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Review of the 2023
Annual Reporting of a granted Adjustment
THE NETHERLANDS

Expert Review Team Summary Note
FINAL REPORT

Report title	Review of the 2023 annual Reporting of a granted Adjustment
Country	The Netherlands
Report reference	CEIP/Adjustment RR/2023/ THE NETHERLANDS
Date	05/09/2023
Version	Final Report

Expert Review Team

Role	Sectors	Name	Country
Adjustment lead reviewer	All	Kristina Saarinen	Finland
Primary expert reviewer	Agriculture 3B1a	Hakam Al-Hanbali	Sweden
Secondary expert reviewer	Agriculture 3B1a	Etienne Mathias	France
Basic checks (Step 1 and 2)	N/A	Sabine Schindlbacher	CEIP

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1 Introduction

1. As mandated by Executive Body decision 2012/12, applications for adjustments submitted by Parties are subject to expert review. Technical coordination of and support for the 2023 review was provided by the Centre on Emission Inventories and Projections, represented by Ms. Sabine Schindlbacher. The members of the expert review team (ERT) were selected from the experts appointed to the Centre on Emission Inventories and Projections roster of experts by the Parties.
2. The review of adjustments approved prior to 2023 was performed in parallel with the stage 3 review. The ERT for the adjustment review was composed of one lead reviewer, Ms. Kristina Saarinen (Finland) and three sector experts Mr. Tim van der Zee (the Netherlands), Mr. Hakam Al-Hanbali (Sweden) and Mr. Etienne Mathias (France). Each application was reviewed by two independent sectoral experts during April, May and June 2023.
3. The Netherlands has submitted an adjustment for NMVOC emissions from NFR 3B1a (Manure management - Dairy cattle) originally approved in 2022. The adjustment has been justified with the explanation that these sources were unknown when the emission reduction commitments were set. The full adjustment review report of the adjustment application submitted in 2022 is available at <https://www.ceip.at/gothenburg-protocol/review-of-adjustments>. This document summarizes the outcome of the review performed in 2023.

2 Summary Information

Table 1: Summary Information on the Submitted Application

Reasons for adjustment application (Decision 2012/3, para 6)	New source for NMVOC emissions
Adjustment Application has been originally approved in	2022
Pollutant for which adjustment is applied for	NMVOC
Sector/Pollutant for which adjustment is applied for	NFR 3B1a (Manure management – Dairy cattle).
Year(s) for which inventory adjustment is applied	2005, 2020 and 2021
Date of the submission	15-02-2023
Date of the submission of supporting documentation	15-02-2023
Additional information was provided during the review in response to requests from the ERT	08-05-2023
The Netherlands does not comply with its NMVOC emission reduction commitments listed in Annex II of the Gothenburg Protocol	Yes
The Netherlands provided information on the impact of the adjustment to its emission inventory, and the extent to which it would reduce the current exceedance and possibly bring the Party into compliance with its emission reduction commitments for the years 2005, 2020-2021 for pollutant NMVOC	Yes

3 Summary of the assessment of the ERT

4. NMVOC emissions from NFR 3B1a (Manure Management – Dairy cattle)

The reviewers conducted an assessment of the adjustment of NMVOC emissions from NFR 3B1a (Manure Management – Dairy cattle) for the Netherlands, originally approved in 2022. The adjustment has been recalculated in 2023 and the corresponding values present very small changes compared to the latest approved version (2022). The Netherlands explained that this minor recalculation was due to an error found in the previous submission i.e., the weight of a product was given in kg dry matter instead of kg product. The emissions were estimated using the methodology previously approved by ERT.

The impact of the adjustment on the NMVOC emission inventories of the Netherlands for the years 2005 and 2020-2021 in ktonne is detailed in Table 2.

Table 2: Impact of adjustments on the NMVOC emission inventories of the Netherlands for the years 2005 and 2020-2021 in ktonnes.

	Unit	2005	2020	2021
ERC	% of 2005		8%	8%
ERC unadjusted	(kt)		251.54	251.54
NT for Compliance unadjusted	(kt)	273.42	269.94	277.21
Gap to ERC unadjusted	(%)		-7.3	-10.2
ERC adjusted	(kt)		229.24	229.24
Adjusted NT for Compliance	(kt)	249.18	226.32	234.19
Gap to ERC adjusted	(%)		1.3	-2.2
Impact of adjustment on NT for Compliance	(kt)	-24.24	-43.62	-43.02

4 Conclusions and Recommendations of the ERT

The reviewers concluded that there had been no change in the methodology that would alter the original approval of the adjustment application. The reviewers notes that the adjustment for 3B1a (Manure Management – Dairy cattle) approved in 2022 brings the Netherlands into compliance in 2020, however, not in 2021. To the question on the issue the Netherlands responded that they are aware of this and pointed to the potential to include other source categories from the 3B and 3D sector which would bring the Netherlands into compliance for 2022 as well. Without anticipating the results of a potential future review of a new adjustment application of the Netherlands the expert review team agrees that it also sees this potential. The expert review team recommends that the Netherlands submit a new adjustment application for additional source categories from the 3B and 3D sectors that can be reviewed in detail in 2024. Hence, it is recommended that **the current adjustment for NMVOC emissions from NFR 3B1a (Manure Management – Dairy cattle) continues to be accepted.**

5 Information Provided by the Party

5. Table 3 lists the information provided by the Party in its adjustment application. The information provided by the Netherlands can be downloaded from the CEIP website¹.

Table 3: Information Provided by the Party

Filename	Short description of content
NL_annex_iaa_2023_adj_application	MS Excel file with detailed data underlying the proposed adjustment applications for Manure Management (3B).
NL_Adjustment_summary_2023	MS Excel file with detailed data underlying the proposed adjustment application for NH3 emissions from 3Da2c (Other organic fertilisers applied to soils).
NL_Informative_Inventory_Report_2023.pdf	IIR 2023, pdf-document ; here especially: Chapter 12 - Adjustments.
NL_NFR_Report_2023_CEIP	Excel file.
NL_Declaration on consistent reporting of Approved Adjustments	General information.

6. The ERT found it necessary to ask the Party for further information. The information provided is described in Table 6 below.

Table 4: Additional Information Provided by the Party

Filename	Short description of content
Answers to questions sent by reviewers.	Excel file at "Cleverworkplace"- platform at Umweltbundesamt website.

¹ <https://www.ceip.at/gothenburg-protocol/review-of-adjustments>

References

Data submitted by Parties applying for an adjustment:

<https://www.ceip.at/gothenburg-protocol/review-of-adjustments>

https://webdab01.umweltbundesamt.at/cgi-bin/adj_v2.pl

Decision 2012/3 (ECE/EB.AIR/111/Add.1): Adjustments under the Gothenburg Protocol to emission reduction commitments or to inventories for the purposes of comparing total national emissions with them.

https://www.ceip.at/fileadmin/inhalte/ceip/4_adjustments/decisions/ece_eb.air_111_add.1_eng_decision_3.pdf

Decision 2012/4: Provisional Application of Amendment to the Protocol to Abate Acidification, Eutrophication and Ground-level Ozone

https://www.ceip.at/fileadmin/inhalte/ceip/4_adjustments/decisions/ece_eb.air_111_add.1_eng_decision_4.pdf

Decision 2012/12 (ECE/EB.AIR/113/Add.1): Guidance for adjustments under the 1999 Protocol to Abate Acidification, Eutrophication and Ground-level Ozone to emission reduction commitments or to inventories for the purposes of comparing total national emissions with them.

https://www.ceip.at/fileadmin/inhalte/ceip/4_adjustments/decisions/decision_2012_12.pdf

Decision 2014/1 (ECE/EB.Air/127/Add.1): Improving the guidance for adjustments under the 1999 Protocol to Abate Acidification, Eutrophication and Ground-level Ozone to emission reduction commitments or to inventories for the purposes of comparing total national emissions with them.

https://www.ceip.at/fileadmin/inhalte/ceip/4_adjustments/decisions/decision_2014_1.pdf

ECE/EB.AIR/125: 2014 Reporting Guidelines (ECE/EB.AIR/125) for Estimating and Reporting Emission Data under CLRTAP

https://www.ceip.at/fileadmin/inhalte/ceip/1_reporting_guidelines2014/ece.eb.air.125_advance_version_reporting_guidelines_2014.pdf

ECE/EB.AIR/130: Technical Guidance for Parties Making Adjustment Applications and for the Expert Review of Adjustment Applications, 14 April 2015

https://www.ceip.at/fileadmin/inhalte/ceip/4_adjustments/ece_eb_air_130_av_for_the_web.pdf

EMEP/EEA 2019: EMEP/EEA Air Pollutant Emission Inventory Guidebook 2019

<https://www.eea.europa.eu/publications/emep-eea-guidebook-2019>

The 1999 Gothenburg Protocol to Abate Acidification, Eutrophication and Ground-level Ozone

http://www.unece.org/env/lrtap/multi_h1.html

TFEIP 2022: Technical Guidance for Emissions Inventory Adjustments under the Amended Gothenburg Protocol: Inventory adjustments in the context of ERCs

<https://www.ceip.at/gothenburg-protocol/adjustments>