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**Annual compilation and accounting report for Annex B
Parties under the Kyoto Protocol for 2018**

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 as contained in annex I to decision 1/CMP.8. It also contains annual information on anthropogenic greenhouse gas (GHG) emissions in 2015 and 2016 from sources listed in Annex A to the Kyoto Protocol; GHG emissions and removals in 2015 and 2016 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. This document contains both final values (from the reviews of the 2017 annual submissions and of the reports to facilitate the calculation of the assigned amount for the second commitment period) and provisional values (from the 2018 annual submissions and the reports to facilitate the calculation of the assigned amount for the second commitment period, both as reported by Parties). 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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I. Introduction

1. Document FCCC/KP/CMP/2018/5 provides an overview of the information available as at 31 August 2018 on annual accounting parameters for the second commitment period under the Kyoto Protocol for Parties included in Annex I¹ with commitments inscribed in the third column of the table in Annex B in the Doha Amendment to the Kyoto Protocol (Annex B Parties) as contained in annex I to decision 1/CMP.8 (hereinafter rather to as the Doha Amendment); transactions and holdings of Kyoto Protocol units reported in 2018; and greenhouse gas (GHG) emissions for 2015 and 2016.

2. This document includes the following, more detailed, information, available as at 31 August 2018,² for individual Annex B Parties:

(a) Key initial accounting parameters for the second commitment period under the Kyoto Protocol;

(b) Total GHG emissions from the sources listed in Annex A to the Kyoto Protocol reported for 2015 and 2016, including indirect carbon dioxide emissions where reported;

(c) GHG emissions and removals in the base year, 2015 and 2016 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;

(d) Transactions and holdings of Kyoto Protocol units as at 31 December 2016 and 2017.

3. The annual information submitted in 2018 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 the completion of the associated review processes and the resolution of any questions of implementation.

4. This document also contains relevant information reported in accordance with decision 2/CMP.8, paragraph 4, and decision 3/CMP.11, paragraph 14, and other information reported on a voluntary basis by Parties included in Annex I that do not have commitments inscribed in the third column of Annex B in the Doha Amendment (Japan, New Zealand and Russian Federation).

5. The information referred to in paragraphs 2 and 4 above is based on initial reports, initial review reports and annual submissions of GHG inventories and accounting information submitted by Parties and available on the UNFCCC website.³

II. Australia

6. Australia met all the eligibility criteria and became eligible to participate in all the flexibility mechanisms under the Kyoto Protocol on 11 July 2009.

7. Tables 1–5 provide detailed information on Australia’s initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and

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

² The accounting parameters presented in this document are based on the final values available in the initial review reports published as at 31 August 2018; where initial review reports had not been published, the accounting parameters are based, where available, on the values contained in the reports to facilitate the calculation of the assigned amount for the second commitment period as reported by Parties. Similarly, where the review of annual information submitted by Parties has been conducted, the associated values are presented as final; where it is still pending, the values are provisional.

³ <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-2018>.

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

Table 1

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|---------------|----------------------|
| Total base-year emissions ^a | 566 786 410 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 99.5 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, 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 greenhouse gas 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 the conversion of forests (deforestation) of 148,163,361 t CO₂ eq.

Table 2

Australia's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 533 282 713 | | 537 550 854 | 549 157 716 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 18 523 846 | | 6 345 015 | 9 195 687 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -18 393 558 | | -17 944 944 | -27 581 970 |
| 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) | | -4 335 723 | | -4 070 332 | -4 070 332 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | 7 144 668 | 4 437 518 | 6 358 249 | 4 352 253 | 2 199 719 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 3

Australia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 8 035 002 | NO | NO |
| Entity holding accounts | NO | NO | NO | NO | NO | NO |
| Retirement account | NO | NO | NO | NO | NO | NO |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|--|-------------|-------------|-------------|------------------|--------------|--------------|
| Previous period surplus reserve account | NO | | | | | |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation account | NO | NO | NO | NO | | |
| Voluntary cancellation account | NO | NO | NO | 304 692 | 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 | 8 339 694 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 4
Australia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 | | | | | |
| 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 | 13 409 903 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 5

Australia's total transactions of Kyoto Protocol units in 2017 (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 | 6 492 374 | NO | NO |
| Total transactions | NO | NO | NO | 6 492 374 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 1 180 192 | NO | NO |
| External transactions | NO | NO | NO | 1 422 165 | NO | NO |
| Total transactions | NO | NO | NO | 2 602 357 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

III. Austria

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

9. Tables 6–10 provide detailed information on Austria's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 6

Key initial accounting parameters under the Kyoto Protocol for Austria (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 78 850 807 | | 78 855 710 | 79 672 644 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -1 553 118 | | -1 546 982 | -1 585 089 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -3 851 106 | | -3 517 846 | -3 270 259 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 8

Austria's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|---|------|------|------|---------|-------|-------|
| Party holding accounts | NO | NO | NO | 5 241 | NO | NO |
| Entity holding accounts | NO | NO | NO | 440 053 | 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 |

| <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 | 564 758 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 9

Austria's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 2 272 701 | NO | NO |
| Entity holding accounts | NO | NO | NO | 109 531 | NO | NO |
| Retirement account | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 10

Austria's total transactions of Kyoto Protocol units in 2017 (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> | | | | | | |

| <i>Transaction type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|-------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Internal transactions | | NO | NO | | | |
| External transactions | NO | NO | NO | 418 310 | NO | NO |
| Total transactions | NO | NO | NO | 418 310 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 748 832 | NO | NO |
| Total transactions | NO | NO | NO | 748 832 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

IV. Belarus

10. The eligibility of Belarus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established⁴ as at 31 August 2018.

11. As at 31 August 2018 Belarus had not yet submitted its report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol or annual information on its GHG emissions and removals in 2015 and 2016 from land use, land-use change and forestry activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol.

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

Table 11

Belarus's emissions/removals of greenhouse gases in 2015 and 2016^a

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|--|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 89 607 643 | | 90 170 934 | 91 541 587 |

^a As at 31 August 2018 Belarus had not yet submitted annual information on its greenhouse gas emissions and removals in 2015 and 2016 from land use, land-use change and forestry activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol.

13. Also as at 31 August 2018 Belarus had not yet submitted standard electronic format tables for the second commitment period of the Kyoto Protocol.

V. Belgium

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

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

⁴ See decision 11/CMP.1, annex, paragraphs 2 and 3, in conjunction with decision 1/CMP.8; decision 9/CMP.1, annex, paragraphs 21 and 22; and decision 3/CMP.1, annex, paragraphs 31 and 32.

Table 12

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|--------------|----------------------|
| 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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 117 443 259 | | 117 584 429 | 117 727 113 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 929 027 | | 753 873 | 740 720 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -3 371 977 | | -2 464 300 | -2 456 663 |
| 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 | | NA | NA |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 14

Belgium's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

| <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 | 3 267 881 | NO | 17 037 025 | 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 | 17 077 275 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 15
Belgium's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|---|-------------|------------------|-------------|-------------------|--------------|--------------|
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 16

Belgium's total transactions of Kyoto Protocol units in 2017 (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 | 300 048 | NO | NO |
| Total transactions | NO | NO | NO | 300 048 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 217 165 | NO | NO |
| Total transactions | NO | NO | NO | 217 165 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

VI. Bulgaria

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

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

Table 17

Key initial accounting parameters under the Kyoto Protocol for Bulgaria (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 61 482 753 | | 61 747 956 | 59 059 734 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -1 223 775 | | -1 219 711 | -1 432 326 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -5 836 848 | | -5 836 848 | -5 797 344 |
| FMRL (t CO ₂ eq per year) | | -8 168 000 | | -7 950 000 | -7 950 000 |
| Technical correction to FMRL (t CO ₂ eq per year) | | 23 000 | | 23 000 | 23 000 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | NA | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 19

Bulgaria's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

| <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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 20

Bulgaria's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 | | | | | |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 21
Bulgaria's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

VII. Croatia

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

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

Table 22
Key initial accounting parameters under the Kyoto Protocol for Croatia (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|------------------------------------|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from | | 23 502 150 | | 24 188 623 | 24 304 160 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| sources listed in Annex A to the Kyoto Protocol | | | | | |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -187 041 | | 3 862 | -107 781 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -5 686 467 | | -6 366 783 | -6 329 265 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 24

Croatia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 25

Croatia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 26

Croatia's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

VIII. Cyprus

20. The eligibility of Cyprus to participate in the flexibility mechanisms under the Kyoto Protocol had not been established⁵ as at 31 August 2018.

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

Table 27

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|--------------|----------------------|
| Total base-year emissions ^a | 5 627 236 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 8 466 671 | | 8 327 586 | 8 773 059 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | NE, NO | | -37 196 | -32 453 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | IE, NE, NO | | -125 706 | -4 770 |
| FMRL (t CO ₂ eq per year) | | | | -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) | NA, NE, NO | NA, NE, NO | NO | NO | NO |

⁵ See decision 11/CMP.1, annex, paragraphs 2 and 3, in conjunction with decision 1/CMP.8; decision 9/CMP.1, annex, paragraphs 21 and 22; and decision 3/CMP.1, annex, paragraphs 31 and 32.

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------|--------------------------------------|------|------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| management) under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |

Abbreviations: FMRL = forest management reference level, IE = included elsewhere, LULUCF = land use, land-use change and forestry, NA = not applicable, NE = not estimated, NO = not occurring.

Table 29

Cyprus's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 30

Cyprus's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 31

Cyprus's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

IX. Czechia

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

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

Table 32

Key initial accounting parameters under the Kyoto Protocol for Czechia (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 127 925 530 | | 128 419 118 | 130 348 690 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -409 640 | | -413 878 | -416 609 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -5 075 556 | | -5 918 145 | -4 435 687 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 34

Czechia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 35

Czechia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|---|-------------|-------------|-------------|-------------|--------------|--------------|
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 36

Czechia's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

X. Denmark

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

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

Table 37

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|--------------|----------------------|
| Total base-year emissions ^a | 70 801 910 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 8,807 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 48 331 139 | | 48 501 858 | 50 478 345 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -354 863 | | -354 863 | 251 254 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | 667 734 | | 667 734 | 677 952 |
| 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 | 5 348 167 | 3 825 874 | 5 234 946 | 3 895 270 | 4 429 365 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 39

Denmark's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|--|------|------|------|---------|-------|-------|
| Party holding accounts | NO | NO | NO | 209 438 | NO | NO |
| Entity holding accounts | NO | NO | NO | 10 343 | 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 quarter 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 | 230 945 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 40
Denmark's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 41

Denmark's total transactions of Kyoto Protocol units in 2017 (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 | 77 456 | NO | NO |
| Total transactions | NO | NO | NO | 77 456 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 16 155 | NO | NO |
| Total transactions | NO | NO | NO | 16 155 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XI. Estonia

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

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

Table 42

Key initial accounting parameters under the Kyoto Protocol for Estonia (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|------------------------------------|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from | | 18 040 485 | | 18 048 938 | 19 627 042 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| sources listed in Annex A to the Kyoto Protocol | | | | | |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 6 811 | | 72 196 | 46 897 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -3 518 521 | | -3 906 684 | -4 117 226 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NE = not estimated.

Table 44

Estonia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 45

Estonia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 46

Estonia's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XII. European Union

28. 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.

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

Table 47

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|----------------|----------------------|
| Total base-year emissions ^a | 5 875 692 700 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 greenhouse gas 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 the 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 the table in Annex B in the Doha Amendment to the Kyoto Protocol (annex I to decision 1/CMP.8), multiplied by eight (37,604,433,280 t CO₂ eq) and (2) the sum of the individual assigned amounts of the 28 member States and Iceland (21,791,343,942 tCO₂ eq) determined in line with the terms of the joint fulfilment agreement.

Table 48

The European Union's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|---------------|---|---------------|---------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 4 317 434 934 | | 4 326 839 685 | 4 300 059 071 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -18 796 396 | | -20 480 092 | -13 619 089 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -407 414 316 | | -414 992 597 | -402 669 199 |
| FMRL (t CO ₂ eq per year) | | -315 476 000 | | -315 476 500 | -315 476 500 |
| Technical correction to FMRL (t CO ₂ eq per year) | | 24 765 075 | | 17 234 398 | 16 020 398 |
| Net emissions or removals from LULUCF activities (excluding forest) | 60 123 663 | 49 412 907 | 60 313 881 | 49 865 127 | 49 005 029 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------|--------------------------------------|------|------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| management) under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 49

The European Union's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|--|-----------|-----------|-----------|-------------------|-----------|-----------|
| Party holding accounts | NO | NO | NO | 65 538 389 | 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 | 1 367 208 | 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 | 66 905 597 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 50

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

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|--|------|------|------|------------|-------|-------|
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 51

The European Union's total transactions of Kyoto Protocol units in 2017 (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 | 37 653 943 | NO | NO |
| Total transactions | NO | NO | NO | 37 653 943 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 3 433 767 | NO | NO |
| External transactions | NO | NO | NO | 15 086 877 | NO | NO |
| Total transactions | NO | NO | NO | 18 520 644 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XIII. Finland

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

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

Table 52

Key initial accounting parameters under the Kyoto Protocol for Finland (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 55 559 213 | | 55 399 821 | 58 789 594 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 2 923 614 | | 3 565 304 | 2 959 338 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -49 312 939 | | -51 314 834 | -47 230 623 |
| 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) | | -13 582 000 | | -14 545 000 | -14 545 000 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | NA | | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 54

Finland's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 1 321 187 | NO | NO |
| Entity holding accounts | NO | NO | NO | 67 785 | 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 | 3 487 | 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 | 1 392 459 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 55
Finland's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 | |

| <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 | 2 917 217 | NO | 8 772 091 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 56

Finland's total transactions of Kyoto Protocol units in 2017 (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 | 929 353 | NO | NO |
| Total transactions | NO | NO | NO | 929 353 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 5 757 | NO | NO |
| External transactions | NO | NO | NO | 346 506 | NO | NO |
| Total transactions | NO | NO | NO | 352 263 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XIV. France

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

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

Table 57

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|---------------|----------------------|
| Total base-year emissions ^a | 548 055 757 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 458 317 316 | | 458 059 989 | 458 165 243 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 1 341 547 | | 1 187 191 | 911 956 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -48 864 799 | | -54 975 165 | -50 200 240 |
| 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 | NE, NO | NE, NO |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NE = not estimated, NO = not occurring.

Table 59

France's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 4 638 | 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 | 30 621 | 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 | 35 259 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 60

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 61

France's total transactions of Kyoto Protocol units in 2017 (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> | | | | | | |

| <i>Transaction type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|-------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Internal transactions | | NO | NO | | | |
| External transactions | NO | NO | NO | 128 064 | NO | NO |
| Total transactions | NO | NO | NO | 128 064 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 847 | NO | NO |
| External transactions | NO | NO | NO | NO | NO | NO |
| Total transactions | NO | NO | NO | 847 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XV. Germany

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

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

Table 62

Key initial accounting parameters under the Kyoto Protocol for Germany (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|--|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 901 931 512 | | 906 751 848 | 909 404 499 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -4 593 882 | | -4 593 897 | -4 794 209 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -54 853 163 | | -54 648 826 | -55 023 952 |
| 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 | | NE | NE |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | 38 440 460 | 36 815 559 | 38 440 460 | 36 815 748 | 36 918 548 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NE = not estimated.

Table 64
Germany's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 542 954 | 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 | 836 573 | 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 | 1 379 527 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 65

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 66

Germany's total transactions of Kyoto Protocol units in 2017 (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 | 28 999 | NO | 3 763 731 | NO | NO |
| Total transactions | NO | 28 999 | NO | 3 763 731 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 831 662 | NO | NO |
| External transactions | NO | NO | NO | 1 905 548 | NO | NO |
| Total transactions | NO | NO | NO | 2 737 210 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XVI. Greece

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

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

Table 67

Key initial accounting parameters under the Kyoto Protocol for Greece (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 95 715 099 | | 95 310 025 | 91 607 402 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -79 510 | | -79 510 | -81 792 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -2 028 152 | | -1 949 271 | -1 918 215 |
| 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) | | 91 976 | | 256 671 | 256 671 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | NA | NA | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 69

**Greece's total quantities of Kyoto Protocol units by account type at the end of 2016
(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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 70

**Greece's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | | | | | |

| <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 | NO | NO | NO | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 71

Greece's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XVII. Hungary

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

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

Table 72

Key initial accounting parameters under the Kyoto Protocol for Hungary (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 to the Kyoto Protocol 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 | 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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 61 170 949 | | 61 010 441 | 61 464 473 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -1 000 469 | | -743 316 | -631 243 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -4 343 992 | | -4 347 190 | -3 070 241 |
| FMRL (t CO ₂ eq per year) | | -1 000 000 | | -1 000 349 | -1 000 349 |
| Technical correction to FMRL (t CO ₂ eq per year) | | -40 000 | | -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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 74

Hungary's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | | |

| <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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 75

Hungary's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 3 872 580 | 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 |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 76

Hungary's total transactions of Kyoto Protocol units in 2017 (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 | 9 647 | NO | NO |
| Total transactions | NO | NO | NO | 9 647 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 9 647 | NO | NO |
| Total transactions | NO | NO | NO | 9 647 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XVIII. Iceland

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

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

Table 77

Key initial accounting parameters under the Kyoto Protocol for Iceland (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-----------|--------------------------------------|-----------|-----------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 4 557 174 | | 4 748 615 | 4 669 337 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -251 138 | | -226 785 | -232 585 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -82 237 | | -86 818 | -91 619 |
| FMRL (t CO ₂ eq per year) | | -154 000 | | -154 000 | -154 000 |
| Technical correction to FMRL (t CO ₂ eq per year) | | NE | | 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 | -569 581 | -347 705 | -569 540 | -595 956 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NE = not estimated.

Table 79

Iceland's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | |

| <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 | NO | NO | NO | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 80

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 81

Iceland's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XIX. Ireland

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

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

Table 82

Key initial accounting parameters under the Kyoto Protocol for Ireland (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 8,230 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|--|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 59 878 213 | | 59 426 497 | 61 545 821 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and | | -3 536 298 | | -3 536 298 | -3 655 096 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|--|---|-----------|--------------------------------------|-----------|-----------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| deforestation) | | | | | |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -529 689 | | -529 689 | -600 059 |
| FMRL (t CO ₂ eq per year) | | -142 070 | | -142 070 | -142 070 |
| Technical correction to FMRL (t CO ₂ eq per year) | | -470 854 | | -571 350 | -571 350 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | 7 102 695 | 5 799 415 | 7 276 178 | 6 644 490 | 6 598 542 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 84

Ireland's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 85
Ireland's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 86
Ireland's total transactions of Kyoto Protocol units in 2017 (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 | 115 965 | NO | NO |
| Total transactions | NO | NO | NO | 115 965 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 115 965 | NO | NO |
| Total transactions | NO | NO | NO | 115 965 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XX. Italy

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

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

Table 87

Key initial accounting parameters under the Kyoto Protocol for Italy (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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 433 024 539 | | 432 878 084 | 427 861 993 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -6 829 155 | | -6 819 810 | -6 328 585 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -31 551 669 | | -32 464 610 | -29 110 271 |
| 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) | | NA | | -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 | -356 299 | -124 650 | -356 299 | -1 362 304 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 89

**Italy's total quantities of Kyoto Protocol units by account type at the end of 2016
(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 | 410 076 | NO | 2 862 425 | 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 | 1 108 946 | NO | 3 838 096 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 90

**Italy's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | 975 671 | 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 | | |
| 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 | | | | | |

| <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 | 1 108 946 | NO | 4 104 754 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 91

Italy's total transactions of Kyoto Protocol units in 2017 (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 | 647 472 | NO | NO |
| Total transactions | NO | NO | NO | 647 472 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | 7 659 | NO | 5 367 | NO | NO |
| External transactions | NO | NO | NO | 387 635 | NO | NO |
| Total transactions | NO | 7 659 | NO | 393 002 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXI. Kazakhstan

46. The eligibility of Kazakhstan to participate in the flexibility mechanisms under the Kyoto Protocol had not been established⁶ as at 31 August 2018.

47. Tables 92–94 provide detailed information on Kazakhstan's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals and the holdings of Kyoto Protocol units by account type in 2016.

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 | 389 104 468 | t CO ₂ eq |
| Quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 95 | per cent |

⁶ See decision 11/CMP.1, annex, paragraphs 2 and 3, in conjunction with decision 1/CMP.8; decision 9/CMP.1, annex, paragraphs 21 and 22; and decision 3/CMP.1, annex, paragraphs 31 and 32.

| <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 | 2 957 193 957 | 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 | NA | |
| Limitation on the additions to Kazakhstan's assigned amount resulting from forest management under Article 3, paragraph 4, of the Kyoto Protocol | Value not reported | |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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.

Table 93

Kazakhstan's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 298 069 639 | | 323 712 034 | 329 066 113 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -343 567 | | -3 113 000 | -3 273 233 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals FMRL (t CO ₂ eq per year) ^a | | -10 758 874 | | -6 828 207 | -5 529 155 |
| 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 | 2 882 000 | -19 961 333 | 3 409 633 | -8 290 333 | -8 191 333 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

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

Table 94

Kazakhstan's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | | |

| <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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

48. As at 31 August 2018 Kazakhstan had not yet submitted standard electronic format tables for the year 2017.

XXII. Latvia

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

50. Tables 95–99 provide detailed information on Latvia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 95

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

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|--------------|----------------------|
| 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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA= not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 96

Latvia's emissions/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 11 319 390 | | 11 334 662 | 11 306 386 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 1 679 445 | | 44 150 | 38 123 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -2 534 435 | | -2 452 245 | -3 553 153 |
| 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, NO | NA, NO | NA, NO |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NO = not occurring.

Table 97

Latvia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|---|-------------|--------------|-------------|---------------|--------------|--------------|
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 98
Latvia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 99
Latvia's total transactions of Kyoto Protocol units in 2017 (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 |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXIII. Liechtenstein

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

52. Tables 100–104 provide detailed information on Liechtenstein's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 100

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 84 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period | 1 556 044 | t CO 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 greenhouse gas 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 101

Liechtenstein's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 199 389 | | 198 592 | 188 037 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 4 306 | | 4 162 | 4 149 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -1 826 | | -262 | -2 173 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|--|---|------|--------------------------------------|------|------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NO = not occurring.

Table 102

Liechtenstein's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 103

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

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|------------------------|------|------|------|---------|-------|-------|
| Party holding accounts | NO | NO | NO | 209 603 | NO | NO |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|--|-------------|-------------|-------------|----------------|--------------|--------------|
| Entity holding accounts | NO | NO | NO | NO | NO | NO |
| Retirement account | NO | NO | NO | NO | NO | NO |
| Previous period surplus reserve account | NO | | | | | |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation account | NO | NO | NO | NO | | |
| Voluntary cancellation account | NO | NO | NO | NO | NO | NO |
| Cancellation account for remaining units after carry-over | NO | NO | NO | NO | NO | NO |
| Article 3.1 ter and quater ambition increase cancellation account | NO | | | | | |
| Article 3.7 ter cancellation account | NO | | | | | |
| tCER cancellation account for expiry | | | | | NO | |
| ICER cancellation account for expiry | | | | | | NO |
| ICER cancellation account for reversal of storage | | | | | | NO |
| ICER cancellation account for non-submission of certification report | | | | | | NO |
| tCER replacement account for expiry | NO | NO | NO | NO | NO | |
| ICER replacement account for expiry | NO | NO | NO | NO | | |
| ICER replacement account for reversal of storage | NO | NO | NO | NO | | NO |
| ICER replacement account for non-submission of certification report | NO | NO | NO | NO | | NO |
| Total | NO | NO | NO | 209 603 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 104

Liechtenstein's total transactions of Kyoto Protocol units in 2017 (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 | 220 151 | NO | NO |
| Total transactions | NO | NO | NO | 220 151 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 10 548 | NO | NO |
| Total transactions | NO | NO | NO | 10 548 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXIV. Lithuania

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

54. Tables 105–109 provide detailed information on Lithuania's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG

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

Table 105

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA= not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 106

Lithuania's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 20 096 210 | | 20 174 970 | 20 082 893 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -262 262 | | -381 347 | -413 853 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -7 916 776 | | -7 517 058 | -9 465 950 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 107
Lithuania's total quantities of Kyoto Protocol units by account type at the end of 2016
(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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 108
Lithuania's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 109

Lithuania's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXV. Luxembourg

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

56. Tables 110–114 provide detailed information on Luxembourg's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 110

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^b | 72 454 473 | t CO ₂ eq |

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|---|--------------|----------------------|
| Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 268,381 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 111

Luxembourg's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 10 268 935 | | 10 274 565 | 10 028 280 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -130 731 | | -130 731 | -129 858 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -306 473 | | -306 473 | -390 230 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 112

Luxembourg's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 718 220 | NO | NO |
| Entity holding accounts | NO | NO | NO | 18 029 | NO | NO |
| Retirement account | NO | NO | NO | NO | NO | NO |
| Previous period surplus reserve account | NO | | | | | |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation account | NO | NO | NO | NO | | |
| Voluntary cancellation account | NO | NO | NO | NO | NO | NO |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|--|-------------|-------------|-------------|----------------|--------------|--------------|
| Cancellation account for remaining units after carry-over | NO | NO | NO | NO | NO | NO |
| Article 3.1 ter and quater ambition increase cancellation account | NO | | | | | |
| Article 3.7 ter cancellation account | NO | | | | | |
| tCER cancellation account for expiry | | | | | NO | |
| ICER cancellation account for expiry | | | | | | NO |
| ICER cancellation account for reversal of storage | | | | | | NO |
| ICER cancellation account for non-submission of certification report | | | | | | NO |
| tCER replacement account for expiry | NO | NO | NO | NO | NO | |
| ICER replacement account for expiry | NO | NO | NO | NO | | |
| ICER replacement account for reversal of storage | NO | NO | NO | NO | | NO |
| ICER replacement account for non-submission of certification report | NO | NO | NO | NO | | NO |
| Total | NO | NO | NO | 736 249 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 113
Luxembourg's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 1 466 923 | 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 |

| <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 | 1 466 923 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 114

Luxembourg's total transactions of Kyoto Protocol units in 2017 (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 | 540 759 | NO | NO |
| Total transactions | NO | NO | NO | 540 759 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | NO | NO | NO |
| External transactions | NO | NO | NO | 337 091 | NO | NO |
| Total transactions | NO | NO | NO | 337 091 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXVI. Malta

57. The eligibility of Malta to participate in the flexibility mechanisms under the Kyoto Protocol had not been established⁷ as at 31 August 2018.

58. Tables 115–119 provide detailed information on Malta's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 115

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, paragraph 7 bis, in the Doha Amendment for that member State or Iceland.

⁷ See decision 11/CMP.1, annex, paragraphs 2 and 3, in conjunction with decision 1/CMP.8; decision 9/CMP.1, annex, paragraphs 21 and 22; and decision 3/CMP.1, annex, paragraphs 31 and 32.

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

Table 116

Malta's emissions/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-----------|--------------------------------------|-----------|-----------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 2 226 865 | | 2 225 140 | 1 909 754 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NE = not estimated, NO = not occurring.

Table 117

Malta's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | | |

| <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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 118

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 119

Malta's total transactions of Kyoto Protocol units in 2017 (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> | | | | | | |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXVII. Monaco

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

60. Tables 120–124 provide information on Monaco's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 120

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 78 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period | 619 751 | t CO 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 greenhouse gas 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 121

Monaco's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 81 709 | | 82 141 | 78 616 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | | | NO | NO |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | | | NO | NO |
| FMRL (t CO ₂ eq per year) | | | | NA | NA |
| Technical correction to FMRL (t CO ₂ eq per year) | | | | | |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|--|---|------|--------------------------------------|------|------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | | NO | NO | NO |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NO = not occurring.

Table 122

Monaco's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 123

Monaco's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 124

Monaco's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXVIII. Netherlands

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

62. Tables 125–129 provide detailed information on the initial accounting parameters of the Netherlands for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 125

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 752,270 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 126

The Netherlands's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 195 245 673 | | 194 778 847 | 195 241 560 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 717 456 | | 554 532 | 527 839 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -1 390 785 | | -1 332 664 | -1 319 625 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NE = not estimated.

Table 127
The Netherlands' total quantities of Kyoto Protocol units by account type at the end of 2016
(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 | 465 289 | NO | NO |
| Entity holding accounts | NO | NO | NO | 7 015 968 | 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 | 80 940 | 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 | 7 562 197 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 128
The Netherlands' total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | 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 | |

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|--|-------------|------------------|-------------|------------------|--------------|--------------|
| ICER cancellation account for expiry | | | | | | NO |
| ICER cancellation account for reversal of storage | | | | | | NO |
| ICER cancellation account for non-submission of certification report | | | | | | NO |
| tCER replacement account for expiry | NO | NO | NO | NO | NO | |
| ICER replacement account for expiry | NO | NO | NO | NO | | |
| ICER replacement account for reversal of storage | NO | NO | NO | NO | | NO |
| ICER replacement account for non-submission of certification report | NO | NO | NO | NO | | NO |
| Total | NO | 5 346 075 | NO | 3 548 366 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 129

The Netherlands' total transactions of Kyoto Protocol units in 2017 (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 | 5 346 077 | NO | 14 241 126 | NO | NO |
| Total transactions | NO | 5 346 077 | NO | 14 241 126 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | 10 000 | NO | 42 372 | NO | NO |
| External transactions | NO | 2 | NO | 18 254 957 | NO | NO |
| Total transactions | NO | 10 002 | NO | 18 297 329 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXIX. Norway

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

64. Tables 130–134 provide detailed information on Norway's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 130

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 84 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period | 348 914 303 | t CO ₂ eq |

| <i>Parameter</i> | <i>Value</i> | <i>Unit</i> |
|--|--------------|----------------------|
| Difference between the assigned amount for the second commitment period and the average annual emissions for the first three years of the first commitment period, multiplied by eight | -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 greenhouse gas 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 131

Norway's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 53 908 193 | | 53 871 235 | 53 242 514 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 2 024 364 | | 1 707 730 | 1 806 811 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals FMRL (t CO ₂ eq per year) | | -28 467 388 | | -27 797 834 | -28 396 132 |
| 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 | 1 765 094 | 1 857 910 | 1 705 141 | 1 774 999 | 1 770 257 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 132

Norway's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 11 572 456 | NO | NO |
| Entity holding accounts | NO | NO | NO | 1 455 789 | 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 | 91 136 | 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 | 738 305 | NO | 13 119 381 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 133
Norway's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 134
Norway's total transactions of Kyoto Protocol units in 2017 (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 | 4 775 495 | NO | NO |
| Total transactions | NO | NO | NO | 4 775 495 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 59 992 | NO | NO |
| External transactions | NO | 5 375 076 | NO | 1 178 478 | NO | NO |
| Total transactions | NO | 5 375 076 | NO | 1 238 470 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXX. Poland

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

66. Tables 135–139 provide detailed information on Poland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 135
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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 136
Poland's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|------------------------------------|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from | | 385 842 889 | | 385 169 884 | 395 823 526 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| sources listed in Annex A to the Kyoto Protocol | | | | | |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -2 550 295 | | -2 547 977 | 2 689 574 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -33 993 786 | | -31 734 200 | -37 830 883 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 137

Poland's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 138

Poland's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 139

Poland's total transactions of Kyoto Protocol units in 2017 (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 | 702 | NO | NO |
| External transactions | NO | NO | NO | NO | NO | NO |
| Total transactions | NO | NO | NO | 702 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXI. Portugal

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

68. Tables 140–144 provide detailed information on Portugal's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 140

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 4,276,759 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 141

Portugal's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 68 915 744 | | 69 577 380 | 67 775 564 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -1 316 829 | | -1 316 828 | -375 019 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -7 898 566 | | -7 898 566 | -2 104 248 |
| 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) | | 3 302 536 | | 3 286 492 | 3 286 492 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, | 4 797 894 | 316 754 | 4 795 150 | 316 754 | 255 650 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|------------------------------------|---|------|--------------------------------------|------|------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| paragraph 4, of the Kyoto Protocol | | | | | |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 142

Portugal's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 167 | 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 | 167 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 143

Portugal's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |
| Retirement account | NO | NO | NO | NO | NO | NO |
| Previous period surplus reserve account | NO | | | | | |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation account | NO | NO | NO | NO | | |
| Voluntary cancellation account | NO | NO | NO | NO | NO | NO |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 144

Portugal's total transactions of Kyoto Protocol units in 2017 (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 | 167 | NO | NO |
| Total transactions | NO | NO | NO | 167 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXII. Romania

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

70. Tables 145–149 provide detailed information on Romania's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 145

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 146

Romania's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 116 426 728 | | 116 211 316 | 112 542 364 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 7 730 091 | | 7 730 190 | 7 730 262 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -27 479 098 | | -27 854 573 | -27 867 177 |
| FMRL (t CO ₂ eq per year) | | -15 444 000 | | -15 444 000 | -15 444 000 |
| Technical correction to FMRL (t CO ₂ eq per year) | | -3 665 254 | | -3 665 254 | -3 665 254 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | -1 222 003 | -1 698 592 | -1 258 616 | -1 309 343 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 147

Romania's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 148

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

| <i>Account type</i> | <i>AAUs</i> | <i>ERUs</i> | <i>RMUs</i> | <i>CERs</i> | <i>tCERs</i> | <i>ICERs</i> |
|---|-------------|-------------------|-------------|------------------|--------------|--------------|
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 149

Romania's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXIII. Slovakia

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

72. Tables 150–154 provide detailed information on Slovakia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 150

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 151

Slovakia's emissions/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 41 269 495 | | 40 906 367 | 41 037 121 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -400 657 | | -436 231 | -494 431 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -5 158 639 | | -5 256 685 | -5 092 825 |
| 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) | | NA | | NA | -1 214 000 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | NA | NA | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 152

Slovakia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

| <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 | NO | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 153

Slovakia's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 154

Slovakia's total transactions of Kyoto Protocol units in 2017 (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> | | | | | | |

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

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXIV. Slovenia

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

74. Tables 155–159 provide detailed information on Slovenia's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 155

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 156

Slovenia's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|--|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 16 831 164 | | 16 859 927 | 17 717 560 |
| Net emissions or removals from | | 506 029 | | 441 472 | 447 029 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|--|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| LULUCF activities under Article 3, 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 | | -4 760 211 | | -4 970 866 | -5 013 143 |
| 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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NE = not estimated.

Table 157
Slovenia's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 158
Slovenia's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 159
Slovenia's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXV. Spain

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

76. Tables 160–164 provide detailed information on Spain's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 160

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 161

Spain's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 335 661 517 | | 335 809 458 | 324 706 553 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -10 856 627 | | -10 678 037 | -9 742 775 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -26 092 385 | | -28 944 315 | -28 556 598 |
| 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 | -1 098 167 | -1 996 876 | -869 552 | -2 278 762 | -2 445 938 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NO = not occurring.

Table 162

Spain's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 | 15 108 941 | NO | NO |
| Entity holding accounts | NO | 322 954 | NO | 934 896 | 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 | 20 076 | 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 | 2 165 398 | NO | 16 063 913 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 163

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

| <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 | 2 170 468 | NO | 17 030 872 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 164

Spain's total transactions of Kyoto Protocol units in 2017 (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 | 1 229 938 | NO | NO |
| Total transactions | NO | NO | NO | 1 229 938 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | 19 366 | NO | 197 798 | NO | NO |
| External transactions | NO | NO | NO | 266 158 | NO | NO |
| Total transactions | NO | 19 366 | NO | 463 956 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXVI. Sweden

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

78. Tables 165–169 provide detailed information on Sweden's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 165

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period ^b | 315 554 578 | t CO ₂ eq |

| Parameter | Value | Unit |
|---|------------|----------------------|
| 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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 166

Sweden's emissions/removals of greenhouse gases in 2015 and 2016

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 53 690 357 | | 53 754 837 | 52 892 716 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 777 147 | | 943 527 | 1 198 622 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -52 982 042 | | -45 934 347 | -46 396 082 |
| 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) | | 7 268 385 | | 9 156 037 | 9 156 037 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | NA | NA | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 167

Sweden's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|---|------|------|------|-----------|-------|-------|
| Party holding accounts | NO | NO | NO | 5 223 056 | NO | NO |
| Entity holding accounts | NO | NO | NO | 1 440 200 | 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 | 56 048 | 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 | 6 719 304 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 168

Sweden's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 169

Sweden's total transactions of Kyoto Protocol units in 2017 (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 | 6 692 824 | NO | NO |
| Total transactions | NO | NO | NO | 6 692 824 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 41 469 | NO | NO |
| External transactions | NO | NO | NO | 2 071 129 | NO | NO |
| Total transactions | NO | NO | NO | 2 112 598 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXVII. Switzerland

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

80. Tables 170–174 provide detailed information on Switzerland's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 170

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 84.2 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period | 361 768 524 | t CO 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 greenhouse gas 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 171

Switzerland's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the | | 48 138 863 | | 47 909 947 | 48 294 435 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|------------|--------------------------------------|------------|------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Kyoto Protocol | | | | | |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 133 415 | | 104 298 | 131 835 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -2 536 439 | | -2 720 217 | -2 433 607 |
| 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 | | -1 900 581 | -1 900 581 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | NA | NA | NA | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 172

Switzerland's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|--|-----------|-----------|-----------|-------------------|-----------|-----------|
| Party holding accounts | NO | NO | NO | 15 297 | NO | NO |
| Entity holding accounts | NO | NO | NO | 16 275 458 | 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 | 854 839 | 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 | 17 145 594 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 173
Switzerland's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 1 723 552 | 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 | | |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 174
Switzerland's total transactions of Kyoto Protocol units in 2017 (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 | 15 617 535 | NO | NO |
| Total transactions | NO | NO | NO | 15 617 535 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 1 133 591 | NO | NO |
| External transactions | NO | NO | NO | 12 928 250 | NO | NO |
| Total transactions | NO | NO | NO | 14 061 841 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXVIII. Ukraine

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

82. Tables 175–179 provide detailed information on Ukraine's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 175

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 76 | per cent |
| Assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis, in the Doha Amendment for the second commitment period | 5 702 761 558 | t CO 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 greenhouse gas 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 176

Ukraine's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 323 364 932 | | 319 011 814 | 338 636 090 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -1 067 240 | | -1 071 025 | -1 242 191 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -68 962 590 | | -68 962 590 | -67 560 979 |
| 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 | | -13 435 000 | -13 435 000 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | NA | | NA | NA |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.

Table 177

Ukraine's total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |
| 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 178

Ukraine's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

| <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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 179

Ukraine's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

XXXIX. United Kingdom of Great Britain and Northern Ireland⁸

83. 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.

84. Tables 180–184 provide detailed information on the United Kingdom's initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 180

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 to the Kyoto Protocol or in accordance with Article 4 of the Kyoto Protocol | 80 | per cent |

⁸ In 2017 the geographical coverage of the United Kingdom's inventory changed to exclude the territory of Bermuda.

| <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 | 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 |

Abbreviation: NA = not applicable.

^a The total greenhouse gas 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 the conversion of forests (deforestation) of 246,048 t CO₂ eq.

^b The assigned amounts of each European Union member State and Iceland are equal to the emission levels agreed under the terms of the joint fulfilment agreement and the results of the application of Article 3, 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 181

The United Kingdom of Great Britain and Northern Ireland's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 506 044 111 | | 510 502 796 | 485 495 645 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 128 750 | | -712 993 | -706 997 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -18 661 791 | | -23 005 624 | -22 100 801 |
| 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) | | -7 566 000 | | -14 515 000 | -14 515 000 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | 7 737 723 | 6 800 065 | 7 641 808 | 6 656 082 | 6 516 465 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

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 2016 (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 | 2 463 229 | 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 | 362 188 | 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 | 2 825 417 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 183

The United Kingdom of Great Britain and Northern Ireland's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 | 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 |

| <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 | NO | 3 543 661 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 184

The United Kingdom of Great Britain and Northern Ireland's total transactions of Kyoto Protocol units in 2017 (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 | 2 | NO | 6 359 998 | NO | NO |
| Total transactions | NO | 2 | NO | 6 359 998 | NO | NO |
| <i>Subtractions</i> | | | | | | |
| Internal transactions | NO | NO | NO | 293 561 | NO | NO |
| External transactions | NO | NO | NO | 5 641 754 | NO | NO |
| Total transactions | NO | NO | NO | 5 935 315 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

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

85. In accordance with decisions 2/CMP.8, paragraph 4, and 3/CMP.11, paragraph 14, Parties included in Annex I without a quantified emission limitation or reduction commitment inscribed in the third column of Annex B in the Doha Amendment (Japan, New Zealand and Russian Federation) shall continue to report information on land use, land-use change and forestry 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

86. Tables 185–188 provide detailed information on Japan's GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 185

Japan's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|---------------|---|---------------|---------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the | | 1 324 717 744 | | 1 323 164 089 | 1 306 670 175 |

| Parameter | Emissions/removals of greenhouse gases (t CO ₂ eq) | | | | |
|---|---|-------------|--------------------------------------|-------------|-------------|
| | Final values (2017 submission) | | Provisional values (2018 submission) | | |
| | Base year | 2015 | Base year | 2015 | 2016 |
| Kyoto Protocol | | | | | |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | 385 539 | | 241 068 | 909 489 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -49 362 619 | | -49 012 940 | -46 861 952 |
| FMRL (t CO ₂ eq per year) | | 0 | | 0 | 0 |
| Technical correction to FMRL (t CO ₂ eq per year) | | 1 127 875 | | 1 448 651 | 1 590 200 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | 11 021 384 | 2 373 512 | 11 020 905 | 2 775 851 | 3 178 559 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry.

Table 186

Japan's total quantities of Kyoto Protocol units by account type at the end of 2016 (final values)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|--|-----------|-----------|-----------|----------------|-----------|-----------|
| Party holding accounts | NO | NO | NO | 144 367 | NO | NO |
| Entity holding accounts | NO | NO | NO | 485 593 | 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 | NO | NO | 629 960 | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 187
Japan's total quantities of Kyoto Protocol units by account type at the end of 2017
(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 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 188
Japan's total transactions of Kyoto Protocol units in 2017 (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 | 584 472 | NO | NO |
| Total transactions | NO | NO | NO | 584 472 | 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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

B. New Zealand

87. Tables 189–193 provide detailed information on New Zealand’s initial accounting parameters for the second commitment period under the Kyoto Protocol, its GHG emissions and removals, the holdings of Kyoto Protocol units by account type and transactions of Kyoto Protocol units.

Table 189

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 the 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 greenhouse gas 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 190

New Zealand’s emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|-------------|---|-------------|-------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 80 155 143 | | 80 703 006 | 78 726 918 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -12 535 323 | | -13 763 696 | -14 710 873 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals | | -12 106 227 | | -18 119 672 | -14 858 115 |
| FMRL (t CO ₂ eq per year) | | 11 150 000 | | 11 150 | 11 150 |
| Technical correction to FMRL (t CO ₂ eq per year) | | -17 245 261 | | -17 500 | -17 500 |
| Net emissions or removals from LULUCF activities (excluding forest management) under Article 3, paragraph 4, of the Kyoto Protocol | | NA, NE | | NA, NE | NA, NE |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable, NE = not estimated.

Table 191

New Zealand’s total quantities of Kyoto Protocol units by account type at the end of 2016 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 192

New Zealand's total quantities of Kyoto Protocol units by account type at the end of 2017 (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 |

| <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 | NO | NO | NO | NO | NO |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

Table 193

New Zealand's total transactions of Kyoto Protocol units in 2017 (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 |

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, NO = not occurring, RMUs = removal units, tCERs = temporary certified emission reductions.

C. Russian Federation

88. Table 194 provides detailed information on the Russian Federation's annual GHG emissions and removals.

Table 194

The Russian Federation's emissions/removals of greenhouse gases in 2015 and 2016

| <i>Parameter</i> | <i>Emissions/removals of greenhouse gases (t CO₂ eq)</i> | | | | |
|---|---|---------------|---|---------------|---------------|
| | <i>Final values (2017 submission)</i> | | <i>Provisional values (2018 submission)</i> | | |
| | <i>Base year</i> | <i>2015</i> | <i>Base year</i> | <i>2015</i> | <i>2016</i> |
| Emissions of greenhouse gases from sources listed in Annex A to the Kyoto Protocol | | 2 651 211 999 | | 2 629 877 468 | 2 643 816 894 |
| Net emissions or removals from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol (afforestation and reforestation, and deforestation) | | -179 060 | | 403 829 | 26 110 |
| Forest management under Article 3, paragraph 4, of the Kyoto Protocol | | | | | |
| Net emissions or removals FMRL (t CO ₂ eq per year) | | -504 208 314 | | -532 934 613 | -517 508 090 |
| Technical correction to FMRL (t CO ₂ eq per year) | | 6 624 310 | | -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 |

Abbreviations: FMRL = forest management reference level, LULUCF = land use, land-use change and forestry, NA = not applicable.