

Chapter 11 - Adjustments and Emissions Reduction Commitments

Emission reduction targets 2010 and Germany's compliance

This section describes the 2010 emission reduction targets established by the original Gothenburg Protocol and the first NEC Directive. It transparently explains Germany's (non-)compliance and illustrates the use of adjustments. Later emission reduction targets for 2020 or 2030 are not covered here, since the assessment can only be made with 2020 data, available from 2022 onward.

100%"

	NO _x ,					SO _x ,					NMVOC					NH ₃ ,				
NATIONAL EMISSION CEILINGS																				
Gothenburg	1,081					550					995					550				
NEC	1,051					520					995					550				
INVENTORY DATA																				
	2010	...	2016	2017	2018	2010	...	2016	2017	2018	2010	...	2016	2017	2018	2010	...	2016	2017	2018
Inventory Total	1,724.7	...	1,587.6	1,533.7	1,422.4	455.9	...	323.1	312.9	299.4	1,390.1	...	1,166.3	1,170.4	1,145.2	642.1	...	677.0	667.3	638.1
minus 11.B - Forest fires	0.06	...	0.03	0.05	0.29	0.01	...	0.01	0.01	0.07	0.19	...	0.11	0.15	0.91	0.02	...	0.01	0.01	0.08
minus 1.A.3.a i - Cruise	105.6	...	119.2	131.9	136.3	6.00	...	6.51	7.17	7.38	1.50	...	1.48	1.65	1.75	1.22	...	1.33	1.46	1.50
minus 1.A.3.a ii - Cruise	7.63	...	7.47	7.25	7.08	0.42	...	0.39	0.37	0.38	0.46	...	0.38	0.37	0.36	0.09	...	0.08	0.08	0.08
minus 1.A.3.d i	137.6	...	125.0	106.5	76.5	44.3	...	4.8	3.66	2.59	3.99	...	4.01	2.82	1.81	0.03	...	0.03	0.03	0.02
National Total for Reporting	1,473.9	...	1,335.9	1,288.1	1,202.3	405.2	...	311.4	301.7	289.0	1,384.0	...	1,160.3	1,165.4	1,140.3	640.8	...	675.5	665.7	636.4
EXCEEDANCES OF SET EMISSION CEILINGS																				
against NEC	422.9	...	284.9	237.1	151.3	no exceedance					389.0	...	165.3	170.4	145.3	90.8	...	125.5	115.7	86.4
against Gothenburg	392.9	...	254.9	207.1	121.3	no exceedance					389.0	...	165.3	170.4	145.3	90.8	...	125.5	115.7	86.4
ADJUSTMENTS																				
	NO _x ,					SO _x ,					NMVOC					NH ₃ ,				
	2010	...	2016	2017	2018	2010	...	2016	2017	2018	2010	...	2016	2017	2018	2010	...	2016	2017	2018
National Total for Reporting	1,473.9	...	1,335.9	1,288.1	1,202.3	405.2	...	311.4	301.7	289.0	1,384.0	...	1,160.3	1,165.4	1,140.3	640.8	...	675.5	665.7	636.4
minus DE-A: NO _x from 1.A.3.b]	-297.8	...	-244.3	-214.9	-174.6															
minus DE-B: NO _x and NMVOC from 3.B	-1.63	...	-1.56	-1.55	-1.52						-317.2	...	-322.8	-320.2	-316.5					
minus DE-C: NO _x and NMVOC from 3.D	-114.1	...	-126.5	-123.9	-116.9						-9.53	...	-9.69	-9.74	-7.82					
minus DE-D: NO _x & NH ₃ from 3.I - Storage of Energy crops	-0.16	...	-0.18	-0.18	-0.18											-3.04	...	-3.30	-3.27	-3.29

digested energy crops” for the first time, resulting in extra emissions of about 65 kt per year. Given these changes, compliance will only be possible with additional measures, even when taking adjustments into account.

+ Adjustments in detail

Please refer to the following sub-sections for details on the emission adjustments applied by Germany: * [Adjustment DE-A for NO_x from 1.A.3.b Road Transport](#)] * [Adjustment DE-B for NO_x and NMVOC from 3.B Manure Management](#)] * [Adjustment DE-C for NO_x and NMVOC from 3.D Agricultural Soils](#)] * [Adjustment DE-D for NO_x & NH₃ from Energy Crops in 3.D and 3.I\]](#)

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: 2 : EMEP EB, 2014: EMEP Executive Body Decision 2014/1 - 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 URL: http://www.ceip.at/fileadmin/inhalte/emep/Adjustments/Decision_2014_1.pdf : 3 : CEIP, 2014a: Centre on Emission Inventories and Projections (CEIP): CEIP/Adjustment RR/2014/GERMANY: Review of the 2014 Adjustment Application by Germany, URL: https://webdab01.umweltbundesamt.at/download/adjustments2014/Adjustment_Review_Report_GERMANY_2014.pdf?cgiproxy_skip=1, 5 August 2014 : 4 : CEIP, 2014b: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2014/10: Review of adjustment applications 2014; URL: http://www.ceip.at/fileadmin/inhalte/emep/pdf/2015/ece.eb.air.ge.1.2014.10.edited.ae_formatting_accepted.ko.pdf, 5 August 2014 : 5 : CEIP, 2015a: Centre on Emission Inventories and Projections (CEIP): CEIP/Adjustment RR/2015/Germany: Review of the 2015 Adjustment Application by Germany, URL: https://webdab01.umweltbundesamt.at/download/adjustments2015/Germany2015-adj.pdf?cgiproxy_skip=1, September 2015 : 6 : CEIP, 2015b: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2015/10–ECE/EB.AIR/WG.1/2015/13: Review of adjustment applications 2015; URL: http://www.ceip.at/fileadmin/inhalte/emep/Adjustments/ece.eb.air.ge.1.2015.10_ece.eb.air.wg.1.2015.13.AV.pdf, 6 July 2015 : 7 : CEIP, 2016a: Centre on Emission Inventories and Projections (CEIP): Review of the 2016 Adjustment Application by Germany, URL: https://webdab01.umweltbundesamt.at/download/adjustments2016/Germany2016-adj.pdf?cgiproxy_skip=1, 2016 : 8 : CEIP, 2016b: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2016/10–ECE/EB.AIR/WG.1/2016/18: Review of adjustment applications 2016; URL: https://www.ceip.at/fileadmin/inhalte/emep/pdf/2016/ECE_EB.AIR_GE.1_2016_10_E.pdf, 2016 : 9 : CEIP, 2017a: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2017/10–ECE/EB.AIR/WG.1/2017/20: Review of adjustment applications 2017; URL: https://www.ceip.at/fileadmin/inhalte/emep/pdf/2017/Advance_ece_eb_air_ge_1_2017_10_ece_eb_air_wg_1_2017.pdf, 2017 : 10 : CEIP, 2018a: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2018/10–ECE/EB.AIR/WG.1/2018/21: Review of adjustment applications 2018; URL: https://www.ceip.at/fileadmin/inhalte/emep/pdf/2018/ADJ_ece.eb.air.ge.1.2018.10-ece.eb.air.wg.1.2018.21_advance.pdf, 2018 : 11 : CEIP, 2019a: Centre on Emission Inventories and Projections (CEIP): ECE/EB.AIR/GE.1/2019/10–ECE/EB.AIR/WG.1/2019/22: Review of adjustment applications 2019; URL: https://www.ceip.at/fileadmin/inhalte/emep/pdf/2019/ECE_EB.AIR_GE.1_2019_10-1909789E.pdf, 2019
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