

Adjustment review under EMEP

Formal outcome of the 2020 review

16 Sept 2020, EMEP SB virtual meeting

Katarina Mareckova, Robert Wankmüller CEIP

Adjustments under the GP 1999

- ▶ Parties may apply to adjust their emission reduction commitments or inventory data in **extraordinary circumstances**, as defined in the EMEP Executive Body decisions 2012/3 and 2012/4 (ECE/EB.AIR/111/Add.1) and *amended by EB decision 2014/1*.
 - ▶ (a) **Emission source categories** are identified that were not accounted for at the time when the emission reduction commitments were set;
 - ▶ (b) **Emission factors** used to determine emissions levels for particular source categories for the year in which emissions reduction commitments are to be attained are significantly different than the emission factors applied to these categories when emission reduction commitments were set;
 - ▶ (c) **The methodologies** used for determining emissions from specific source categories have undergone significant changes between the time when emission reduction commitments were set and the year they are to be attained.



Adjustment review 2020

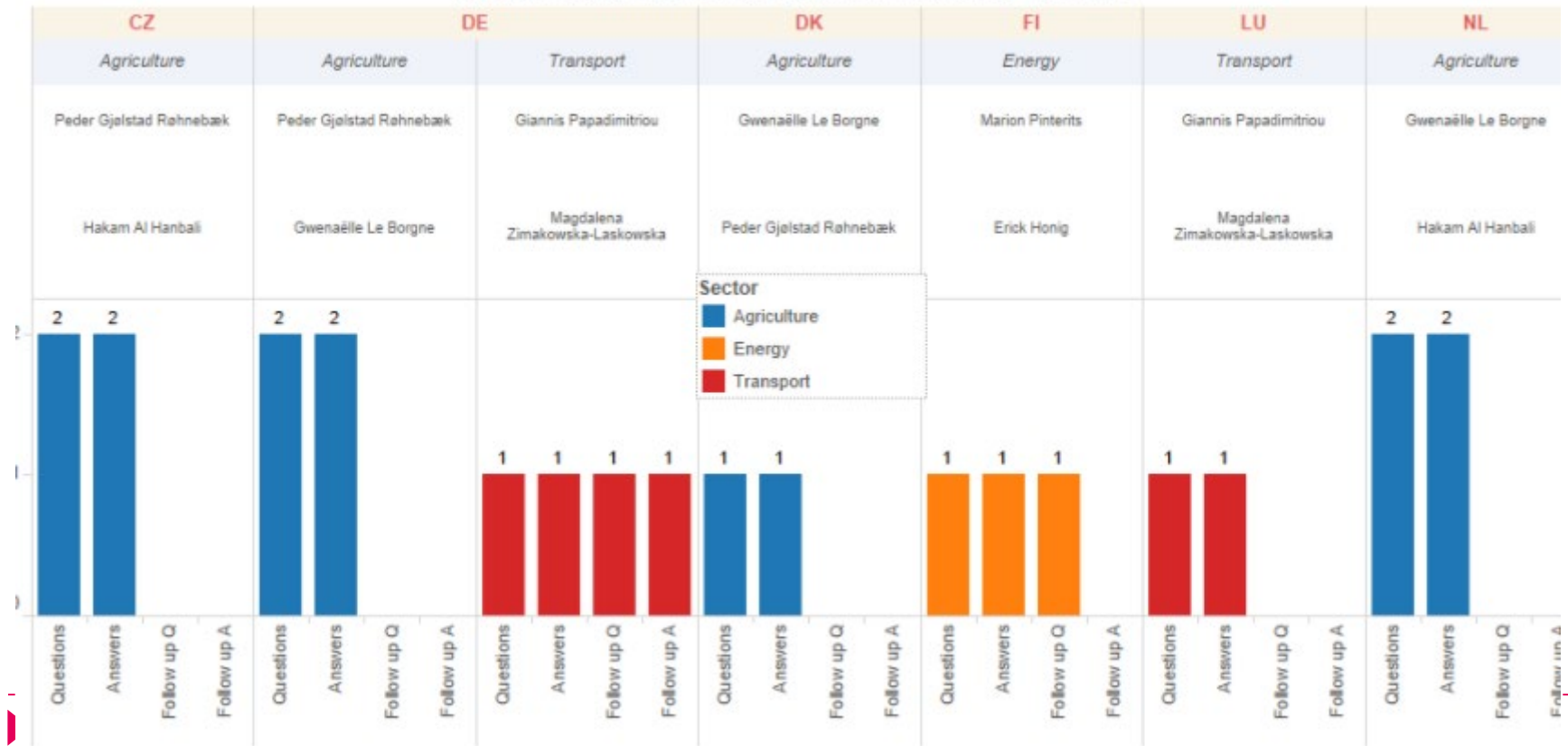
1. **CEIP did organise the review** by setting up the review teams, preparing data for reviewers and updated templates for the reviewers.
2. CEIP stores latest reported information and supports review teams via password protected wiki application
 - ▶ **1 new** submitted adjustment and
 - ▶ **10 Parties** (> 35 cases) adjustments approved prior 2020
3. The **2020 adjustment review** was performed parallel with the Stage 3 review.
 - a. Desk Review April – June
 - b. Harmonization with review process under EU/NECD
4. **7 sectoral experts plus 1 lead reviewer** assessed submitted adjustment and completed relevant documentation.



Adj. review Progress 2020 ^{CEIP} umweltbundesamt⁰

- All adj. reviews completed
- Status report provided to EMEP SB
- Web tool updated
- Country report (CZ) finalized

Adjustment Review Progress 2020 (status as of 17. June 2020 - 13:00, final)



Recommendations of ERT to EMEP SB (1)

Adjustments approved prior 2020

The adjustments reported by 10 countries **Belgium, Denmark, Finland, France, Germany, Hungary, Luxembourg, Netherlands, Spain and Great Britain** prior to 2020 refer to **NO_x, NMVOC and NH₃ emissions** for various NFR sectors (prevalingly Road transport and diverse Agriculture categories).

The ERT assessed the reported data and concluded that the **adjustments met all of the requirements laid out in EB decision 2012/12 and in the Technical Guidance**, and therefore recommended that the EMEP Steering Body **ACCEPT** all of the adjustments as reported by countries **Belgium, Denmark, Finland, France, Germany, Hungary, Luxembourg, The Netherlands, Spain and Great Britain**.

Detailed information on each reported adjustment may be found in **chapter V and Table 7** of the *Adjustment status report*.



Recommendations of ERT to EMEP SB (2)

NEW Adjustment application received in 2020

- ▶ The **NMVOC and NO_x** adjustment applications that had been **made by the Czechia** have been assessed.
- ▶ The ERT determined that additional information was needed and the Party provided the requested information during the review.
- ▶ For **NO_x** emissions, agriculture is only a small contributor to the national total. ERT concluded that CZ was in compliance with NO_x emissions also without adjustments and therefore there is no need to approve these.
- ▶ **NMVOC** adj have been approved
- ▶ **Country specific Review Report** was made available to the CZ and is published as informal documents to EMEP SB meeting

Recommendations of ERT to EMEP SB

Country	Sector	NFR	Pollutant	Years	ERT recommendation
Czechia	Agriculture	3.B	NMVOC	2010–2018	ACCEPT



Emission adjustments approved in 2020 *Thousands of tons (kt)*

Reference number	Pollutant	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total (BE)	NO_x	-62.508	-62.23	-63.357	-62.812	-61.449	-59.272	-	-	-
Total (BE)	NMVOC	-32.602	-	-	-	-	-	-	-	-
Total (DK)	NH₃	-7.547	-7.11	-6.994	-7.492	-7.911	-7.63	-8.248	-7.718	-7.534
Total (DK)	NMVOC	50.611	-50.525	-50.15	-50.508	-50.993	-50.767	-51.582	-52.227	-53.012
Total (FI)	NH₃	-2.378	-2.142	-2.063	-1.882	-1.82	-1.703	-1.674	-1.579	-1.476
Total (FR)	NO_x	-143.118	-148.599	-150.737	-158.652	-159.48	-158.42	-149.663	-	-
Total (DE)	NO_x	-413.709	-428.473	-423.229	-430.759	-421.354	-402.005	-372.551	-340.47	-293.222
Total (DE)	NMVOC	-326.775	-326.286	-329.004	-335.159	-338.32	-335.362	-332.53	-329.946	-324.314
Total (DE)	NH₃	-40.311	-50.205	-51.735	-59.579	-59.843	-59.762	-59.411	-58.644	-58.948
Total (HU)	NMVOC	-29.064	-28.749	-29.054	-29.163	-	-	-	-	-
Total (LU)	NO_x	-6.141	-6.431	-6.618	-6.701	-6.661	-6.496	-6.04	-5.325	-4.719
Total (LU)	NMVOC	-3.128	-3.016	-2.944	-3.025	-3.128	-3.198	-3.241	-3.289	-3.262
Total (NL)	NMVOC	-82.514	-81.294	-81.233	-75.363	-67.657	-79.123	-72.691	-71.864	-68.191
Total (NL)	NH₃	-	-	-	-	-2.108	-1.798	-1.961	-4.623	-2.245
Total (ES)	NO_x	-147.931	-137.2	-124.434	-	-	-	-	-	-
Total (GB)	NO_x	-102.568	-	-	-	-	-	-	-	-
NEW Total (CZ)	NMVOC	-19.865	-19.24	-19.149	-19.521	-19.548	-19.99	-20.12	-20.171	-20.472

10 countries prior 2020
 1 country new adj application
 >35 sector/pollutant cases

Information on CEIP website

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

EMEP Centre on Emission Inventories and Projections

GOTHENBURG PROTOCOL

Adjustments

Review of adjustments

Adjustment tool

Amended GP

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Adjustments 2020

One Party (**Czechia**) submitted a new adjustment application. NL, UK reported approved adjustments. The review of all Recommendations of the expert review team (ERT) to the status report for the EMEP SB meeting (September) and pr

Party	Application	Approved	Other
BELGIUM	NA	Annex_VII	Addit
CZECHIA	Application	NA	Addit
DENMARK	NA	Annex_VII	Addit
FINLAND	NA	Annex_VII	Addit
FRANCE	NA	Annex_VII	Addit
GERMANY	NA	Annex_VII	Addit
HUNGARY	NA	Annex_VII	Addit
LUXEMBOURG	NA	Annex_VII	Addit
NETHERLANDS	NA	Annex_VII	Addit
SPAIN	NA	Annex_VII	Additional_Information NA

Review of adjustment applications

The [technical review of adjustment applications](#) submitted under GP 1999 is a desk review which is conducted annually in April-June.

CEIP supports the reviewers by managing the review process overall, including the provision of Party information to the reviewers. CEIP also acts as an intermediary between the Party and the reviewers, should there be points which require clarification during the review. **A lead reviewer** co-ordinates the work of the team to ensure that a consistent approach is taken across all Parties / years/ pollutants/ source categories. All submitted adjustments are checked by **two independent reviewers**. All adjustments that are reported in requested formats are imported into the [tool developed by CEIP](#).

[Adjustments 2020](#)

Reporting of approved adjustments

Select country: **ALL** [BE](#) [CZ](#) [DE](#) [DK](#) [ES](#) [FI](#) [FR](#) [GB](#) [HU](#) [LU](#) [NL](#)

Select submission year: **ALL** [2014](#) [2015](#) [2016](#) [2017](#) [2018](#) [2019](#) [2020](#)

Select pollutant: **ALL** [NH3](#) [NMVOC](#) [NOx](#)



Next steps / Questions

- ▶ Results of the review are published in the *Adjustment Status report to EMEP SB* (ECE/EB.AIR/GE.1/2020/10–ECE/EB.AIR/WG.1/2020/21) and also at CEIP website http://www.ceip.at/adjustments_gp/adj_country_data/

 - ▶ Adjustment review 2021
 - ▶ extended review or standard one?
 - ▶ cooperation/ harmonization with review performed under NECD should continue....

 - ▶ May/should Parties apply for adjustment related to GPI999 also after 2021
 - ▶ should review of adj. continue also after 2021 ?
 - ▶ SB/EB decision will be needed

 - ▶ How do we proceed with revised GP
-



Thank you

EMEP Centre on Emission
Inventories and Projections



EMEP Centre on Emission Inventories and Projections

is responsible for coordinating the emission related work of EMEP and contributes to the scientific assessment of air pollution throughout the ECE region and to the evaluation of the implementation of the Protocols of the Convention.

More information:

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

Contact:

Katarina.mareckova@umweltbundesamt.at

emep.emissions@umweltbundesamt.at

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