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**Annual compilation and accounting report for Annex B  
Parties under the Kyoto Protocol for 2020**

**Note by the secretariat**

**Addendum**

**Compilation and accounting information by Party**

*Summary*

This document contains detailed information on the initial accounting parameters for the second commitment period under the Kyoto Protocol for Parties included in Annex I with commitments inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol. It also contains annual information on anthropogenic greenhouse gas emissions in 2017 and 2018 from sources listed in Annex A to the Kyoto Protocol; greenhouse gas emissions and removals in 2017 and 2018 from land use, land-use change and forestry activities under Article 3, paragraph 3, forest management under Article 3, paragraph 4, and any other elected activities under Article 3, paragraph 4, of the Kyoto Protocol; and holdings and transactions of Kyoto Protocol units as at 31 December 2018 and 31 December 2019. This document contains values from both the latest 2019 annual submissions and the 2020 annual submissions as reported by Parties as at 17 October 2020.

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## Abbreviations and acronyms

AAU	assigned amount unit
Annex A source	source category included in Annex A to the Kyoto Protocol
Annex B Party	Party included in Annex I <sup>1</sup> with commitments inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol
CER	certified emission reduction
CO <sub>2</sub> eq	carbon dioxide equivalent
ERU	emission reduction unit
EU	European Union
FMRL	forest management reference level
GHG	greenhouse gas
IE	included elsewhere
initial review report	report on the review of the report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol
ICER	long-term certified emission reduction
LULUCF	land use, land-use change and forestry
NA	not applicable
NE	not estimated
NO	not occurring
RMU	removal unit
tCER	temporary certified emission reduction

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<sup>1</sup> Defined in Article 1, para. 7, of the Kyoto Protocol.

## I. Introduction

1. Document FCCC/KP/CMP/2020/5 provides an overview of the information available as at 17 October 2020 on annual accounting parameters for the second commitment period under the Kyoto Protocol for Annex B Parties; transactions and holdings of Kyoto Protocol units reported in 2020; and GHG emissions for 2017 and 2018.
2. This document includes the following, more detailed, information, available as at 17 October 2020,<sup>2</sup> for individual Annex B Parties:
  - (a) Key initial accounting parameters for the second commitment period under the Kyoto Protocol;
  - (b) Total GHG emissions from the sources listed in Annex A to the Kyoto Protocol reported for 2017 and 2018, including indirect carbon dioxide emissions where reported;
  - (c) GHG emissions and removals in the base year, 2017 and 2018 from LULUCF activities under Article 3, paragraph 3, forest management under Article 3, paragraph 4, and any other elected activities under Article 3, paragraph 4, of the Kyoto Protocol;
  - (d) Transactions and holdings of Kyoto Protocol units as at 31 December 2018 and 31 December 2019.
3. The annual information submitted in 2020 and in the reports to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol will be recorded in the compilation and accounting database after the completion of the associated review processes and the resolution of any questions of implementation.
4. This document also contains relevant information reported in accordance with decision 2/CMP.8, paragraph 4, and decision 3/CMP.11, paragraph 14, and other information reported by Parties included in Annex I that do not have commitments inscribed in the third column of Annex B in the Doha Amendment (Japan, New Zealand and Russian Federation).
5. The information referred to in paragraphs 2 and 4 above is based on initial review reports and annual submissions of GHG inventories and accounting information submitted by Parties, which are available on the UNFCCC website.<sup>3</sup>

## II. Australia

6. Australia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 11 July 2009.
7. Tables 1–5 provide detailed information on Australia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 1

### Key initial accounting parameters under the Kyoto Protocol for Australia

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	566 786 410	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	99.5	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	4 511 619 826	t CO <sub>2</sub> eq

<sup>2</sup> The accounting parameters presented in this document are based on the final values available in the initial review reports published as at 17 October 2020.

<sup>3</sup> <https://unfccc.int/process/transparency-and-reporting/reporting-and-review-under-the-kyoto-protocol/second-commitment-period/initial-reports> and <https://unfccc.int/ghg-inventories-annex-i-parties/2020>.

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	-237 336 202	t CO <sub>2</sub> eq
Limitation on the additions to Australia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	117 214 453	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 148,163,361 t CO<sub>2</sub> eq.

Table 2  
**Australia's emissions and removals of greenhouse gases in 2017 and 2018**  
(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		554 126 561		556 612 265	558 047 220
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-3 278 256		-5 624 355	4 068 690
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-25 615 792		-6 771 268	-12 119 533
FMRL (t CO <sub>2</sub> eq/year)		4 700 000		4 700 000	4 700 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-3 540 508		-3 346 035	-3 346 035
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	31 979 519	5 608 387	31 641 783	406 772	509 683

Table 3  
**Australia's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	13 557 017	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	2 289 049	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>15 846 066</b>	<b>NO</b>	<b>NO</b>

Table 4  
Australia's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	9 388 078	NO	16 617 550	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	6 598 076	22 822	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>9 388 078</b>	<b>NO</b>	<b>23 215 626</b>	<b>22 822</b>	<b>NO</b>

Table 5  
Australia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	9 388 078	NO	9 609 556	22 822	NO
Total transactions	NO	9 388 078	NO	9 609 556	22 822	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	4 309 027	22 822	NO
External transactions	NO	NO	NO	2 239 996	NO	NO
Total transactions	NO	NO	NO	6 549 023	22 822	NO

### III. Austria

8. Austria met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 5 April 2008.

9. Tables 6–10 provide detailed information on Austria's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and

removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 6

**Key initial accounting parameters under the Kyoto Protocol for Austria**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	78 855 136	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	405 712 317	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Austria's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	22 079 438	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 7

**Austria's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		82 261 886		82 023 358	78 950 336
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-1 636 576		-1 637 133	-1 683 108
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-3 863 984		-3 894 800	-4 128 542
FMRL (t CO <sub>2</sub> eq/year)		-6 516 000		-6 516 000	-6 516 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		5 823 000		5 823 000	5 823 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 8

**Austria's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	2 272 701	NO	NO
Entity holding accounts	NO	NO	NO	119 126	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	175 258	NO	NO



<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>2 567 085</b>	<b>NO</b>	<b>NO</b>

Table 9  
Austria's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	2 340 627	NO	NO
Entity holding accounts	NO	NO	NO	89 475	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	244 121	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>2 674 223</b>	<b>NO</b>	<b>NO</b>

Table 10  
Austria's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Internal transactions		NO	NO			
External transactions	NO	NO	NO	1 967 669	NO	NO
Total transactions	NO	NO	NO	1 967 669	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	68 863	NO	NO
External transactions	NO	NO	NO	1 860 531	NO	NO
Total transactions	NO	NO	NO	1 929 394	NO	NO

## IV. Belarus

10. The eligibility of Belarus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established<sup>4</sup> as at 17 October 2020.

11. As at 17 October 2020, Belarus had not yet submitted its report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol or annual information on its GHG emissions and removals in 2017 and 2018 from LULUCF activities under Article 3, paragraphs 3–4, of the Kyoto Protocol.

12. Table 11 provides information on Belarus's annual GHG emissions from Annex A sources.

Table 11

### Belarus's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		93 959 644		91 112 502	91 992 607

*Note:* As at 17 October 2020, Belarus had not yet submitted annual information on its GHG emissions and removals in 2017 and 2018 from LULUCF activities under Article 3, paras. 3–4, of the Kyoto Protocol.

13. Belarus had not yet submitted standard electronic format tables for the second commitment period of the Kyoto Protocol as at 17 October 2020.

## V. Belgium

14. Belgium met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

15. Tables 12–16 provide detailed information on Belgium's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 12

### Key initial accounting parameters under the Kyoto Protocol for Belgium

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	147 811 094	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	584 228 513	t CO <sub>2</sub> eq

<sup>4</sup> See decision 11/CMP.1, annex, paras. 2–3, in conjunction with decision 1/CMP. 8; decision 9/CMP.1, annex, paras. 21–22; and decision 3/CMP.1, annex, paras. 31–32. Belarus has not ratified the Doha Amendment.

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Belgium's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	41 387 106	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 13

**Belgium's emissions and removals of greenhouse gases in 2017 and 2018**

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		114 539 902		118 005 105	118 455 738
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		639 479		285 722	292 609
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-1 313 407		-1 408 686	-1 408 166
FMRL (t CO <sub>2</sub> eq/year)		-2 499 000		-2 499 000	-2 499 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		1 954 000		1 940 000	1 940 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 14

**Belgium's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	3 267 881	NO	17 121 138	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	40 250	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>3 267 881</b>	<b>NO</b>	<b>17 161 388</b>	<b>NO</b>	<b>NO</b>

Table 15  
**Belgium's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	3 267 881	NO	17 128 768	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	40 250	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>3 267 881</b>	<b>NO</b>	<b>17 169 018</b>	<b>NO</b>	<b>NO</b>

Table 16  
**Belgium's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	9 153	NO	NO
Total transactions	NO	NO	NO	9 153	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	1 523	NO	NO
Total transactions	NO	NO	NO	1 523	NO	NO

## VI. Bulgaria

16. Bulgaria met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 25 November 2008.

17. Tables 17–21 provide detailed information on Bulgaria’s initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 17

**Key initial accounting parameters under the Kyoto Protocol for Bulgaria**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	114 105 323	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	222 945 983	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Bulgaria’s assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	31 949 490	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 18

**Bulgaria’s emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		61 367 164		61 682 758	57 815 589
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		–1 739 039		–2 034 093	–2 293 582
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–7 049 267		–7 333 872	–7 318 331
FMRL (t CO <sub>2</sub> eq/year)		–7 950 000		–7 950 000	–7 950 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 19

**Bulgaria’s total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	620 328	NO	83 593	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>620 328</b>	<b>NO</b>	<b>83 593</b>	<b>NO</b>	<b>NO</b>

Table 20  
Bulgaria's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	620 328	NO	83 593	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>620 328</b>	<b>NO</b>	<b>83 593</b>	<b>NO</b>	<b>NO</b>

Table 21  
Bulgaria's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						

Transaction type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## VII. Croatia

18. Croatia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 27 December 2009.

19. Tables 22–26 provide detailed information on Croatia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 22

### Key initial accounting parameters under the Kyoto Protocol for Croatia

Parameter	Value	Unit
Total base-year emissions <sup>a</sup>	31 204 631	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	162 271 086	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Croatia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	8 737 296	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 23

### Croatia's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		25 019 749		25 032 082	23 792 796
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-168 994		-157 403	-246 093
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-5 536 297		-5 536 297	-5 473 966
FMRL (t CO <sub>2</sub> eq/year)		-6 289 000		-6 289 000	-6 289 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		904 831		904 831	904 831

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 24

**Croatia's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 25

**Croatia's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO



<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 26  
Croatia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## VIII. Cyprus

20. The eligibility of Cyprus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established<sup>5</sup> as at 17 October 2020. Upon the entry into force of the Doha Amendment, the assigned amount for Cyprus will be recorded in the compilation and accounting database and its eligibility will be established.

21. Tables 27–31 provide detailed information on Cyprus's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 27  
Key initial accounting parameters under the Kyoto Protocol for Cyprus

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	5 627 236	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	47 450 128	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Cyprus's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	1 575 626	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>5</sup> See decision 11/CMP.1, annex, paras. 2–3, in conjunction with decision 1/CMP. 8; decision 9/CMP.1, annex, paras. 21–22; and decision 3/CMP.1, annex, paras. 31–32.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> Cyprus did not have a quantified emission limitation or reduction commitment in the first commitment period of the Kyoto Protocol.

Table 28

**Cyprus's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		8 963 241		8 974 399	8 811 611
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-36 758		-37 183	-35 067
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-133 010		-143 776	-134 940
FMRL (t CO <sub>2</sub> eq/year)		-157 000		-157 000	-157 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NO	NO	NO	NO	NO

Table 29

**Cyprus's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 30  
**Cyprus's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 31  
**Cyprus's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## IX. Czechia

22. Czechia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 24 February 2008.

23. Tables 32–36 provide detailed information on Czechia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 32

**Key initial accounting parameters under the Kyoto Protocol for Czechia**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	198 316 406	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	520 515 203	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Czechia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	55 528 593	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 33

**Czechia's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		129 383 525		129 777 011	128 139 420
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-551 050		-300 729	-387 514
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-1 725 046		-1 859 337	6 345 737
FMRL (t CO <sub>2</sub> eq/year)		-4 686 000		-4 686 000	-4 686 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 34

**Czechia's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	19 649	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>19 649</b>	<b>NO</b>	<b>NO</b>

Table 35  
Czechia's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	19 649	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>19 649</b>	<b>NO</b>	<b>NO</b>

Table 36  
Czechia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## X. Denmark

24. Denmark met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 20 April 2008.

25. Tables 37–41 provide detailed information on Denmark's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 37

### Key initial accounting parameters under the Kyoto Protocol for Denmark

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	70 801 910	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	269 377 890	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Denmark's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	19 822 068	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 8,807 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 38

### Denmark's emissions and removals of greenhouse gases in 2017 and 2018

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		47 892 354		48 353 712	48 223 790
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-576 825		-574 109	-166 737
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		337 490		322 530	554 199
FMRL (t CO <sub>2</sub> eq/year)		409 000		409 000	409 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-82 617		-82 617	-82 617
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	5 470 608	3 204 351	7 021 990	4 662 709	6 138 115

Table 39  
Denmark's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	283 191	NO	NO
Entity holding accounts	NO	NO	NO	788	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	11 164	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>295 143</b>	<b>NO</b>	<b>NO</b>

Table 40  
Denmark's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	284 392	NO	NO
Entity holding accounts	NO	NO	NO	3 379 521	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	11 164	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>3 675 077</b>	<b>NO</b>	<b>NO</b>

Table 41  
Denmark's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	3 381 133	NO	NO
Total transactions	NO	NO	NO	3 381 133	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	1 199	NO	NO
Total transactions	NO	NO	NO	1 199	NO	NO

## XI. Estonia

26. Estonia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 15 April 2008.

27. Tables 42–46 provide detailed information on Estonia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 42  
Key initial accounting parameters under the Kyoto Protocol for Estonia

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	39 996 697	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	51 056 976	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Estonia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	11 199 075	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.



Table 43

**Estonia's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		20 879 879		20 923 490	19 974 140
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		65 211		110 701	86 129
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-3 089 982		-3 469 202	-3 800 959
FMRL (t CO <sub>2</sub> eq/year)		-2 741 000		-2 741 000	-2 741 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NE		NE	NE
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 44

**Estonia's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 45

**Estonia's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 46  
Estonia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XII. European Union

28. The EU met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 18 April 2008.

29. Tables 47–51 provide detailed information on the EU's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 47  
Key initial accounting parameters under the Kyoto Protocol for the European Union

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	5 875 692 700	t CO <sub>2</sub> eq

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	15 813 089 338	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	-1 063 645 030	t CO <sub>2</sub> eq
Limitation on the additions to the assigned amount of the EU resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	1 643 637 017	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 5,560,495 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amount of the EU (15,813,089,338 t CO<sub>2</sub> eq) is the difference between (1) the joint assigned amount of the EU, its member States and Iceland, equalling 80 per cent of its base-year emissions as inscribed in the third column of the table in Annex B in the Doha Amendment to the Kyoto Protocol (annex I to decision 1/CMP.8), multiplied by eight (37,604,433,280 t CO<sub>2</sub> eq) and (2) the sum of the individual assigned amounts of the 28 member States and Iceland (21,791,343,942 t CO<sub>2</sub> eq) determined in line with the terms of the joint fulfilment agreement.

Table 48

**The European Union's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		4 332 683 595		4 332 635 257	4 233 885 390
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-12 966 459		-16 369 211	-20 508 394
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-417 696 434		-416 834 676	-355 616 619
FMRL (t CO <sub>2</sub> eq/year)		-315 476 000		-315 476 000	-315 476 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		35 421 406		33 605 719	32 310 719
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	60 876 230	47 795 599	62 285 457	42 195 511	43 308 765

Table 49

**The European Union's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	103 372 063	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	8 916 731	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>112 288 794</b>	<b>NO</b>	<b>NO</b>

Table 50  
**The European Union's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	116 381 395	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	13 437 408	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>129 818 803</b>	<b>NO</b>	<b>NO</b>

Table 51  
**The European Union's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	24 973 587	NO	NO
Total transactions	NO	NO	NO	24 973 587	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	4 520 677	NO	NO
External transactions	NO	NO	NO	7 443 578	NO	NO

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total transactions	NO	NO	NO	11 964 255	NO	NO

### XIII. Finland

30. Finland met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

31. Tables 52–56 provide detailed information on Finland’s initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 52

#### Key initial accounting parameters under the Kyoto Protocol for Finland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	71 350 147	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	240 544 599	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Finland’s assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	19 978 041	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 53

#### Finland’s emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		55 387 246		55 389 668	56 411 260
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		2 668 180		2 705 167	2 526 851
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–39 316 498		–36 832 180	–28 989 696
FMRL (t CO <sub>2</sub> eq/year)		–20 466 000		–20 466 000	–20 466 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		–10 939 000		–10 938 000	–10 938 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 54  
**Finland's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	2 912 592	NO	9 226 849	NO	NO
Entity holding accounts	NO	4 625	NO	251 247	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	26 822	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 917 217</b>	<b>NO</b>	<b>9 504 918</b>	<b>NO</b>	<b>NO</b>

Table 55  
**Finland's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	2 912 592	NO	9 527 241	NO	NO
Entity holding accounts	NO	4 625	NO	236 766	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	38 154	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 917 217</b>	<b>NO</b>	<b>9 802 161</b>	<b>NO</b>	<b>NO</b>

Table 56  
**Finland's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	631 944	NO	NO
Total transactions	NO	NO	NO	631 944	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	11 332	NO	NO
External transactions	NO	NO	NO	334 701	NO	NO
Total transactions	NO	NO	NO	346 033	NO	NO

## XIV. France

32. France met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 21 April 2008.

33. Tables 57–61 provide detailed information on France's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 57  
**Key initial accounting parameters under the Kyoto Protocol for France**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	548 055 757	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	3 014 714 832	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to France's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	153 455 612	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 58

**France's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		464 592 511		463 536 957	444 823 315
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		1 319 277		-3 336 531	-3 886 269
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-45 875 938		-39 250 374	-37 622 922
FMRL (t CO <sub>2</sub> eq/year)		-67 410 000		-67 410 000	-67 410 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		21 795 000		21 795 000	21 795 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NO	IE, NE, NO	NO	NA, NO	NA, NO

Table 59

**France's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	458 870	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	49 376	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>508 246</b>	<b>NO</b>	<b>NO</b>



Table 60  
**France's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	3 969	NO	935 721	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	106 263	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>3 969</b>	<b>NO</b>	<b>1 041 984</b>	<b>NO</b>	<b>NO</b>

Table 61  
**France's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	3 969	NO	533 738	NO	NO
Total transactions	NO	3 969	NO	533 738	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	56 887	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	56 887	NO	NO

## XV. Germany

34. Germany met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 27 April 2008.

35. Tables 62–66 provide detailed information on Germany's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 62

**Key initial accounting parameters under the Kyoto Protocol for Germany**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	1 253 599 336	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	3 592 699 888	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Germany's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	351 007 813	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 63

**Germany's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		906 611 464		894 296 279	858 368 679
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-5 010 451		-5 660 022	-6 244 510
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-55 694 910		-64 507 685	-65 239 567
FMRL (t CO <sub>2</sub> eq/year)		-22 418 000		-22 418 000	-22 418 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		5 268 000		5 268 000	5 268 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	38 440 460	36 750 533	36 936 268	34 966 759	34 777 107

Table 64

**Germany's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	750 300	NO	NO
Entity holding accounts	NO	29 000	NO	3 403 038	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	2 112 911	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>29 000</b>	<b>NO</b>	<b>6 266 249</b>	<b>NO</b>	<b>NO</b>

Table 65  
**Germany's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	2 849 400	NO	NO
Entity holding accounts	NO	30 612	NO	3 525 829	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	6 044 122	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>30 612</b>	<b>NO</b>	<b>12 419 351</b>	<b>NO</b>	<b>NO</b>

Table 66  
**Germany's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	1612	NO	12 538 235	NO	NO
Total transactions	NO	1612	NO	12 538 235	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	3 931 211	NO	NO

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
External transactions	NO	NO	NO	6 385 133	NO	NO
Total transactions	NO	NO	NO	10 316 344	NO	NO

## XVI. Greece

36. Greece met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 29 April 2008.

37. Tables 67–71 provide detailed information on Greece's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 67

### Key initial accounting parameters under the Kyoto Protocol for Greece

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	107 564 136	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	480 791 166	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Greece's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	30 117 958	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 68

### Greece's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		95 420 782		95 585 973	92 221 660
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-27 733		-27 733	-27 733
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-1 952 175		-1 952 175	-1 952 175
FMRL (t CO <sub>2</sub> eq/year)		-1 830 000		-1 830 000	-1 830 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		210 402		210 402	210 402
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 69  
Greece's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 70  
Greece's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 71  
Greece's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XVII. Hungary

38. Hungary met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 30 December 2007.

39. Tables 72–76 provide detailed information on Hungary's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 72  
Key initial accounting parameters under the Kyoto Protocol for Hungary

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	109 574 819	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	434 486 280	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Hungary's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	30 680 949	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 73  
**Hungary's emissions and removals of greenhouse gases in 2017 and 2018**  
 (t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		63 787 580		63 781 353	63 219 560
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-986 878		-986 878	-789 339
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 320 840		-3 590 827	-3 198 531
FMRL (t CO <sub>2</sub> eq/year)		-1 000 349		-1 000 349	-1 000 349
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-40 373		-40 373	-40 373
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 74  
**Hungary's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	3 872 627	NO	5 329 060	NO	NO
Entity holding accounts	NO	1 267	NO	7 517	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	3 000	NO	99	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>3 876 894</b>	<b>NO</b>	<b>5 336 676</b>	<b>NO</b>	<b>NO</b>

Table 75  
**Hungary's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	3 872 627	NO	5 329 060	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	1 267	NO	6 216	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	3 000	NO	1 400	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>3 876 894</b>	<b>NO</b>	<b>5 336 676</b>	<b>NO</b>	<b>NO</b>

Table 76  
Hungary's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	1 301	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	1 301	NO	NO

## XVIII. Iceland

40. Iceland met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 11 May 2008.

41. Tables 77–81 provide detailed information on Iceland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 77  
Key initial accounting parameters under the Kyoto Protocol for Iceland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	3 633 558	t CO <sub>2</sub> eq



<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	15 327 217	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Iceland's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	1 017 396	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 78

**Iceland's emissions and removals of greenhouse gases in 2017 and 2018**

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		4 765 830		4 835 507	4 856 954
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-258 386		-291 124	-291 174
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-86 777		-91 938	-94 847
FMRL (t CO <sub>2</sub> eq/year)		-154 000		-154 000	-154 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		76 950		76 950	76 950
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-347 705	-592 836	-347 705	-620 703	-637 014

Table 79

**Iceland's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 80  
Iceland's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 81  
Iceland's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XIX. Ireland

42. Ireland met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 19 April 2008.

43. Tables 82–86 provide detailed information on Ireland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 82

### Key initial accounting parameters under the Kyoto Protocol for Ireland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	56 425 830	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	343 519 892	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Ireland's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	15 796 928	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 8,230 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 83

### Ireland's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		60 743 725		61 004 876	60 934 541
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-3 435 446		-3 349 747	-3 330 147
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-918 882		-984 069	-815 212
FMRL (t CO <sub>2</sub> eq/year)		-142 070		-142 070	-142 070
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-933 521		-933 521	-933 521
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	6 837 777	6 577 029	6 932 729	6 542 472	6 440 154

Table 84

### Ireland's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	74 964	NO	5 255 000	176 508	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>74 964</b>	<b>NO</b>	<b>5 255 000</b>	<b>176 508</b>	<b>NO</b>

Table 85

**Ireland's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	74 964	NO	5 655 576	314 891	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>74 964</b>	<b>NO</b>	<b>5 655 576</b>	<b>314 891</b>	<b>NO</b>

Table 86  
Ireland's total transactions of Kyoto Protocol units in 2019

Transaction type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	400 576	138 383	NO
Total transactions	NO	NO	NO	400 576	138 383	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XX. Italy

44. Italy met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 19 April 2008.

45. Tables 87–91 provide detailed information on Italy's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 87  
Key initial accounting parameters under the Kyoto Protocol for Italy

Parameter	Value	Unit
Total base-year emissions <sup>a</sup>	521 920 601	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	2 410 291 421	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Italy's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	146 137 768	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 88  
Italy's emissions and removals of greenhouse gases in 2017 and 2018  
(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		427 707 847		431 324 463	427 529 021
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-3 301 967		-3 184 528	-5 976 521
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-14 118 035		-14 068 218	-25 914 058
FMRL (t CO <sub>2</sub> eq/year)		-22 166 000		-22 166 000	-22 166 000

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-1 680 061		-1 680 061	-1 680 061
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-124 650	-849 705	548 067	-6 260 955	-5 910 911

Table 89

**Italy's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	698 870	NO	975 569	NO	NO
Entity holding accounts	NO	402 417	NO	3 379 705	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	7 659	NO	5 669	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>1 108 946</b>	<b>NO</b>	<b>4 360 943</b>	<b>NO</b>	<b>NO</b>

Table 90

**Italy's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	698 870	NO	975 569	NO	NO
Entity holding accounts	NO	402 416	NO	3 944 535	29 694	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	7 660	NO	6 044	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>1 108 946</b>	<b>NO</b>	<b>4 926 148</b>	<b>29 694</b>	<b>NO</b>

Table 91  
Italy's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	622 614	29 694	NO
Total transactions	NO	NO	NO	622 614	29 694	NO
<i>Subtractions</i>						
Internal transactions	NO	1	NO	375	NO	NO
External transactions	NO	NO	NO	57 409	NO	NO
Total transactions	NO	1	NO	57 784	NO	NO

## XXI. Kazakhstan

46. Kazakhstan is subject to questions of implementation in respect of the 2019 annual review report<sup>6</sup> as per the decision on preliminary examination (dated 30 September 2020)<sup>7</sup> of the enforcement branch of the Compliance Committee in accordance with decision 7/CMP.9, paragraph 5. Kazakhstan is also currently implementing a plan in respect of questions of implementation raised in the 2017 annual review report.<sup>8</sup> Kazakhstan has not ratified the Doha Amendment.

47. Tables 92–93 provide detailed information on Kazakhstan's initial accounting parameters for the second commitment period under the Kyoto Protocol and its GHG emissions and removals.

Table 92  
Key initial accounting parameters under the Kyoto Protocol for Kazakhstan

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	371 295 113	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	95	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	2 821 842 860	t CO <sub>2</sub> eq

<sup>6</sup> FCCC/ARR/2019/KAZ.

<sup>7</sup> See document CC-2020-1-1/Kazakhstan/EB, para. 9; available at <https://unfccc.int/process-and-meetings/the-kyoto-protocol/compliance-under-the-kyoto-protocol/questions-of-implementation-kazakhstan-2020>.

<sup>8</sup> See <https://unfccc.int/process-and-meetings/the-kyoto-protocol/compliance-under-the-kyoto-protocol/questions-of-implementation-kazakhstan>.

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>b</sup>	548 265 662	t CO <sub>2</sub> eq
Limitation on the additions to Kazakhstan's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	103 962 632	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> Kazakhstan did not have a quantified emission limitation or reduction commitment in the first commitment period of the Kyoto Protocol.

Table 93

**Kazakhstan's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		366 174 097		381 931 518	396 570 465
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol				-4 645 667	-4 090 533
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals FMRL (t CO <sub>2</sub> eq/year) <sup>a</sup>				-12 942 746	-10 498 430
Technical correction to FMRL (t CO <sub>2</sub> eq/year)					
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	3 409 267		-205 333	-7 289 333	-6 240 667

<sup>a</sup> Kazakhstan has not yet submitted information on its FMRL in accordance with the guidelines outlined in part I of appendix II to decision 2/CMP.6, and therefore it has no value for its FMRL inscribed in the appendix to the annex to decision 2/CMP.7.

48. As at 17 October 2020, Kazakhstan had not yet submitted standard electronic format tables for 2018 and 2019.

**XXII. Latvia**

49. Latvia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 29 April 2008.

50. Tables 94–98 provide detailed information on Latvia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 94

**Key initial accounting parameters under the Kyoto Protocol for Latvia**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	26 409 077	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	76 633 439	t CO <sub>2</sub> eq



<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Latvia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	7 394 541	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 95

**Latvia's emissions and removals of greenhouse gases in 2017 and 2018**

 (t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		11 325 325		11 267 280	11 757 063
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		192 556		741 800	760 914
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 612 602		-3 103 113	-2 334 007
FMRL (t CO <sub>2</sub> eq/year)		-16 302 000		-16 302 000	-16 302 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		11 703 392		11 703 392	11 703 392
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA, NO	NA, NO	NA, NO

Table 96

**Latvia's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	5 317	NO	21 550	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>5 317</b>	<b>NO</b>	<b>21 550</b>	<b>NO</b>	<b>NO</b>

Table 97

**Latvia's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	5 317	NO	21 550	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>5 317</b>	<b>NO</b>	<b>21 550</b>	<b>NO</b>	<b>NO</b>

Table 98

**Latvia's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

**XXIII. Liechtenstein**

51. Liechtenstein met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

52. Tables 99–103 provide detailed information on Liechtenstein’s initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 99

**Key initial accounting parameters under the Kyoto Protocol for Liechtenstein**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	231 554	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	84	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	1 556 044	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	–410 191	t CO <sub>2</sub> eq
Limitation on the additions to Liechtenstein’s assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	64 169	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

Table 100

**Liechtenstein’s emissions and removals of greenhouse gases in 2017 and 2018**

 (t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		193 623		193 998	181 076
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		4 280		4 280	4 115
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–461		–461	11 650
FMRL (t CO <sub>2</sub> eq/year)		100		100	100
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		259		259	259
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol		NO		NO	NO

Table 101

**Liechtenstein’s total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	260 541	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>260 541</b>	<b>NO</b>	<b>NO</b>

Table 102  
Liechtenstein's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	314 004	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>314 004</b>	<b>NO</b>	<b>NO</b>

Table 103  
Liechtenstein's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	53 463	NO	NO
Total transactions	NO	NO	NO	53 463	NO	NO

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXIV. Lithuania

53. Lithuania met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

54. Tables 104–108 provide detailed information on Lithuania's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 104

### Key initial accounting parameters under the Kyoto Protocol for Lithuania

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	48 196 540	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	113 600 821	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Lithuania's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	13 495 031	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 105

### Lithuania's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		20 705 943		20 617 614	20 266 829
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-383 992		-204 231	955 598
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-6 343 907		-3 084 035	-3 132 822
FMRL (t CO <sub>2</sub> eq/year)		-4 552 000		-4 552 000	-4 552 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-922 000		-922 000	-922 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 106

**Lithuania's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	633 399	NO	229 828	NO	NO
Entity holding accounts	NO	1 693 601	NO	17 138	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 327 000</b>	<b>NO</b>	<b>246 966</b>	<b>NO</b>	<b>NO</b>

Table 107

**Lithuania's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	633 399	NO	229 828	NO	NO
Entity holding accounts	NO	1 693 601	NO	17 138	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 327 000</b>	<b>NO</b>	<b>246 966</b>	<b>NO</b>	<b>NO</b>

Table 108  
**Lithuania's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXV. Luxembourg

55. Luxembourg met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 29 April 2008.

56. Tables 109–113 provide detailed information on Luxembourg's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 109  
**Key initial accounting parameters under the Kyoto Protocol for Luxembourg**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	13 141 245	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	72 454 473	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Luxembourg's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	3 604 402	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 268,381 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 110

**Luxembourg's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		10 236 084		10 235 697	10 547 155
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-128 985		-129 327	-128 405
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-240 992		-277 369	-94 942
FMRL (t CO <sub>2</sub> eq/year)		-418 000		-418 000	-418 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		181 680		181 680	181 680
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 111

**Luxembourg's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	1 484 841	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>1 484 841</b>	<b>NO</b>	<b>NO</b>

Table 112

**Luxembourg's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	1 543 353	70 181	NO



<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>1 543 353</b>	<b>70 181</b>	<b>NO</b>

Table 113  
Luxembourg's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	58 512	70 181	NO
Total transactions	NO	NO	NO	58 512	70 181	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXVI. Malta

57. The eligibility of Malta to participate in the flexibility mechanisms under the Kyoto Protocol had not been established<sup>9</sup> as at 17 October 2020. Upon the entry into force of the Doha Amendment, the assigned amount for Malta will be recorded in the compilation and accounting database and its eligibility will be established.

58. Tables 114–118 provide detailed information on Malta's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

<sup>9</sup> See decision 11/CMP.1, annex, paras. 2–3, in conjunction with decision 1/CMP.8; decision 9/CMP.1, annex, paras. 21–22; and decision 3/CMP.1, annex, paras. 31–32.

Table 114

**Key initial accounting parameters under the Kyoto Protocol for Malta**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	1 974 638	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	9 299 769	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Malta's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	552 898	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> Malta did not have a quantified emission limitation or reduction commitment in the first commitment period of the Kyoto Protocol.

Table 115

**Malta's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		2 209 817		2 156 180	2 186 113
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		NO		NO	NO
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		NE, NO		NO	NO
FMRL (t CO <sub>2</sub> eq/year)		-49 000		-49 000	-49 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		49 000		49 000	49 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NE, NO	NE, NO	NO	NO	NO

Table 116

**Malta's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 117  
**Malta's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 118  
**Malta's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXVII. Monaco

59. Monaco met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 7 September 2008.

60. Tables 119–123 provide information on Monaco's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 119

### Key initial accounting parameters under the Kyoto Protocol for Monaco

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	99 319	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	78	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	619 751	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	–92 460	t CO <sub>2</sub> eq
Limitation on the additions to Monaco's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	27 809 000	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

Table 120

### Monaco's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		86 851		85 523	86 925
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		NO		NO	NO
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		NO		NO	NO
FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NO	NO	NO	NO	NO

Table 121

### Monaco's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	25 000	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>25 000</b>	<b>NO</b>	<b>NO</b>

Table 122

**Monaco's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	40 000	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>40 000</b>	<b>NO</b>	<b>NO</b>

Table 123  
**Monaco's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	15 000	NO	NO
Total transactions	NO	NO	NO	15 000	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXVIII. Netherlands

61. The Netherlands met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 21 April 2008.

62. Tables 124–128 provide detailed information on the initial accounting parameters of the Netherlands for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 124  
**Key initial accounting parameters under the Kyoto Protocol for the Netherlands**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	223 950 669	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	924 777 902	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to the assigned amount of the Netherlands resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	62 495 551	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 752,270 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 125  
**The Netherlands' emissions and removals of greenhouse gases in 2017 and 2018**  
 (t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		193 712 968		193 329 515	188 196 789
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		700 552		669 957	704 430
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–990 038		–1 048 556	–1 027 304

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
FMRL (t CO <sub>2</sub> eq/year)		-1 425 000		-1 425 000	-1 425 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NE		NE	NE
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 126  
The Netherlands' total quantities of Kyoto Protocol units by account type at the end of 2018

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	544 246	NO	NO
Entity holding accounts	NO	NO	NO	2 921 358	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	10 000	NO	319 673	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>10 000</b>	<b>NO</b>	<b>3 785 277</b>	<b>NO</b>	<b>NO</b>

Table 127  
The Netherlands' total quantities of Kyoto Protocol units by account type at the end of 2019

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	547 839	NO	NO
Entity holding accounts	NO	NO	NO	2 643 718	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	15 000	NO	799 880	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>15 000</b>	<b>NO</b>	<b>3 991 437</b>	<b>NO</b>	<b>NO</b>

Table 128

**The Netherlands' total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	4 849 889	NO	13 790 047	NO	NO
Total transactions	NO	4 849 889	NO	13 790 047	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	5 000	NO	480 207	NO	NO
External transactions	NO	4 844 889	NO	13 583 887	NO	NO
Total transactions	NO	4 849 889	NO	14 064 094	NO	NO

**XXIX. Norway**

63. Norway met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

64. Tables 129–133 provide detailed information on Norway's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 129

**Key initial accounting parameters under the Kyoto Protocol for Norway**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	51 921 771	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	84	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	348 914 303	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	-86 925 501	t CO <sub>2</sub> eq
Limitation on the additions to Norway's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	14 538 096	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.



Table 130

**Norway's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		52 712 543		52 386 525	52 022 405
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		1 729 402		1 797 838	1 937 369
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals FMRL (t CO <sub>2</sub> eq/year)		-28 914 537		-26 978 599	-27 740 506
Technical correction to FMRL (t CO <sub>2</sub> eq/year)					
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	1 713 793	1 775 578	1 679 828	1 743 685	1 753 837

Table 131

**Norway's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	738 305	NO	21 433 553	NO	NO
Entity holding accounts	NO	84 848	NO	634 399	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	176 634	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>823 153</b>	<b>NO</b>	<b>22 244 586</b>	<b>NO</b>	<b>NO</b>

Table 132

**Norway's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	738 305	NO	28 302 529	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	84 848	NO	587 774	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	351 831	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>823 153</b>	<b>NO</b>	<b>29 242 134</b>	<b>NO</b>	<b>NO</b>

Table 133  
Norway's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	7 408 117	NO	NO
Total transactions	NO	NO	NO	7 408 117	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	175 197	NO	NO
External transactions	NO	NO	NO	410 569	NO	NO
Total transactions	NO	NO	NO	585 766	NO	NO

### XXX. Poland

65. Poland met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 29 April 2008.

66. Tables 134–138 provide detailed information on Poland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 134  
Key initial accounting parameters under the Kyoto Protocol for Poland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	580 020 010	t CO <sub>2</sub> eq

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	1 583 938 824	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Poland's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	162 405 602	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 135

**Poland's emissions and removals of greenhouse gases in 2017 and 2018**

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		413 781 401		414 679 371	412 856 373
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-2 562 425		-2 809 442	-2 780 184
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-37 839 290		-37 781 869	-37 958 976
FMRL (t CO <sub>2</sub> eq/year)		-27 133 000		-27 133 000	-27 133 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NA		NA	NA
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 136

**Poland's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	37 556 760	NO	42 947 508	NO	NO
Entity holding accounts	NO	17 688	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	18 651	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>37 574 448</b>	<b>NO</b>	<b>42 966 159</b>	<b>NO</b>	<b>NO</b>

Table 137  
**Poland's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	37 556 760	NO	42 947 508	NO	NO
Entity holding accounts	NO	4 832 129	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	18 651	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>42 388 889</b>	<b>NO</b>	<b>42 966 159</b>	<b>NO</b>	<b>NO</b>

Table 138  
**Poland's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXXI. Portugal

67. Portugal met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 28 April 2008.

68. Tables 139–143 provide detailed information on Portugal's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 139

### Key initial accounting parameters under the Kyoto Protocol for Portugal

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	65 028 094	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	429 581 969	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Portugal's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	17 010 374	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 4,276,759 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 140

### Portugal's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		70 736 564		70 638 912	67 416 792
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		1 471 221		1 754 246	–850 973
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		7 828 782		10 031 558	–3 433 420
FMRL (t CO <sub>2</sub> eq/year)		–6 830 000		–6 830 000	–6 830 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year r)		3 260 788		3 260 788	3 260 788
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	4 795 150	253 801	4 795 150	253 801	227 709

Table 141

### Portugal's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 142  
**Portugal's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 143  
**Portugal's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXXII. Romania

69. Romania met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 18 September 2008.

70. Tables 144–148 provide detailed information on Romania's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 144  
**Key initial accounting parameters under the Kyoto Protocol for Romania**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	304 920 568	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	656 059 490	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Romania's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	85 377 759	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 145  
**Romania's emissions and removals of greenhouse gases in 2017 and 2018**  
 (t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		113 795 945		116 875 468	116 115 115
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		7 532 857		7 532 857	8 242 817
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-88 646 676		-94 051 846	-28 955 460
FMRL (t CO <sub>2</sub> eq/year)		15 793 000		15 793 000	-15 793 000

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NE		NE	NE
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-1 698 592	-1 330 603	-1 698 592	-1 330 603	-1 330 603

Table 146

**Romania's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	17 860 750	NO	8 578 507	NO	NO
Entity holding accounts	NO	9 975	NO	114 108	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>17 870 725</b>	<b>NO</b>	<b>8 692 615</b>	<b>NO</b>	<b>NO</b>

Table 147

**Romania's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	17 860 750	NO	8 578 507	NO	NO
Entity holding accounts	NO	9 975	NO	114 108	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	



<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>17 870 725</b>	<b>NO</b>	<b>8 692 615</b>	<b>NO</b>	<b>NO</b>

Table 148  
**Romania's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

### XXXIII. Slovakia

71. Slovakia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 4 February 2008.

72. Tables 149–153 provide detailed information on Slovakia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 149  
**Key initial accounting parameters under the Kyoto Protocol for Slovakia**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	74 271 511	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	202 268 939	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Slovakia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	20 796 023	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 150

**Slovakia's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		43 437 502		43 475 291	43 348 350
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-486 715		-488 245	-455 866
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 892 023		-5 384 611	-4 566 144
FMRL (t CO <sub>2</sub> eq/year)		-1 084 000		-1 084 000	-1 084 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-1 164 000		-1 164 000	-2 459 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 151

**Slovakia's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 152

**Slovakia's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 153  
Slovakia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXXIV. Slovenia

73. Slovenia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 22 April 2008.

74. Tables 154–158 provide detailed information on Slovenia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 154  
Key initial accounting parameters under the Kyoto Protocol for Slovenia

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	20 327 584	t CO <sub>2</sub> eq

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	99 425 782	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Slovenia's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	5 691 720	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 155

**Slovenia's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		17 453 495		17 366 764	17 502 138
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		238 093		236 313	236 906
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-724 792		506 758	865 921
FMRL (t CO <sub>2</sub> eq/year)		-3 171 000		-3 171 000	-3 171 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NE		NE	NE
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 156

**Slovenia's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 157  
Slovenia's total quantities of Kyoto Protocol units by account type at the end of 2019

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 158  
Slovenia's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXXV. Spain

75. Spain met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 19 April 2008.

76. Tables 159–163 provide detailed information on Spain's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 159

### Key initial accounting parameters under the Kyoto Protocol for Spain

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	283 361 698	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	1 766 877 232	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Spain's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	79 341 275	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 160

### Spain's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		340 230 876		340 298 289	334 255 164
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-5 513 633		-5 528 394	-4 881 976
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-29 930 426		-30 547 777	-30 277 855
FMRL (t CO <sub>2</sub> eq/year)		-23 100 000		-23 100 000	-23 100 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		NO		NO	NO
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-95 022	-3 016 725	-95 022	-2 979 375	-3 164 011

Table 161

### Spain's total quantities of Kyoto Protocol units by account type at the end of 2018

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	1 842 444	NO	16 141 231	173 380	NO
Entity holding accounts	NO	308 658	NO	1 080 511	23 844	NO
Retirement account	NO	NO	NO	NO	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	19 366	NO	505 490	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 170 468</b>	<b>NO</b>	<b>17 727 232</b>	<b>197 224</b>	<b>NO</b>

Table 162  
**Spain's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	1 842 444	NO	16 516 443	495 976	NO
Entity holding accounts	NO	308 658	NO	883 958	42 538	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	19 366	NO	840 386	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 170 468</b>	<b>NO</b>	<b>18 240 787</b>	<b>538 514</b>	<b>NO</b>

Table 163  
Spain's total transactions of Kyoto Protocol units in 2019

Transaction type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	878 997	341 290	NO
Total transactions	NO	NO	NO	878 997	341 290	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	334 896	NO	NO
External transactions	NO	NO	NO	365 442	NO	NO
Total transactions	NO	NO	NO	700 338	NO	NO

## XXXVI. Sweden

77. Sweden met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 19 April 2008.

78. Tables 164–168 provide detailed information on Sweden's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 164  
Key initial accounting parameters under the Kyoto Protocol for Sweden

Parameter	Value	Unit
Total base-year emissions <sup>a</sup>	72 057 123	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	315 554 578	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to Sweden's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	20 175 994	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 165  
Sweden's emissions and removals of greenhouse gases in 2017 and 2018  
(t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		52 660 267		52 715 030	51 779 237
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		13 683		1 213 566	1 299 651
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–49 168 637		–49 501 025	–47 956 374
FMRL (t CO <sub>2</sub> eq/year)		–41 336 099		–41 336 099	–41 336 099



Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		9 339 936		7 878 248	7 878 248
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 166

**Sweden's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	7 440 037	NO	NO
Entity holding accounts	NO	NO	NO	1 831 019	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	5 394 057	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>14 665 113</b>	<b>NO</b>	<b>NO</b>

Table 167

**Sweden's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	12 053 487	NO	NO
Entity holding accounts	NO	NO	NO	1 809 454	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	5 571 425	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>19 434 366</b>	<b>NO</b>	<b>NO</b>

Table 168  
Sweden's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	6 386 227	NO	NO
Total transactions	NO	NO	NO	6 386 227	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	177 368	NO	NO
External transactions	NO	NO	NO	1 616 974	NO	NO
Total transactions	NO	NO	NO	1 794 342	NO	NO

## XXXVII. Switzerland

79. Switzerland met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 10 March 2008.

80. Tables 169–173 provide detailed information on Switzerland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 169  
Key initial accounting parameters under the Kyoto Protocol for Switzerland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	53 706 729	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	84.2	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	361 768 524	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	-69 065 389	t CO <sub>2</sub> eq
Limitation on the additions to Switzerland's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	15 037 884	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

Table 170  
**Switzerland's emissions and removals of greenhouse gases in 2017 and 2018**  
 (t CO<sub>2</sub> eq)

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Emissions of GHGs from Annex A sources		47 241 903		47 958 969	46 417 921
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		146 235		135 591	148 539
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-2 902 215		-2 751 258	-1 278 366
FMRL (t CO <sub>2</sub> eq/year)		220 000		220 000	220 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-2 710 490		-2 710 490	-2 710 490
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA

Table 171  
**Switzerland's total quantities of Kyoto Protocol units by account type at the end of 2018**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	1 941 872	NO	NO
Entity holding accounts	NO	NO	NO	22 626 286	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	5 794 523					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	3 679 898	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>5 794 523</b>	<b>NO</b>	<b>NO</b>	<b>28 248 056</b>	<b>NO</b>	<b>NO</b>

Table 172  
**Switzerland's total quantities of Kyoto Protocol units by account type at the end of 2019**

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	1 979 955	NO	NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Entity holding accounts	NO	78 182 080	NO	24 356 130	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	5 794 523					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	154 276	NO	7 474 766	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>5 794 523</b>	<b>78 336 356</b>	<b>NO</b>	<b>33 810 851</b>	<b>NO</b>	<b>NO</b>

Table 173

**Switzerland's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	78 336 356	NO	17 834 868	NO	NO
Total transactions	NO	78 336 356	NO	17 834 868	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	154 276	NO	3 794 868	NO	NO
External transactions	NO	NO	NO	12 272 073	NO	NO
Total transactions	NO	154 276	NO	16 066 941	NO	NO

**XXXVIII. Ukraine**

81. Ukraine met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 29 April 2008. Ukraine has not ratified the Doha Amendment.

82. Tables 174–178 provide detailed information on Ukraine's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 174

**Key initial accounting parameters under the Kyoto Protocol for Ukraine**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	937 954 204	t CO <sub>2</sub> eq

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	76	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period	5 702 761 558	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight	2 426 086 209	t CO <sub>2</sub> eq
Limitation on the additions to Ukraine's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	262 627 177	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

Table 175

**Ukraine's emissions and removals of greenhouse gases in 2017 and 2018**(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		320 625 820		322 778 652	339 244 285
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-2 461 397		-2 386 814	-2 487 995
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-50 639 908		-49 150 285	-47 175 820
FMRL (t CO <sub>2</sub> eq/year)		-48 700 000		-48 700 000	-48 700 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-2 900 000		-2 900 000	-2 900 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol		NA		NA	NA

Table 176

**Ukraine's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 177

**Ukraine's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 178

**Ukraine's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## XXXIX. United Kingdom of Great Britain and Northern Ireland

83. The United Kingdom of Great Britain and Northern Ireland<sup>10</sup> met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 11 April 2008.

84. Tables 179–183 provide detailed information on the United Kingdom's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 179

### Key initial accounting parameters under the Kyoto Protocol for the United Kingdom of Great Britain and Northern Ireland

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	803 191 325	t CO <sub>2</sub> eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol	80	per cent
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period <sup>b</sup>	2 744 937 332	t CO <sub>2</sub> eq
Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight <sup>c</sup>	NA	
Limitation on the additions to the United Kingdom's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	224 824 677	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from the conversion of forests (deforestation) of 246,048 t CO<sub>2</sub> eq.

<sup>b</sup> The assigned amounts of each EU member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, para. 7 bis, in the Doha Amendment for that member State or Iceland.

<sup>c</sup> This difference is calculated on the basis of the joint assigned amount of the EU, its member States and Iceland.

Table 180

### The United Kingdom of Great Britain and Northern Ireland's emissions and removals of greenhouse gases in 2017 and 2018

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		473 569 767		474 484 506	465 160 689
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-1 001 713		-882 685	-1 159 100
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-17 478 273		-17 991 885	-17 553 259
FMRL (t CO <sub>2</sub> eq/year)		-8 268 000		-8 268 000	-8 268 000
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-9 384 000		-9 725 000	-9 725 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	7 632 367	6 799 754	8 226 734	6 961 406	6 768 221

<sup>10</sup> In 2017 the geographical coverage of the United Kingdom's inventory changed to exclude the territory of Bermuda.

Table 181

**The United Kingdom of Great Britain and Northern Ireland's total quantities of Kyoto Protocol units by account type at the end of 2018**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	70 444	NO	NO
Entity holding accounts	NO	90 139 929	NO	24 586 948	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	498 162	NO	1 282 519	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>90 638 091</b>	<b>NO</b>	<b>25 939 911</b>	<b>NO</b>	<b>NO</b>

Table 182

**The United Kingdom of Great Britain and Northern Ireland's total quantities of Kyoto Protocol units by account type at the end of 2019**

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Party holding accounts	NO	NO	NO	70 491	NO	NO
Entity holding accounts	NO	633 302	NO	15 561 454	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	2 269 774	NO	3 259 735	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	



<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>2 903 076</b>	<b>NO</b>	<b>18 891 680</b>	<b>NO</b>	<b>NO</b>

Table 183

**The United Kingdom of Great Britain and Northern Ireland's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	4 844 889	NO	2 950 043	NO	NO
Total transactions	NO	4 844 889	NO	2 950 043	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	1 771 612	NO	1 977 216	NO	NO
External transactions	NO	92 579 904	NO	9 998 274	NO	NO
Total transactions	NO	94 351 516	NO	11 975 490	NO	NO

## **XL. Parties without quantified emission limitation or reduction commitments for the second commitment period of the Kyoto Protocol**

85. In accordance with decisions 2/CMP.8, paragraph 4, and 3/CMP.11, paragraph 14, Parties included in Annex I without a quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment (Japan, New Zealand and Russian Federation) shall continue to report information on LULUCF activities under Article 3, paragraphs 3–4, of the Kyoto Protocol for the second commitment period as well as relevant information on their national registry, or changes thereto, including information on the units in the registry, if their registry is connected to the international transaction log at any time during the relevant calendar year. This chapter contains the relevant information reported by those Parties.

### **A. Japan**

86. Tables 184–187 provide detailed information on Japan's GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 184

**Japan's emissions and removals of greenhouse gases in 2017 and 2018**

(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		1 291 748 430		1 291 316 161	1 240 405 733
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		277 285		75 531	163 380
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–46 135 042		–46 469 111	–45 360 922

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
FMRL (t CO <sub>2</sub> eq/year)		0		0	0
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		1 723 934		1 686 509	1 820 665
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	11 043 649	2 967 475	11 023 603	2 704 241	2 189 169

Table 185  
Japan's total quantities of Kyoto Protocol units by account type at the end of 2018

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	399 055	NO	NO
Entity holding accounts	NO	NO	NO	952 585	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>1 351 640</b>	<b>NO</b>	<b>NO</b>

Table 186  
Japan's total quantities of Kyoto Protocol units by account type at the end of 2019

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	399 055	NO	NO
Entity holding accounts	NO	NO	NO	1 132 237	336 850	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>1 531 292</b>	<b>336 850</b>	<b>NO</b>

Table 187  
**Japan's total transactions of Kyoto Protocol units in 2019**

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	179 652	336 850	NO
Total transactions	NO	NO	NO	179 652	336 850	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

## B. New Zealand

87. Tables 188–192 provide detailed information on New Zealand's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 188  
**Key initial accounting parameters under the Kyoto Protocol for New Zealand**

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions <sup>a</sup>	65 828 380	t CO <sub>2</sub> eq
Limitation on the additions to the New Zealand's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	18 431 946	t CO <sub>2</sub> eq

<sup>a</sup> The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paras. 7 bis, 8 and 8 bis, in the Doha Amendment.

Table 189  
**New Zealand's emission and removals of greenhouse gases in 2017 and 2018**  
 (t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		80 850 605		79 637 344	78 858 671
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-15 953 010		-15 813 174	-15 447 044
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					

Parameter	2019 submission		2020 submission		
	Base year	2017	Base year	2017	2018
Net emissions or removals		-14 553 907		-13 136 016	-13 898 936
FMRL (t CO <sub>2</sub> eq/year)		11 150		11 150	11 150
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-20 570		-17 500	-17 500
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol		NA, NE		NA, NE	NA, NE

Table 190  
New Zealand's total quantities of Kyoto Protocol units by account type at the end of 2018

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 191  
New Zealand's total quantities of Kyoto Protocol units by account type at the end of 2019

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	NO	NO	NO
Retirement account	NO	NO	NO	NO	NO	NO
Previous period surplus reserve account	NO					
Article 3.3/3.4 net source cancellation accounts	NO	NO	NO	NO		
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	NO	NO	NO
Cancellation account for remaining units after carry-over	NO	NO	NO	NO	NO	NO
Article 3.1 ter and quater ambition increase cancellation account	NO					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Article 3.7 ter cancellation account	NO					
tCER cancellation account for expiry					NO	
ICER cancellation account for expiry						NO
ICER cancellation account for reversal of storage						NO
ICER cancellation account for non-submission of certification report						NO
tCER replacement account for expiry	NO	NO	NO	NO	NO	
ICER replacement account for expiry	NO	NO	NO	NO		
ICER replacement account for reversal of storage	NO	NO	NO	NO		NO
ICER replacement account for non-submission of certification report	NO	NO	NO	NO		NO
<b>Total</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

Table 192  
New Zealand's total transactions of Kyoto Protocol units in 2019

<i>Transaction type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
<i>Additions</i>						
Internal transactions		NO	NO			
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	NO	NO	NO

### C. Russian Federation

88. Table 193 provides detailed information on the Russian Federation's annual GHG emissions and removals.

Table 193  
The Russian Federation's emissions and removals of greenhouse gases in 2017 and 2018  
(t CO<sub>2</sub> eq)

<i>Parameter</i>	<i>2019 submission</i>		<i>2020 submission</i>		
	<i>Base year</i>	<i>2017</i>	<i>Base year</i>	<i>2017</i>	<i>2018</i>
Emissions of GHGs from Annex A sources		2 155 470 669		2 155 270 607	2 220 122 955
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-1 575 529		-1 284 093	-3 143 023
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-503 057 189		-506 041 341	-487 210 642
FMRL (t CO <sub>2</sub> eq/year)		-116 300 000			
Technical correction to FMRL (t CO <sub>2</sub> eq/year)		-16 607 725		-16 607 725	-16 607 725
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	NA	NA	NA	NA	NA