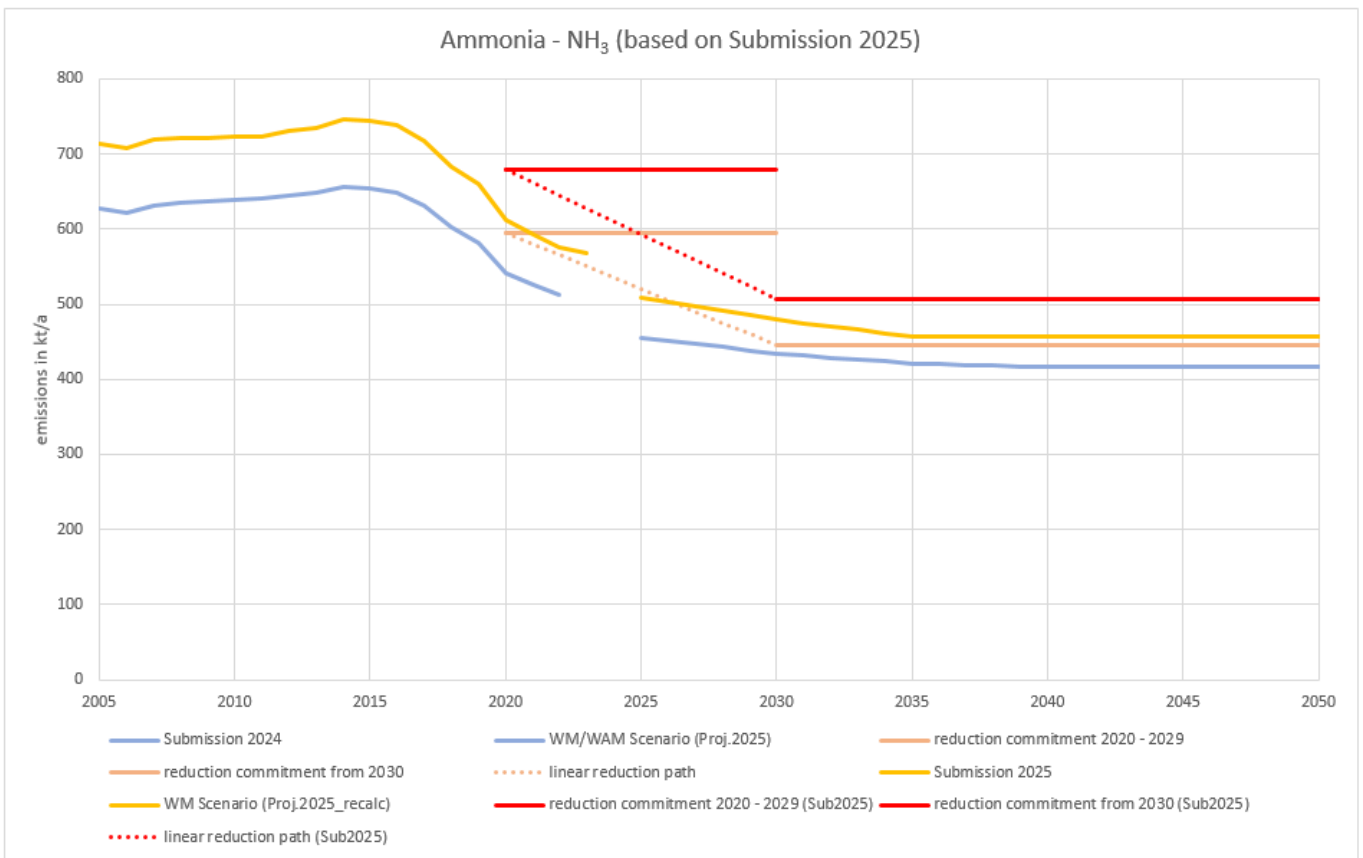
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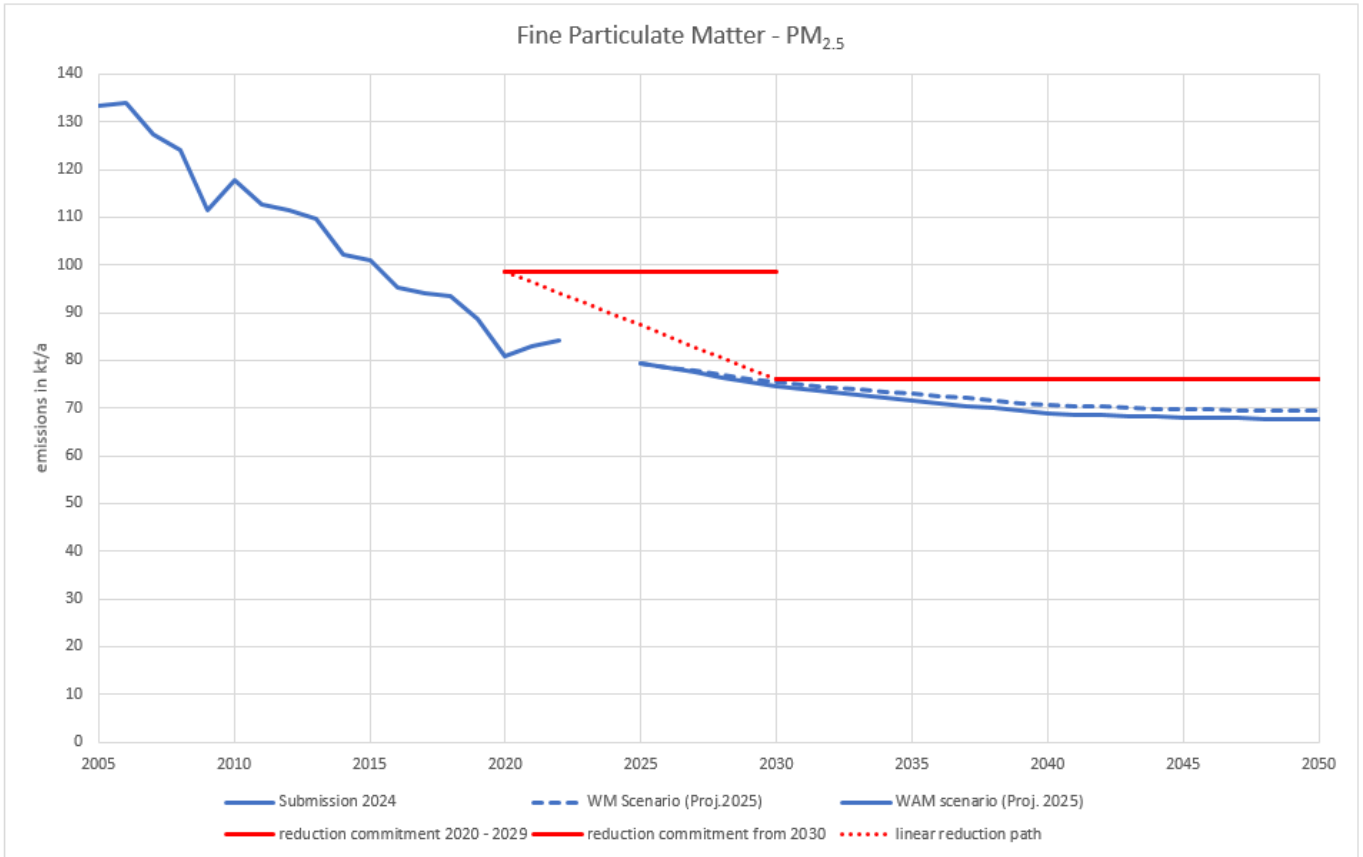
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