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Item 4(b) of the provisional agenda

Reporting from and review of Parties included in Annex I

**Annual compilation and accounting report for the second commitment
period for Annex B Parties under the Kyoto Protocol**

**Annual compilation and accounting report for Annex B
Parties under the Kyoto Protocol for 2019**

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 2016 and 2017 from sources listed in Annex A to the Kyoto Protocol; greenhouse gas emissions and removals in 2016 and 2017 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. It contains both final values (from the reviews of the 2018 annual submissions) and provisional values (reported by Parties in their 2019 annual submissions). The final values will be made available upon completion of the associated reviews and the resolution of any questions of implementation.

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Abbreviations and acronyms

AAU	assigned amount unit
Annex A sources	sources listed in Annex A to the Kyoto Protocol
Annex B Party	Party included in Annex I ¹ with commitments inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol
CER	certified emission reduction
ERU	emission reduction unit
FMRL	forest management reference level
GHG	greenhouse gas
IE	included elsewhere
initial review report	report on the review of the report to facilitate 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

¹ The term “Party included in Annex I” is defined in Article I, para. 7, of the Kyoto Protocol.

I. Introduction

1. Document FCCC/KP/CMP/2019/6 provides an overview of the information available as at 19 October 2019 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 2019; and GHG emissions for 2016 and 2017.
2. This document includes the following, more detailed, information, available as at 19 October 2019,² for individual Annex B Parties:
 - (a) Key initial accounting parameters for the second commitment period under the Kyoto Protocol;
 - (b) Total GHG emissions from Annex A sources reported for 2016 and 2017, including indirect carbon dioxide emissions where reported;
 - (c) GHG emissions and removals in the base year, 2016 and 2017 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 2017 and 2018.
3. The annual information submitted in 2019 and in the reports to facilitate the calculation of the assigned amount for the second commitment period will be recorded in the compilation and accounting database after 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 on a voluntary basis by Parties included in Annex I³ that do not have commitments inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol⁴ (Japan, New Zealand and Russian Federation).
5. The information referred to in paragraphs 2 and 4 above is drawn from the initial review reports, other review reports⁵ and the annual submissions of GHG inventories and accounting information submitted by Parties, which are available on the UNFCCC website.⁶

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, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	566 786 410	t CO ₂ eq

² The accounting parameters presented in this document are based on the final values available in the initial review reports published as at 19 October 2019. Similarly, where the review of annual information submitted by Parties had been conducted, the associated values are presented as final; where it was pending the values are provisional.

³ As footnote 1 above.

⁴ Decision 1/CMP.8, annex I.

⁵ See document FCCC/SBSTA/2014/5, para. 84.

⁶ <https://unfccc.int/process/transparency-and-reporting/reporting-and-review-under-the-kyoto-protocol/second-commitment-period/initial-reports> and <https://unfccc.int/process-and-meetings/transparency-and-reporting/reporting-and-review-under-the-convention/greenhouse-gas-inventories-annex-i-parties/national-inventory-submissions-2019>.

<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 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, of the Doha Amendment for the second commitment period	4 511 619 826	t CO ₂ 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	-237 336 202	t CO ₂ 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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 148,163,361 t CO₂ eq.

Table 2

Australia's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		549 157 716		546 771 760	554 126 561
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		9 195 687		821 045	-3 278 256
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-27 581 970		-26 457 041	-25 615 792
FMRL (t CO ₂ eq per year)		4 700 000		4 700 000	4 700 000
Technical correction to FMRL (t CO ₂ eq per year)		-4 070 332		-3 540 508	-3 540 508
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	6 358 249	2 199 719	31 979 519	8 796 114	5 608 387

Table 3

Australia's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	11 925 019	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	1 484 884	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
Total	NO	NO	NO	13 409 903	NO	NO

Table 4

Australia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	NO	NO	15 846 066	NO	NO

Table 5

Australia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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			

<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	4 906 968	NO	NO
Total transactions	NO	NO	NO	4 906 968	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	804 165	NO	NO
External transactions	NO	NO	NO	2 470 805	NO	NO
Total transactions	NO	NO	NO	3 274 970	NO	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, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	78 855 136	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	405 712 317	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 7

Austria's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		79 672 644		79 596 526	82 261 886
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-1 585 089		-1 586 627	-1 636 576
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-3 270 259		-3 365 902	-3 863 984

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
FMRL (t CO ₂ eq per year)		-6 516 000		-6 516 000	-6 516 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	2 272 701	NO	NO
Entity holding accounts	NO	NO	NO	109 531	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	119 464	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
Total	NO	NO	NO	2 501 696	NO	NO

Table 9

Austria's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Voluntary cancellation account	NO	NO	NO	175 258	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
Total	NO	NO	NO	2 567 085	NO	NO

Table 10
Austria's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	1 703 067	NO	NO
Total transactions	NO	NO	NO	1 703 067	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	55 794	NO	NO
External transactions	NO	NO	NO	1 637 678	NO	NO
Total transactions	NO	NO	NO	1 693 472	NO	NO

IV. Belarus

10. The eligibility of Belarus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established⁷ as at 19 October 2019.

11. As at 19 October 2019, Belarus had not submitted its report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol, annual information on its GHG emissions and removals in 2016 and 2017 from LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol, or standard electronic format tables for the second commitment period.

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

⁷ 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 11
Belarus's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		91 541 587		91 582 885	93 959 644

V. Belgium

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

14. Tables 12–16 provide detailed information on Belgium's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

Parameter	Value	Unit
Total base-year emissions ^a	147 811 094	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	584 228 513	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 13
Belgium's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		117 727 113		115 783 177	114 539 902
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		740 720		652 544	639 479
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Net emissions or removals		-2 456 663		-1 316 401	-1 313 407
FMRL (t CO ₂ eq per year)		-2 499 000		-2 499 000	-2 499 000
Technical correction to FMRL (t CO ₂ eq per year)		NA		1 954 000	1 954 000
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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	3 267 881	NO	17 119 908	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
Total	NO	3 267 881	NO	17 160 158	NO	NO

Table 15
Belgium's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	3 267 881	NO	17 161 388	NO	NO

Table 16

Belgium's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	108 846	NO	NO
Total transactions	NO	NO	NO	108 846	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	107 616	NO	NO
Total transactions	NO	NO	NO	107 616	NO	NO

VI. Bulgaria

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

16. Tables 17–21 provide detailed information on Bulgaria's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	114 105 323	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment or in accordance with Article 4 of the Kyoto Protocol	80	per cent

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^b	222 945 983	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 18

Bulgaria's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		59 114 080		59 085 218	61 367 164
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-1 432 326		-1 593 762	-1 739 039
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-5 797 344		-7 348 317	-7 049 267
FMRL (t CO ₂ eq per year)		-7 950 000		-7 950 000	-7 950 000
Technical correction to FMRL (t CO ₂ eq per year)		23 000		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 2017 (final values)

<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	48 593	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					

<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
Total	NO	620 328	NO	48 593	NO	NO

Table 20

Bulgaria's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	620 328	NO	83 593	NO	NO

Table 21

Bulgaria's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

VII. Croatia

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

18. Tables 22–26 provide detailed information on Croatia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	31 204 631	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	162 271 086	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 23

Croatia's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		24 805 100		24 384 834	25 019 749
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-107 781		-211 524	-168 994

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-6 329 265		-6 288 760	-5 536 297
FMRL (t CO ₂ eq per year)		-6 289 000		-6 289 000	-6 289 000
Technical correction to FMRL (t CO ₂ eq per year)		904 831		904 831	904 831
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 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 25

Croatia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

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

<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
Total	NO	NO	NO	NO	NO	NO

Table 26

Croatia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

19. The eligibility of Cyprus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established as at 19 October 2019.

20. Tables 27–31 provide detailed information on Cyprus's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	5 627 236	t CO ₂ 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 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 ^b	47 450 128	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c 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 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		8 773 059		8 741 333	8 945 265
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-32 453		-36 082	-36 758
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 770		-22 622	-133 010
FMRL (t CO ₂ eq per year)		-157 000		-157 000	-157 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

<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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	NO	NO	NO

Table 30

Cyprus's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 31

Cyprus's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

22. Tables 32–36 provide detailed information on Czechia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	198 316 406	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	520 515 203	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 33

Czechia's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		130 348 690		130 508 901	129 383 525
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		–416 609		–518 881	–551 050

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 435 687		-4 387 425	-1 725 046
FMRL (t CO ₂ eq per year)		-4 686 000		-4 686 000	-4 686 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 35

Czechia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	NO	NO	19 649	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
Total	NO	NO	NO	19 649	NO	NO

Table 36

Czechia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	32 898	NO	NO
Total transactions	NO	NO	NO	32 898	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	13 249	NO	NO
Total transactions	NO	NO	NO	13 249	NO	NO

X. Denmark

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

24. Tables 37–41 provide detailed information on Denmark's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	70 801 910	t CO ₂ 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 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 ^b	269 377 890	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 8,807 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 38

Denmark's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		50 478 345		50 154 300	47 892 354
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		251 254		174 952	-576 825
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		677 952		677 725	337 490
FMRL (t CO ₂ eq per year)		409 000		409 000	409 000
Technical correction to FMRL (t CO ₂ eq per 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	5 234 946	4 429 365	5 470 608	3 643 709	3 204 351

Table 39

Denmark's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	280 409	NO	NO
Entity holding accounts	NO	NO	NO	673	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

<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
Total	NO	NO	NO	292 246	NO	NO

Table 40

Denmark's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	NO	NO	295 143	NO	NO

Table 41

Denmark's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	5 456	NO	NO
Total transactions	NO	NO	NO	5 456	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	NO	NO	NO
External transactions	NO	NO	NO	2 559	NO	NO
Total transactions	NO	NO	NO	2 559	NO	NO

XI. Estonia

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

26. Tables 42–46 provide detailed information on Estonia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	39 996 697	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	51 056 976	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 43

Estonia's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		19 667 249		19 664 974	20 879 879
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		46 897		130 125	65 211

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-4 117 226		-4 019 016	-3 089 982
FMRL (t CO ₂ eq per year)		-2 741 000		-2 741 000	-2 741 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 45
Estonia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

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

<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
Total	NO	NO	NO	NO	NO	NO

Table 46

Estonia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

28. Tables 47–51 provide detailed information on the European Union's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	5 875 692 700	t CO ₂ 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 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 ^b	15 813 089 338	t CO ₂ 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 ₂ eq
Limitation on the additions to the assigned amount of the European Union resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol	1 643 637 017	t CO ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 5,560,495 t CO₂ eq.

^b The assigned amount of the European Union (15,813,089,338 t CO₂ eq) is the difference between (1) the joint assigned amount of the European Union, its member States and Iceland, equalling 80 per cent of its base-year emissions as inscribed in the third column of Annex B in the Doha Amendment, multiplied by eight (37,604,433,280 t CO₂ eq) and (2) the sum of the individual assigned amounts of the 28 member States and Iceland (21,791,343,942 t CO₂ 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 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		4 300 059 071		4 312 736 609	4 332 683 595
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-13 619 089		-11 144 098	-12 966 459
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-402 669 199		-449 454 774	-417 696 434
FMRL (t CO ₂ eq per year)		-315 476 500		-315 476 000	-315 476 000
Technical correction to FMRL (t CO ₂ eq per year)		16 020 398		35 397 111	35 421 406
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	60 313 881	49 005 029	60 876 230	48 403 576	47 795 599

Table 49

The European Union's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	84 671 688	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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Voluntary cancellation account	NO	NO	NO	4 800 975	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
Total	NO	NO	NO	89 472 663	NO	NO

Table 50
The European Union's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	
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
Total	NO	NO	NO	112 288 794	NO	NO

Table 51
The European Union's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	30 340 809	NO	NO
Total transactions	NO	NO	NO	30 340 809	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	4 115 756	NO	NO
External transactions	NO	NO	NO	7 524 678	NO	NO
Total transactions	NO	NO	NO	11 640 434	NO	NO

XIII. Finland

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

30. Tables 52–56 provide detailed information on Finland's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	71 350 147	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	240 544 599	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 53

Finland's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		58 789 594		58 097 908	55 387 246
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		2 959 338		2 537 605	2 668 180

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-47 230 623		-38 776 249	-39 316 498
FMRL (t CO ₂ eq per year)		-20 466 000		-20 466 000	-20 466 000
Technical correction to FMRL (t CO ₂ eq per year)		-14 545 000		-10 939 000	-10 939 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol		NA	NA	NA	NA

Table 54

Finland's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	2 912 592	NO	8 502 116	NO	NO
Entity holding accounts	NO	4 625	NO	260 731	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	9 244	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
Total	NO	2 917 217	NO	8 772 091	NO	NO

Table 55

Finland's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	2 912 592	NO	9 226 849	NO	NO
Entity holding accounts	NO	4 625	NO	251 247	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	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
Total	NO	2 917 217	NO	9 504 918	NO	NO

Table 56

Finland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	790 858	NO	NO
Total transactions	NO	NO	NO	790 858	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	17 578	NO	NO
External transactions	NO	NO	NO	58 031	NO	NO
Total transactions	NO	NO	NO	75 609	NO	NO

XIV. France

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

32. Tables 57–61 provide detailed information on France's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	548 055 757	t CO ₂ 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 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 ^b	3 014 714 832	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 58

France's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		458 165 243		460 643 523	464 592 511
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		911 956		1 625 174	1 319 277
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–50 200 240		–47 977 975	–45 875 938
FMRL (t CO ₂ eq per year)		–67 410 000		–67 410 000	–67 410 000
Technical correction to FMRL (t CO ₂ eq per 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	NE, NO	NO	IE, NE, NO	IE, NE, NO

Table 59

France's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	131 855	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	31 468	NO	NO
Cancellation account for remaining units after carry-over	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>
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
Total	NO	NO	NO	163 323	NO	NO

Table 60

France's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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
Total	NO	NO	NO	508 246	NO	NO

Table 61

France's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	344 923	NO	NO
Total transactions	NO	NO	NO	344 923	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	17 908	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	17 908	NO	NO

XV. Germany

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

34. Tables 62–66 provide detailed information on Germany's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	1 253 599 336	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	3 592 699 888	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 63

Germany's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		909 404 499		911 049 006	906 611 464
Net emissions or removals from LULUCF activities under Article 3,		–4 794 209		–4 794 209	–5 010 451

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-55 023 952		-54 454 256	-55 694 910
FMRL (t CO ₂ eq per year)		-22 418 000		-22 418 000	-22 418 000
Technical correction to FMRL (t CO ₂ eq per year)		NE		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	36 918 548	38 440 460	36 918 548	36 750 533

Table 64

Germany's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	28 999	NO	1 569 475	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	1 668 235	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
Total	NO	28 999	NO	3 237 710	NO	NO

Table 65

Germany's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	750 300	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	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					
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
Total	NO	29 000	NO	6 266 249	NO	NO

Table 66

Germany's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	1	NO	7 368 752	NO	NO
Total transactions	NO	1	NO	7 368 752	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	444 676	NO	NO
External transactions	NO	NO	NO	4 340 213	NO	NO
Total transactions	NO	NO	NO	4 784 889	NO	NO

XVI. Greece

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

36. Tables 67–71 provide detailed information on Greece's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	107 564 136	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	480 791 166	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 68

Greece's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		91 607 402		91 697 733	95 420 782
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-81 792		-82 245	-27 733
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-1 918 215		-1 922 383	-1 952 175
FMRL (t CO ₂ eq per year)		-1 830 000		-1 830 000	-1 830 000
Technical correction to FMRL (t CO ₂ eq per year)		256 671		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 2017 (final values)

<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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	NO	NO	NO

Table 70

Greece's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	NO	NO	NO	NO	NO	NO

Table 71

Greece's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

38. Tables 72–76 provide detailed information on Hungary's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	109 574 819	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	434 486 280	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 73
Hungary's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		61 464 473		61 139 780	63 787 580
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-631 243		-900 770	-986 878
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-3 070 241		-3 070 241	-4 320 840
FMRL (t CO ₂ eq per year)		-1 000 349		-1 000 349	-1 000 349
Technical correction to FMRL (t CO ₂ eq per 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

Table 74
Hungary's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	3 872 580	NO	5 329 035	NO	NO
Entity holding accounts	NO	4 314	NO	7 641	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
Total	NO	3 876 894	NO	5 336 676	NO	NO

Table 75

Hungary's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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
Total	NO	3 876 894	NO	5 336 676	NO	NO

Table 76

Hungary's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	3 000	NO	99	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	3 000	NO	99	NO	NO

XVIII. Iceland

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

40. Tables 77–81 provide detailed information on Iceland's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	3 633 558	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	15 327 217	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 78

Iceland's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		4 669 337		4 639 913	4 754 644
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-232 585		-232 585	-258 386
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-91 619		-91 677	-86 777
FMRL (t CO ₂ eq per year)		-154 000		-154 000	-154 000
Technical correction to FMRL (t CO ₂ eq per 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	-595 956	-347 705	-575 526	-592 836

Table 79

Iceland's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	NO	NO	NO

Table 80

Iceland's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	NO	NO	NO	NO	NO	NO

Table 81

Iceland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

42. Tables 82–86 provide detailed information on Ireland's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	56 425 830	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	343 519 892	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 8,230 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 83

Ireland's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		61 596 488		61 270 202	60 743 725
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-3 655 096		-3 732 169	-3 435 446
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-600 059		-1 291 605	-918 882
FMRL (t CO ₂ eq per year)		-142 070		-142 070	-142 070
Technical correction to FMRL (t CO ₂ eq per year)		-571 350		-933 521	-933 521
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	7 276 178	6 598 542	6 837 777	6 289 278	6 577 029

Table 84

Ireland's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	NO	NO	NO
Entity holding accounts	NO	74 964	NO	5 255 000	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
Total	NO	74 964	NO	5 255 000	NO	NO

Table 85

Ireland's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
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
Total	NO	74 964	NO	5 255 000	176 508	NO

Table 86

Ireland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	176 508	NO
Total transactions	NO	NO	NO	NO	176 508	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

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

44. Tables 87–91 provide detailed information on Italy's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	521 920 601	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	2 410 291 421	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 88

Italy's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		427 861 993		432 119 011	427 707 847
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-6 328 585		-6 350 780	-3 301 967
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-29 110 271		-29 302 027	-14 118 035
FMRL (t CO ₂ eq per year)		-22 166 000		-22 166 000	-22 166 000
Technical correction to FMRL (t CO ₂ eq per 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	-1 362 304	-124 650	-1 004 708	-849 705

Table 89

Italy's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	698 870	NO	975 671	NO	NO
Entity holding accounts	NO	402 417	NO	3 123 716	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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	7 659	NO	5 367	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
Total	NO	1 108 946	NO	4 104 754	NO	NO

Table 90

Italy's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	NO	1 108 946	NO	4 360 943	NO	NO

Table 91

Italy's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	278 361	NO	NO
Total transactions	NO	NO	NO	278 361	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	302	NO	NO
External transactions	NO	NO	NO	22 172	NO	NO
Total transactions	NO	NO	NO	22 474	NO	NO

XXI. Kazakhstan

45. Kazakhstan's eligibility to participate in the flexibility mechanisms under the Kyoto Protocol is subject to the deposit of its instrument of acceptance of the Doha Amendment in accordance with decision 7/CMP.9, paragraph 1, and the resolution of the question of implementation in accordance with the final decision (dated 26 June 2019)⁸ of the enforcement branch of the Compliance Committee in accordance with decision 7/CMP.9, paragraph 5.

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

Table 92

Key initial accounting parameters under the Kyoto Protocol for Kazakhstan (provisional values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	371 295 113	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ^b	548 265 662	t CO ₂ 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 ₂ eq

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

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

⁸ See document CC-2019-1-6/Kazakhstan/EB, para. 6, and annex, para. 26(c). Available at <https://unfccc.int/sites/default/files/resource/Kazakhstan%20Final%20decision.pdf>.

Table 93

Kazakhstan's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		337 922 242		336 035 362	353 233 804
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-3 029 400		-3 029 400	
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-6 516 955		-6 516 955	
FMRL (t CO ₂ eq per year) ^a					
Technical correction to FMRL (t CO ₂ eq per year)		NA		NA	
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	3 409 267	-8 256 600	3 409 267	-8 256 600	

^a Kazakhstan has not 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.

47. As at 19 October 2019, Kazakhstan had not submitted standard electronic format tables for 2017 and 2018.

XXII. Latvia

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

49. Tables 94–98 provide detailed information on Latvia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

Parameter	Value	Unit
Total base-year emissions ^a	26 409 077	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	76 633 439	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 95

Latvia's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		11 306 386		11 286 487	11 325 325
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		38 123		194 977	192 556
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-3 553 153		-3 673 795	-4 612 602
FMRL (t CO ₂ eq per year)		-16 302 000		-16 302 000	-16 302 000
Technical correction to FMRL (t CO ₂ eq per 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, NO	NA, NO	NA	NA	NA

Table 96

Latvia's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
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
Total	NO	5 317	NO	21 550	NO	NO

Table 97

Latvia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	5 317	NO	21 550	NO	NO

Table 98

Latvia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

51. Tables 99–103 provide detailed information on Liechtenstein's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	231 554	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ₂ 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 ₂ eq

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

Table 100

Liechtenstein's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		188 037		187 684	193 623
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		4 149		4 445	4 280
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		–2 173		–2 173	–461
FMRL (t CO ₂ eq per year)		100		100	100
Technical correction to FMRL (t CO ₂ eq per 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 2017
(final values)

<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	209 603	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
Total	NO	NO	NO	209 603	NO	NO

Table 102
Liechtenstein's total quantities of Kyoto Protocol units by account type at the end of 2018
(provisional values)

<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					
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

<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 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
Total	NO	NO	NO	260 541	NO	NO

Table 103

Liechtenstein's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	50 938	NO	NO
Total transactions	NO	NO	NO	50 938	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

XXIV. Lithuania

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

53. Tables 104–108 provide detailed information on Lithuania's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	48 196 540	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	113 600 821	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 105

Lithuania's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		20 082 893		20 510 149	20 705 943
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-413 853		-413 723	-383 992
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-9 465 950		-6 734 285	-6 343 907
FMRL (t CO ₂ eq per year)		-4 552 000		-4 552 000	-4 552 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
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

<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 non-submission of certification report	NO	NO	NO	NO		NO
Total	NO	2 327 000	NO	246 966	NO	NO

Table 107

Lithuania's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	2 327 000	NO	246 966	NO	NO

Table 108

Lithuania's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

55. Tables 109–113 provide detailed information on Luxembourg's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	13 141 245	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	72 454 473	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 268,381 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 110

Luxembourg's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		10 041 738		10 051 955	10 236 084
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-129 858		-129 858	-128 985
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-390 230		-350 970	-240 992
FMRL (t CO ₂ eq per year)		-418 000		-418 000	-418 000
Technical correction to FMRL (t CO ₂ eq per 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 2017
(final values)**

<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	1 466 923	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
Total	NO	NO	NO	1 466 923	NO	NO

Table 112

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

<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	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

<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 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
Total	NO	NO	NO	1 484 841	NO	NO

Table 113

Luxembourg's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	17 918	NO	NO
Total transactions	NO	NO	NO	17 918	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

XXVI. Malta

56. The eligibility of Malta to participate in the flexibility mechanisms under the Kyoto Protocol had not been established as at 19 October 2019.

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

Table 114

Key initial accounting parameters under the Kyoto Protocol for Malta (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	1 974 638	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	9 299 769	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c 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 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		1 909 754		1 895 685	2 151 589
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		NO		NO	NO
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		NE, NO		NE, NO	NE, NO
FMRL (t CO ₂ eq per year)		-49 000		-49 000	-49 000
Technical correction to FMRL (t CO ₂ eq per 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	NE, NO	NE, NO

Table 116

Malta's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 117
Malta's total quantities of Kyoto Protocol units by account type at the end of 2018
(provisional values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 118
Malta's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

XXVII. Monaco

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

59. Tables 119–123 provide information on Monaco's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	99 319	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ₂ 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 ₂ eq

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

Table 120

Monaco's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		78 616		87 612	86 586
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		NO		NO	NO
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		NO		NO	NO
FMRL (t CO ₂ eq per year)		NA		NA	NA
Technical correction to FMRL (t CO ₂ eq per year)				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 2017 (final values)

<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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	NO	NO	NO

Table 122

Monaco's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
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
Total	NO	NO	NO	25 000	NO	NO

Table 123

Monaco's total transactions of Kyoto Protocol units in 2018 (provisional values)

<i>Transaction type</i>	<i>AUs</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	25 000	NO	NO
Total transactions	NO	NO	NO	25 000	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

60. 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.

61. Tables 124–128 provide detailed information on the initial accounting parameters of the Netherlands for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	223 950 669	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	924 777 902	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 752,270 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 125

The Netherlands' emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		195 241 560		195 835 044	193 712 968

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		527 839		633 024	700 552
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-1 319 625		-1 054 167	-990 038
FMRL (t CO ₂ eq per year)		-1 425 000		-1 425 000	-1 425 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	501 598	NO	NO
Entity holding accounts	NO	5 336 075	NO	2 923 456	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	123 312	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
Total	NO	5 346 075	NO	3 548 366	NO	NO

Table 127

The Netherlands' total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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
Total	NO	10 000	NO	3 785 277	NO	NO

Table 128

The Netherlands' total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	9 012 522	NO	NO
Total transactions	NO	NO	NO	9 012 522	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	196 361	NO	NO
External transactions	NO	5 336 075	NO	8 775 611	NO	NO
Total transactions	NO	5 336 075	NO	8 971 972	NO	NO

XXIX. Norway

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

63. Tables 129–133 provide detailed information on Norway's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and

removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	51 921 771	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ₂ 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 ₂ eq

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

Table 130

Norway's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		53 242 514		53 607 837	52 712 543
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		1 806 811		1 724 273	1 729 402
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals FMRL (t CO ₂ eq per year)		-28 396 132		-27 719 401	-28 914 537
Technical correction to FMRL (t CO ₂ eq per year)					
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	1 705 141	1 770 257	1 713 793	1 783 738	1 775 578

Table 131

Norway's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	738 305	NO	15 945 955	NO	NO
Entity holding accounts	NO	84 848	NO	619 315	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	151 128	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
Total	NO	823 153	NO	16 716 398	NO	NO

Table 132

Norway's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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
Total	NO	823 153	NO	22 244 586	NO	NO

Table 133

Norway's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	5 735 858	NO	NO
Total transactions	NO	NO	NO	5 735 858	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	25 506	NO	NO
External transactions	NO	NO	NO	207 670	NO	NO
Total transactions	NO	NO	NO	233 176	NO	NO

XXX. Poland

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

65. Tables 134–138 provide detailed information on Poland's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	580 020 010	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	1 583 938 824	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 135

Poland's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		396 995 789		399 122 535	413 781 401
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		2 689 574		2 689 539	-2 562 425

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-37 830 883		-37 960 948	-37 839 290
FMRL (t CO ₂ eq per year)		-27 133 000		-27 133 000	-27 133 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	37 556 760	NO	42 947 508	NO	NO
Entity holding accounts	NO	17 688	NO	17 949	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	702	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
Total	NO	37 574 448	NO	42 966 159	NO	NO

Table 137

Poland's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	37 556 760	NO	42 947 508	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	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
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
Total	NO	37 574 448	NO	42 966 159	NO	NO

Table 138

Poland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	17 949	NO	NO
External transactions	NO	NO	NO	NO	NO	NO
Total transactions	NO	NO	NO	17 949	NO	NO

XXXI. Portugal

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

67. Tables 139–143 provide detailed information on Portugal's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	65 028 094	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	429 581 969	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 4,276,759 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 140

Portugal's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		67 775 564		66 091 684	70 736 564
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-375 019		-375 019	1 471 221
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-2 104 248		-2 104 248	7 828 782
FMRL (t CO ₂ eq per year)		-6 830 000		-6 830 000	-6 830 000
Technical correction to FMRL (t CO ₂ eq per year)		3 286 492		3 286 492	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	255 650	4 795 150	255 650	253 801

Table 141

Portugal's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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					

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	NO	NO	NO

Table 142

Portugal's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	NO	NO	NO	NO	NO	NO

Table 143

Portugal's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

69. Tables 144–148 provide detailed information on Romania's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	304 920 568	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	656 059 490	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 145

Romania's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		118 231 770		114 272 297	113 795 945
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		7 730 262		7 540 904	7 532 857
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-27 867 177		-90 772 924	-88 646 676
FMRL (t CO ₂ eq per year)		-15 444 000		15 793 000	15 793 000
Technical correction to FMRL (t CO ₂ eq per year)		-3 665 254		NE	NE
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-1 698 592	-1 309 343	-1 698 592	-1 297 355	-1 330 603

Table 146

Romania's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

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
Total	NO	17 870 725	NO	8 692 615	NO	NO

Table 147

Romania's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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
Total	NO	17 870 725	NO	8 692 615	NO	NO

Table 148

Romania's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

71. Tables 149–153 provide detailed information on Slovakia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and

removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	74 271 511	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	202 268 939	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 150

Slovakia's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		41 037 121		42 153 867	43 316 448
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-494 431		-494 604	-486 715
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-5 092 825		-4 974 477	-4 892 023
FMRL (t CO ₂ eq per year)		-1 084 000		-1 084 000	-1 084 000
Technical correction to FMRL (t CO ₂ eq per year)		-1 214 000		-1 214 000	-1 164 000
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 2017 (final values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 152

Slovakia's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 153

Slovakia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

73. Tables 154–158 provide detailed information on Slovenia's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	20 327 584	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	99 425 782	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 155
Slovenia's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		17 747 874		17 681 281	17 453 495
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		447 029		236 501	238 093
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-5 013 143		-1 512 374	-724 792
FMRL (t CO ₂ eq per year)		-3 171 000		-3 171 000	-3 171 000
Technical correction to FMRL (t CO ₂ eq per 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 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 157
Slovenia's total quantities of Kyoto Protocol units by account type at the end of 2018
(provisional values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 158
Slovenia's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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

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

75. Tables 159–163 provide detailed information on Spain's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	283 361 698	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	1 766 877 232	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 160

Spain's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		324 706 553		326 383 407	340 230 876
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-9 742 775		-6 046 246	-5 513 633
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-28 556 598		-29 449 562	-29 930 426
FMRL (t CO ₂ eq per year)		-23 100 000		-23 100 000	-23 100 000
Technical correction to FMRL (t CO ₂ eq per year)		NO		NO	NO
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	-869 552	-2 445 938	-95 022	-2 757 602	-3 016 725

Table 161

Spain's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

<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	15 810 683	NO	NO
Entity holding accounts	NO	308 658	NO	1 002 315	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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	19 366	NO	217 874	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
Total	NO	2 170 468	NO	17 030 872	NO	NO

Table 162

Spain's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	NO	2 170 468	NO	17 727 232	197 224	NO

Table 163

Spain's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	718 676	197 224	NO
Total transactions	NO	NO	NO	718 676	197 224	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	287 616	NO	NO
External transactions	NO	NO	NO	22 316	NO	NO
Total transactions	NO	NO	NO	309 932	NO	NO

XXXVI. Sweden

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

77. Tables 164–168 provide detailed information on Sweden's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	72 057 123	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	315 554 578	t CO ₂ 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 ^c	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 ₂ eq

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

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 165
Sweden's emissions and removals of greenhouse gases in 2016 and 2017

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
Emissions of GHGs from Annex A sources		52 892 716		52 942 814	52 660 267
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		1 198 622		467 829	13 683
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-46 396 082		-49 924 453	-49 168 637
FMRL (t CO ₂ eq per year)		-41 336 099		-41 336 099	-41 336 099
Technical correction to FMRL (t CO ₂ eq per year)		9 156 037		9 339 936	9 339 936
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 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	8 922 291	NO	NO
Entity holding accounts	NO	NO	NO	2 321 191	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	97 517	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
Total	NO	NO	NO	11 340 999	NO	NO

Table 167
Sweden's total quantities of Kyoto Protocol units by account type at the end of 2018
(provisional values)

<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	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
Total	NO	NO	NO	14 665 113	NO	NO

Table 168
Sweden's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	6 380 164	NO	NO
Total transactions	NO	NO	NO	6 380 164	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	5 296 540	NO	NO
External transactions	NO	NO	NO	3 056 050	NO	NO
Total transactions	NO	NO	NO	8 352 590	NO	NO

XXXVII. Switzerland

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

79. Tables 169–173 provide detailed information on Switzerland's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and

removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	53 706 729	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ₂ 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 ₂ eq

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

Table 170

Switzerland's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		48 294 435		48 265 806	47 241 903
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		131 835		127 982	146 235
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-2 433 607		-2 975 099	-2 902 215
FMRL (t CO ₂ eq per year)		220 000		220 000	220 000
Technical correction to FMRL (t CO ₂ eq per year)		-1 900 581		-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 2017 (final values)

<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	1 723 552	NO	NO
Entity holding accounts	NO	NO	NO	17 944 551	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		

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Non-compliance cancellation account	NO	NO	NO	NO		
Voluntary cancellation account	NO	NO	NO	1 988 430	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
Total	5 794 523	NO	NO	21 656 533	NO	NO

Table 172

Switzerland's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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	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

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
Total	5 794 523	NO	NO	28 248 056	NO	NO

Table 173

Switzerland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	17 573 512	NO	NO
Total transactions	NO	NO	NO	17 573 512	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	NO	NO	1 691 468	NO	NO
External transactions	NO	NO	NO	10 981 989	NO	NO
Total transactions	NO	NO	NO	12 673 457	NO	NO

XXXVIII. Ukraine

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

81. Tables 174–178 provide detailed information on Ukraine's initial accounting parameters for the second commitment period under the Kyoto Protocol, GHG emissions and removals, 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 (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	937 954 204	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ₂ 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 ₂ 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 ₂ eq

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

Table 175

Ukraine's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		338 636 090		335 115 702	320 625 820
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol		-1 242 191		-2 448 611	-2 461 397

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
(afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-67 560 979		-50 829 587	-50 639 908
FMRL (t CO ₂ eq per year)		-48 700 000		-48 700 000	-48 700 000
Technical correction to FMRL (t CO ₂ eq per year)		-13 435 000		-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 2017 (final values)

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
Total	NO	NO	NO	NO	NO	NO

Table 177

Ukraine's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

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

<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
Total	NO	NO	NO	NO	NO	NO

Table 178

Ukraine's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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 Ireland⁹

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

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

⁹ In 2017, the geographical coverage of the United Kingdom's inventory changed to exclude the territory of Bermuda.

Table 179

Key initial accounting parameters under the Kyoto Protocol for the United Kingdom of Great Britain and Northern Ireland (final values)

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Total base-year emissions ^a	803 191 325	t CO ₂ eq
Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment 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 ^b	2 744 937 332	t CO ₂ 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 ^c	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 ₂ eq

^a The total GHG emissions in the base year defined under the Kyoto Protocol for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment, including emissions from conversion of forests (deforestation) of 246,048 t CO₂ eq.

^b The assigned amount of each European Union member State and Iceland is equal to the emission level agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

^c This difference is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland.

Table 180

The United Kingdom of Great Britain and Northern Ireland's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		485 495 645		486 256 747	473 569 767
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-706 997		-528 188	-1 001 713
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-22 100 801		-17 985 438	-17 478 273
FMRL (t CO ₂ eq per year)		-8 268 000		-8 268 000	-8 268 000
Technical correction to FMRL (t CO ₂ eq per year)		-14 515 000		-9 384 000	-9 384 000
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	7 641 808	6 516 465	7 632 367	6 931 583	6 799 754

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 2017 (final values)

<i>Account type</i>	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>iCERs</i>	<i>ICERs</i>
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	2	NO	2 887 912	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	655 749	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
Total	NO	2	NO	3 543 661	NO	NO

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 2018 (provisional values)

<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	

<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
Total	NO	90 638 091	NO	25 939 911	NO	NO

Table 183

The United Kingdom of Great Britain and Northern Ireland's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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	5 336 075	NO	7 762 983	NO	NO
Total transactions	NO	5 336 075	NO	7 762 983	NO	NO
<i>Subtractions</i>						
Internal transactions	NO	498 162	NO	626 770	NO	NO
External transactions	NO	1	NO	11 249 038	NO	NO
Total transactions	NO	498 163	NO	11 875 808	NO	NO

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

84. 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 (i.e. Japan, New Zealand and Russian Federation) shall continue to report information on LULUCF activities under Article 3, paragraphs 3 and 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 as well as information reported by them on a voluntary basis for transparency purposes.

A. Japan

85. Tables 184–187 provide detailed information on Japan's GHG emissions and removals, 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 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		1 306 670 175		1 307 853 917	1 291 748 430
Net emissions or removals from LULUCF activities under Article 3,		909 489		538 346	277 285

Parameter	Emissions/removals of GHGs (t CO ₂ eq)				
	Final values (2018 submission)		Provisional values (2019 submission)		
	Base year	2016	Base year	2016	2017
paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)					
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-46 861 952		-46 463 198	-46 135 042
FMRL (t CO ₂ eq per year)		0		0	0
Technical correction to FMRL (t CO ₂ eq per year)		1 590 200		1 581 361	1 723 934
Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol	11 020 905	3 178 559	11 043 649	3 265 706	2 967 475

Table 185

Japan's total quantities of Kyoto Protocol units by account type at the end of 2017 (final values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	316 130	NO	NO
Entity holding accounts	NO	NO	NO	898 302	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
Total	NO	NO	NO	1 214 432	NO	NO

Table 186

Japan's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

Account type	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding accounts	NO	NO	NO	399 055	NO	NO

<i>Account type</i>	<i>AUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>ICERs</i>
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
Total	NO	NO	NO	1 351 640	NO	NO

Table 187

Japan's total transactions of Kyoto Protocol units in 2018 (provisional values)

<i>Transaction type</i>	<i>AUs</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	137 208	NO	NO
Total transactions	NO	NO	NO	137 208	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

B. New Zealand

86. Tables 188–192 provide detailed information on New Zealand's initial accounting parameters for the second commitment period under the Kyoto Protocol,¹⁰ GHG emissions and removals, holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

¹⁰ Reported in its report to facilitate the calculation of its emissions budget for the period 2013–2020, containing GHG inventory data for its base year and reviewed pursuant to document FCCC/SBSTA/2014/5, para. 84.

Table 188

Key initial accounting parameters under the Kyoto Protocol for New Zealand (voluntarily reported values)

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

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

Table 189

New Zealand's emissions and removals of greenhouse gases in 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		78 726 918		79 133 269	80 850 605
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		-14 710 873		-15 759 916	-15 953 010
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-14 858 115		-15 731 400	-14 553 907
FMRL (t CO ₂ eq per year)		11 150		11 150	11 150
Technical correction to FMRL (t CO ₂ eq per year)		-17 500		-20 570	-20 570
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 2017 (final values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 191

New Zealand's total quantities of Kyoto Protocol units by account type at the end of 2018 (provisional values)

<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
Total	NO	NO	NO	NO	NO	NO

Table 192

New Zealand's total transactions of Kyoto Protocol units in 2018 (provisional values)

<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>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

C. Russian Federation

87. 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 2016 and 2017

<i>Parameter</i>	<i>Emissions/removals of GHGs (t CO₂ eq)</i>				
	<i>Final values (2018 submission)</i>		<i>Provisional values (2019 submission)</i>		
	<i>Base year</i>	<i>2016</i>	<i>Base year</i>	<i>2016</i>	<i>2017</i>
Emissions of GHGs from Annex A sources		2 643 816 894		2 097 476 836	2 155 470 669
Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation)		26 110		-728 670	-1 575 529
Forest management under Article 3, paragraph 4, of the Kyoto Protocol					
Net emissions or removals		-517 508 090		-510 311 027	-503 057 189
FMRL (t CO ₂ eq per year)				-116 300 000	-116 300 000
Technical correction to FMRL (t CO ₂ eq per 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