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Item 9(b) of the provisional agenda

Reporting from and review of Parties included in Annex I¹

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

**Annual compilation and accounting report for Annex B
Parties under the Kyoto Protocol for 2015**

Note by the secretariat**

Summary

This report contains information on the first commitment period for Parties with commitments inscribed in Annex B to the Kyoto Protocol, in particular: (1) total greenhouse gas (GHG) emissions from the sources listed in Annex A to the Kyoto Protocol, (2) GHG emissions and removals from land use, land-use change and forestry activities under Article 3, paragraph 3, of the Kyoto Protocol and elected activities under Article 3, paragraph 4, of the Kyoto Protocol and (3) transactions and holdings of Kyoto Protocol units. For the second commitment period, this report contains information on transactions and holdings of Kyoto Protocol units only because the negotiations on matters related to the implementation of Articles 5, 7 and 8 for the second commitment period are still ongoing. Part of the information contained in this document, in particular, total GHG emissions from the sources listed in Annex A to the Kyoto Protocol and GHG emissions and removals from land use, land-use change and forestry activities, is final for the first commitment period and corresponds to the final data recorded in the compilation and accounting database; the other information is provisional and is based on data submitted in 2015 by Parties included in Annex I as at 9 November 2015. The final values will be made available upon completion of the related review process and resolution of any questions of implementation.

* Reissued for technical reasons on 26 November 2015.

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

** This document was submitted after the due date in order to take into account the latest submissions from Parties.

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I. Introduction

A. Mandate

1. Parties to the Convention that are also Parties to the Kyoto Protocol with commitments inscribed in Annex B to the Kyoto Protocol (Annex B Parties) were required to start reporting supplementary information under Article 7, paragraph 1, of the Kyoto Protocol, with the inventory submission due under the Convention for the first year of the commitment period after the Protocol had entered into force for that Party.² They could also start reporting such information on a voluntary basis from the year following the submission of the information referred to in decision 13/CMP.1, annex, paragraph 6. According to the same decision, the information reported shall include the following:

(a) Greenhouse gas (GHG) emissions from the sources listed in Annex A to the Kyoto Protocol, submitted as part of the annual GHG inventory;

(b) Anthropogenic GHG emissions by sources and removals by sinks from land use, land-use change and forestry (LULUCF) activities under Article 3, paragraph 3, and, if elected, activities under Article 3, paragraph 4, of the Kyoto Protocol;

(c) Transactions and holdings of Kyoto Protocol units: emission reduction units (ERUs), certified emission reductions (CERs), temporary certified emission reductions (tCERs), long-term certified emission reductions, assigned amount units (AAUs) and removal units (RMUs).

2. Pursuant to decision 2/CMP.8, each Party with a quantified emission limitation or reduction commitment inscribed in the third column of Annex B as contained in annex I to decision 1/CMP.8 shall submit the following with the annual inventory for the first year of the second commitment period:

(a) Annual GHG inventory in accordance with Article 5, paragraph 2, of the Kyoto Protocol, which shall include information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol;

(b) Standard electronic format (SEF) tables for reporting Kyoto Protocol units for the second commitment period.

3. The Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP) requested the secretariat by decision 13/CMP.1 to begin publishing the annual compilation and accounting reports referred to in paragraph 61 of the annex to that decision after completion of the initial review under Article 8 of the Kyoto Protocol and resolution of any questions of implementation relating to adjustments under Article 5, paragraph 2, or to the assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol, and to forward such reports to the CMP, the Compliance Committee and each Party concerned.

B. Scope of the note

4. For the first commitment period of the Kyoto Protocol, the secretariat has published eight compilation and accounting reports for Annex B Parties to date. The first report,³ containing information on initial accounting parameters for most Annex B Parties, was

² Decision 15/CMP.1.

³ FCCC/KP/CMP/2008/9/Rev.1 and FCCC/KP/CMP/2008/9/Add.1 and Add.1/Corr.1.

published in 2008. The subsequent reports,⁴ containing relevant supplementary information reported under Article 7, paragraph 1, of the Kyoto Protocol in addition to the initial accounting parameters, were published annually from 2009 to 2014. This document is the eighth report and contains the same information for 2015.

5. The initial reviews for the first commitment period were completed for all 37 Annex B Parties on 26 August 2009. Belarus submitted its initial report for the first commitment period, but the review of the report has not been initiated because the amendment to include Belarus in Annex B to the Kyoto Protocol (with a quantified emission reduction commitment of 92 per cent) has not yet entered into force.⁵

6. For the first commitment period, this annual compilation and accounting report for 2015 covers all 37 Annex B Parties. In addition to the initial accounting parameters, the report includes the final data for the first commitment period as follows:⁶ (1) total GHG emissions from the sources listed in Annex A to the Kyoto Protocol reported for 2012 (final data for the first commitment period) and (2) GHG emissions and removals from LULUCF activities under Article 3, paragraph 3, and elected activities under Article 3, paragraph 4, of the Kyoto Protocol for 2012 (final data for the first commitment period). This report also contains the provisional information on transactions and holdings of Kyoto Protocol units as at 31 December 2014, as reported by Parties in 2015.

7. For the second commitment period, the information in this report is provided for those Annex B Parties that have quantified emission limitation or reduction commitment (QELRC) and whose initial accounting parameters have been established in the first commitment period. As at 9 November 2015, seven Parties have submitted information on transactions and holdings of Kyoto Protocol units in accordance with decisions 1/CMP.8 and 2/CMP.8. In accordance with decision 13/CP.20, in 2015, Parties included in Annex I to the Convention may submit their common reporting format (CRF) tables after the deadline set out in decision 24/CP.19 (15 April), but no longer than the corresponding delay in the availability of the CRF Reporter. By 9 November 2015, CRF tables had been received from 26 Annex B Parties⁷ and therefore the following information is provided for those 26 Parties: (1) total GHG emissions from the sources listed in Annex A to the Kyoto Protocol reported for 2013 and (2) GHG emissions and removals from LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol for 2013, where available. The accounting parameters for the second commitment period are not included in this report because the initial reporting and review for that period have not yet been implemented, given that the guidance for conducting reviews under Article 8 in the second commitment period has not yet been finalized by the CMP and that the negotiations on this matter, and also other matters related to Articles 5 and 7, including accounting and reporting, are still ongoing.⁸

8. Information is also provided on the eligibility of the 37 Annex B Parties to participate in the flexibility mechanisms. Paragraph 15 of decision 1/CMP.8 provides that a

⁴ FCCC/KP/CMP/2009/15 and Add.1, FCCC/KP/CMP/2010/5 and Add.1, FCCC/KP/CMP/2011/8 and Add.1, FCCC/KP/CMP/2012/9 and Add.1, FCCC/KP/CMP/2013/6 and Add.1 and FCCC/KP/CMP/2014/7 and Add.1.

⁵ CMP 3 requested the Subsidiary Body for Implementation to consider the matter of a review of the initial report of Belarus before the entry into force of the amendment upon fulfilment of certain conditions (see document FCCC/KP/CMP/2007/9, paras. 159 and 160). To date, these conditions have not been met.

⁶ As at 10 July 2015, the annual review for 2014 had been finalized for all 37 Annex B Parties.

⁷ The submissions from the European Union member States were made under the Convention only and not under the Kyoto Protocol, as explained in the relevant national inventory reports.

⁸ The latest version of the negotiating text on these matters can be found in document FCCC/SBSTA/2015/L.13, in annex II in particular.

Party with a QELRC inscribed in the third column of Annex B as contained annex I to decision 1/CMP.8 whose eligibility had already been established in the first commitment period shall be eligible to transfer and acquire Kyoto Protocol units valid for the second commitment period, as long as it has not been suspended by the enforcement branch of the Compliance Committee. However, the use of CERs by a Party for compliance with its second commitment period QELRC would be subject to entry into force of the Doha Amendment for that Party (decision 1/CMP.8, para. 14).

9. Some of the information presented in this report, particularly for 2015, is provisional. The final values will be made available upon completion of the annual review of the information reported in 2015 and resolution of any questions of implementation or disagreements relating to adjustments and/or corrections, and will be presented in future reports, as appropriate.

10. Detailed information on assigned amounts of individual Annex B Parties, as well as other accounting information provided under the first commitment period of the Kyoto Protocol, is contained in document FCCC/KP/CMP/2015/6/Add.1. The full annual submissions of GHG inventories and accounting information from Parties are available on the UNFCCC website.⁹

C. Possible action by the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol

11. The CMP may wish to refer consideration of the information contained in this document to the Subsidiary Body for Implementation with a view to the latter providing the CMP with recommendations for further action, if required.

II. Status of reporting and eligibility

A. Status of annual submissions and review processes

12. As at 15 April 2015, no CRF tables had been received from Annex B Parties. Within six weeks of 15 April 2015, two of these Parties had submitted their CRF tables. Table 1 shows the status of submission of the CRF, Kyoto Protocol LULUCF and SEF tables by Annex B Parties¹⁰ as at 9 November 2015.

Table 1

Status of submission of common reporting format tables, Kyoto Protocol land use, land-use change and forestry tables and standard electronic format tables by Annex B Parties

Party	CRF tables	KP-LULUCF tables	SEF tables		
			(first commitment period)	(second commitment period)	
			2014	2013	2014
Australia	x	x	x	x	x
Bulgaria ^a	x		x		
Croatia ^a	x		x		
Czech Republic ^a	x		x		

⁹ <<http://unfccc.int/8812.php>>.

¹⁰ This report includes the submission for those Annex B Parties that have QELRC and whose initial accounting parameters have been established in the first commitment period.

Party	CRF tables	KP-LULUCF tables	SEF tables	SEF tables	
			(first commitment period)	(second commitment period)	
			2014	2013	2014
Estonia ^a	X		X		
European Union ^b			X		
Austria ^a	X		X		
Belgium ^a	X		X		
Denmark ^c	X		X		
Finland ^a	X		X		
France ^c	X		X	X	X
Germany ^a	X		X		
Greece ^a	X		X		
Ireland ^a	X		X		
Italy ^a	X		X		
Luxembourg			X		
Netherlands ^a	X		X		
Portugal ^a	X		X		
Spain ^a	X		X		
Sweden ^a	X		X		
United Kingdom ^a	X		X		
Hungary			X		
Iceland	X		X		
Japan			X	X	X
Latvia ^a	X		X		
Liechtenstein			X		
Lithuania ^a	X		X		
Monaco			X		X
New Zealand	X		X	X	X
Norway			X		X
Poland ^a	X		X		
Romania			X		
Russian Federation	X	X	X		
Slovakia ^a	X		X		
Slovenia ^a	X		X		
Switzerland			X	X	X
Ukraine	X	X	X		

Notes: (1) Blank cells indicate that no submission had been received as at 9 November 2015. Some Parties, such as Luxembourg, Norway and Romania submitted their CRF tables after 9 November 2015; such submissions could not be reported on in this document. (2) The European Union and its member States that had not submitted their CRF tables as at 9 November 2015 (Hungary, Luxembourg and Romania) have communicated to the secretariat that they plan to submit their inventory submissions prior to the start of the twenty-first session of the Conference of the Parties. Once these submissions have been made, they will be available on the UNFCCC website at <<http://unfccc.int/8812.php>>.

Abbreviations: CRF = common reporting format, KP-LULUCF = Kyoto Protocol land use, land-use change and forestry, SEF = standard electronic format.

^a The Party submitted its CRF tables under the Convention only.

^b The Parties listed under the European Union were the 15 member States at the time of deposit by the European Community of its instrument of approval of the Kyoto Protocol, 31 May 2002. Unless otherwise indicated, subsequent references to the European Union and its 15 member States relate to this group of Parties.

^c The Party submitted its CRF tables under the Convention only. The geographical coverage of its submissions under the Convention is different from the coverage under the Kyoto Protocol.

13. As at 9 November 2015, 26 Annex B Parties¹¹ had submitted their annual GHG inventories for the period from the base year to 2013. Three Parties had also submitted information on GHG emissions and removals from LULUCF activities under Article 3, paragraph 3, and elected activities under Article 3, paragraph 4, of the Kyoto Protocol.

14. In addition, 37 Parties submitted the SEF tables for the first commitment period for the period from 1 January to 31 December 2014. These tables contain information on transactions and holdings of Kyoto Protocol units during part of the true-up period of the first commitment period, which ends on 18 November 2015. For the second commitment period, five Parties submitted the SEF tables for the period from 1 January to 31 December 2013 and seven Parties submitted them for the period from 1 January to 31 December 2014.

15. The annual reviews of the information reported under Article 7, paragraph 1, of the Kyoto Protocol by Annex B Parties in 2015 have not been initiated, as the guidance for conducting annual reviews under Article 8 in the second commitment period has not yet been finalized by the CMP. The negotiations on this matter and others related to Articles 5 and 7, including accounting and reporting, are ongoing.

B. Status of eligibility

16. Table 2 contains a list of Annex B Parties whose eligibility to participate in the flexibility mechanisms under the Kyoto Protocol pursuant to decisions 3/CMP.1, 9/CMP.1, 11/CMP.1 and 15/CMP.1 was established or reinstated in the first commitment period. As at 9 November 2015, all these Parties were eligible to participate in the flexibility mechanisms with respect to the first commitment period.¹² Of these Parties, those that have a QELRC in the third column of Annex B, as contained in annex I to decision 1/CMP.8, are also eligible to transfer and acquire Kyoto Protocol units valid for the second commitment period as at that date.

17. The status of eligibility will be updated in the compilation and accounting database once the related review of the information reported in the initial report and the first annual inventory submission for the second commitment period has been completed and questions of implementation, if any, have been resolved. The review processes for the second commitment period will be enabled once the full set of decisions on reporting, review, accounting and adjustments for the second commitment period of the Kyoto Protocol has been adopted.

Table 2

Status of eligibility of Annex B Parties to participate in the Kyoto Protocol mechanisms

<i>Annex B Party</i>	<i>Status</i>	<i>Last change in eligibility status (date and time)^a</i>
Australia	E	11 July 2009, 00:00:01
Bulgaria	E	4 February 2011, 15:42:12
Croatia	E	8 February 2012, 09:53:32
Czech Republic	E	24 February 2008, 00:00:01

¹¹ The submissions from the European Union member States were made under the Convention only and not under the Kyoto Protocol, as explained in the relevant national inventory reports.

¹² Rules on eligibility with respect to the second commitment period are contained in decision 1/CMP.8, chapter IV.

<i>Annex B Party</i>	<i>Status</i>	<i>Last change in eligibility status (date and time)^a</i>
Estonia	E	15 April 2008, 00:00:01
European Union ^b	E	18 April 2008, 00:00:01
Austria	E	5 April 2008, 00:00:01
Belgium	E	22 April 2008, 00:00:01
Denmark	E	20 April 2008, 00:00:01
Finland	E	22 April 2008, 00:00:01
France	E	21 April 2008, 00:00:01
Germany	E	27 April 2008, 00:00:01
Greece	E	14 November 2008,
Ireland	E	19 April 2008, 00:00:01
Italy	E	19 April 2008, 00:00:01
Luxembourg	E	29 April 2008, 00:00:01
Netherlands	E	21 April 2008, 00:00:01
Portugal	E	28 April 2008, 00:00:01
Spain	E	19 April 2008, 00:00:01
Sweden	E	19 April 2008, 00:00:01
United Kingdom	E	11 April 2008, 00:00:01
Hungary	E	30 December 2007, 00:00:01
Iceland	E	11 May 2008, 00:00:01
Japan	E	30 December 2007, 00:00:01
Latvia	E	29 April 2008, 00:00:01
Liechtenstein	E	22 April 2008, 00:00:01
Lithuania	E	24 October 2012, 10:47:02
Monaco	E	7 September 2008, 00:00:01
New Zealand	E	31 December 2007, 00:00:01
Norway	E	22 April 2008, 00:00:01
Poland	E	29 April 2008, 00:00:01
Romania	E	13 July 2012, 12:42:59
Russian Federation	E	20 June 2008, 00:00:01
Slovakia	E	4 February 2008, 00:00:01
Slovenia	E	22 April 2008, 00:00:01
Switzerland	E	10 March 2008, 00:00:01
Ukraine	E	9 March 2012, 15:32:22

Abbreviation: E = considered to meet the eligibility requirements under: Article 6 of the Kyoto Protocol, pursuant to decision 9/CMP.1, annex, paragraph 22; Article 12, pursuant to decision 3/CMP.1, annex, paragraph 32; and Article 17, pursuant to decision 11/CMP.1, annex, paragraph 3.

^a All times are in Greenwich Mean Time.

^b The Parties listed under the European Union were the 15 member States at the time of the deposit by the European Community of its instrument of approval of the Kyoto Protocol, 31 May 2002. Unless otherwise indicated, subsequent references to the European Union and its 15 member States relate to this group of Parties.

III. Main accounting parameters

A. Key initial accounting parameters

18. For the first commitment period, the base year chosen for the accounting of fluorinated gases (F-gases) (hydrofluorocarbons, perfluorocarbons and sulphur hexafluoride), the GHG emissions from the sources listed in Annex A to the Kyoto Protocol in the base year and the assigned amounts established pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol are provided in table 3.

19. In accordance with decision 2/CMP.8, each Party with a QELRC inscribed in the third column of Annex B as contained in annex I to decision 1/CMP.8 shall submit to the secretariat, by 15 April 2015, a report to facilitate the calculation of its assigned amount pursuant to Article 3, paragraphs 7 bis, 8 and 8 bis as contained in annex I to decision 1/CMP.8 and to demonstrate its capacity to account for its emissions and assigned amount. The base year emissions and assigned amount are not yet available for the second commitment period, as the full set of decisions on reporting, review, accounting and adjustments for the second commitment period of the Kyoto Protocol has not yet been adopted.¹³

Table 3

Base year emissions and assigned amounts for the first commitment period of the Kyoto Protocol

Party	Base year defined under the Kyoto Protocol ^a		Base year emissions ^b (t CO ₂ eq)	Emission reduction/limitation target, % of base year level		Assigned amount (t CO ₂ eq)
	CO ₂ , CH ₄ and N ₂ O	F-gases		Annex B	Article 4 ^c	
Australia	1990	1990	547 699 841	108		2 957 579 143
Bulgaria	1988	1995	132 618 658	92		610 045 827
Croatia	1990	1990	31 321 790	95		148 778 503
Czech Republic	1990	1995	194 248 218	92		893 541 801
Estonia	1990	1995	42 622 312	92		196 062 637
European Union	1990	1990 or 1995	4 265 517 719	92	92	19 621 381 509
Austria	1990	1990	79 049 657	92	87	343 866 009
Belgium	1990	1995	145 728 763	92	92.5	673 995 528
Denmark	1990	1995	69 978 070	92	79	276 838 955
Finland	1990	1995	71 003 509	92	100	355 017 545
France	1990	1990	563 925 328	92	100	2 819 626 640
Germany	1990	1995	1 232 429 543	92	79	4 868 096 694
Greece	1990	1995	106 987 169	92	125	668 669 806
Ireland	1990	1995	55 607 836	92	113	314 184 272
Italy	1990	1990	516 850 887	92	93.5	2 416 277 898
Luxembourg	1990	1995	13 167 499	92	72	47 402 996
Netherlands	1990	1995	213 034 498	92	94	1 001 262 141
Portugal	1990	1995	60 147 642	92	127	381 937 527
Spain	1990	1995	289 773 205	92	115	1 666 195 929
Sweden	1990	1995	72 151 646	92	104	375 188 561

¹³ As at 9 November 2015, one Party had submitted its report to facilitate the calculation of the assigned amount (Ukraine, on 14 August 2015).

Party	Base year defined under the Kyoto Protocol ^a		Base year emissions ^b (t CO ₂ eq)	Emission reduction/limitation target, % of base year level		Assigned amount (t CO ₂ eq)
	CO ₂ , CH ₄ and N ₂ O	F-gases		Annex B	Article 4 ^c	
United Kingdom	1990	1995	779 904 144	92	87.5	3 412 080 630
Hungary	1985–1987	1995	115 397 149	94		542 366 600
Iceland	1990	1990	3 367 972	110		18 523 847
Japan	1990	1995	1 261 331 418	94		5 928 257 666
Latvia	1990	1995	25 909 159	92		119 182 130
Liechtenstein	1990	1990	229 483	92		1 055 623
Lithuania	1990	1995	49 414 386	92		227 306 177
Monaco	1990	1995	107 658	92		495 221
New Zealand	1990	1990	61 912 947	100		309 564 733
Norway	1990	1990	49 619 168	101		250 576 797
Poland	1988	1995	563 442 774	94		2 648 181 038
Romania	1989	1989	278 225 022	92		1 279 835 099
Russian Federation	1990	1995	3 323 419 064	100		16 617 095 319
Slovakia	1990	1990	72 050 764	92		331 433 516
Slovenia	1986	1995	20 354 042	92		93 628 593
Switzerland	1990	1990	52 790 957	92		242 838 402
Ukraine	1990	1990	920 836 933	100		4 604 184 663
Total^d			12 012 437 434			57 641 914 844

Abbreviations: F-gases = fluorinated gases, t CO₂ eq = tonnes of carbon dioxide equivalent.

^a Parties included in Annex I may choose to use 1995 as the base year for total emissions of fluorinated gases (hydrofluorocarbons, perfluorocarbons and sulphur hexafluoride), in accordance with Article 3, paragraph 8, of the Kyoto Protocol. For the European Union, individual member States have elected either 1990 or 1995 as their base year.

^b Refers to the total base year greenhouse gas emissions used for calculation of assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol. Note that the following Parties included net emissions from land use, land-use change and forestry (deforestation) in their total greenhouse gas emissions for the base year in accordance with decision 13/CMP.1, annex, paragraph 5(b): Australia: 131,544,513 t CO₂ eq; Ireland: 4,719 t CO₂ eq; Netherlands: 38,676 t CO₂ eq; Portugal: 981,203 t CO₂ eq; and United Kingdom of Great Britain and Northern Ireland: 365,593 t CO₂ eq.

^c For the first commitment period, the 15 member States at the time of the deposit by the European Community of its instrument of approval of the Kyoto Protocol agreed to meet their commitments under Article 3, paragraph 1, of the Kyoto Protocol jointly in accordance with Article 4, paragraph 1, of the Kyoto Protocol.

^d The total includes the assigned amount of the European Union but does not include the assigned amounts of the individual member States in order to avoid double counting.

1. Total base year greenhouse gas emissions used for the calculation of the assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol for the first commitment period

20. In accordance with Article 3, paragraph 8, of the Kyoto Protocol, any Party included in Annex I may use 1995 as its base year for F-gases for the purpose of calculating its assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol. Consequently, 23 Annex B Parties elected to use 1995 as the base year for F-gases, while the remaining Parties, excluding the European Union, used the same base year for all GHGs. For the European Union, individual member States have elected either 1990 or 1995 as their base year for F-gases.

21. The total GHG emissions for 36 Annex B Parties¹⁴ in the base year¹⁵ amounted to 12,012.4 million tonnes of carbon dioxide equivalent (Mt CO₂ eq), including total GHG emissions of 11,879.5 Mt CO₂ eq from the sources listed in Annex A to the Kyoto Protocol and emissions from LULUCF (net emissions and removals in the base year from the conversion of forests (deforestation)) of 132.9 Mt CO₂ eq.

2. Assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol for the first commitment period

22. The assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol for the first commitment period for a Party is calculated as the percentage inscribed for it in Annex B to the Kyoto Protocol of its aggregate anthropogenic CO₂ eq emissions of the GHGs from sources listed in Annex A to the Kyoto Protocol in the base year, multiplied by five. In accordance with Article 4, paragraph 1, of the Kyoto Protocol, the assigned amounts for 15 European Union member States¹⁶ have been calculated under the burden-sharing agreement of the European Union for meeting commitments under the Kyoto Protocol. On the basis of the information provided in the initial reports, assigned amounts for the first commitment period (2008–2012) were established for the 37 Annex B Parties (including the European Union).

23. For the first commitment period, the total assigned amount for 36¹⁷ Annex B Parties taken together is 57,641,914,844 t CO₂ eq. The total assigned amount for the European Union as a Party to the Kyoto Protocol for the first commitment period is 19,621,381,509 t CO₂ eq.

B. Greenhouse gas emissions and removals in 2012

1. Emissions from sources listed in Annex A to the Kyoto Protocol in 2012

24. According to the information submitted by Annex B Parties in 2014, the total GHG emissions in 2012 of Annex B Parties from sources listed in Annex A to the Kyoto Protocol amounted to 9,307.6 Mt CO₂ eq. This is 22.5 per cent lower than the base year level defined under the Kyoto Protocol (see figure 1). The average annual GHG emissions of Annex B Parties in the first commitment period from sources listed in Annex A to the Kyoto Protocol amounted to 9,344.6 Mt CO₂ eq, which is 22.2 per cent lower than the base year level defined under the Kyoto Protocol (see figure 1).

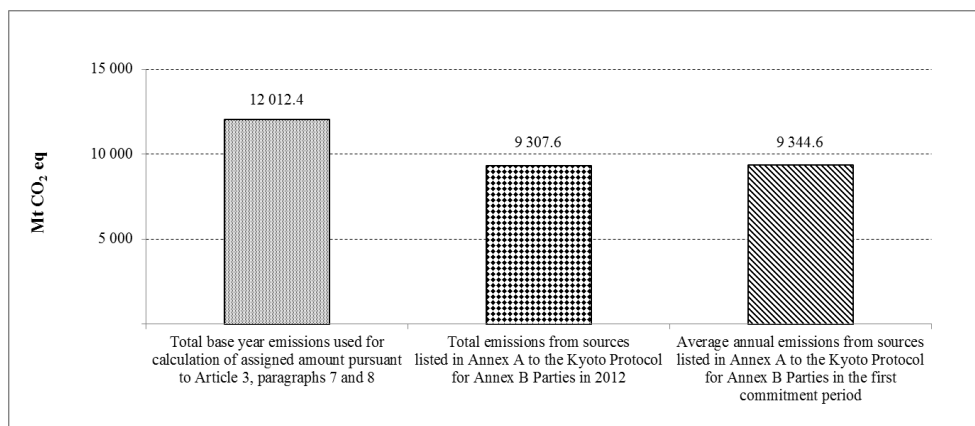
¹⁴ The total includes emissions of the European Union but excludes emissions of the individual member States in order to avoid double counting.

¹⁵ The total GHG emissions in the base year refers to the total GHG emissions that were used for calculation of assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol.

¹⁶ The 15 member States at the time of the deposit by the European Community of its instrument of approval of the Kyoto Protocol, 31 May 2002.

¹⁷ The total includes the assigned amount of the European Union but does not include the assigned amounts of the individual member States in order to avoid double counting.

Figure 1
Total greenhouse gas emissions in 2012 and average annual greenhouse gas emissions for the first commitment period for Annex B Parties from sources listed in Annex A to the Kyoto Protocol



Note: The values for the total greenhouse gas emissions from sources listed in Annex A to the Kyoto Protocol for Annex B Parties in 2012 are based on information submitted and reviewed in 2014; these data are final for the first commitment period.

2. Greenhouse gas emissions and removals from land use, land-use change and forestry activities

25. Twenty-eight Parties chose to account for LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol for the entire first commitment period (accounting once at the end of the commitment period) and eight chose to account for them annually. Twelve Parties elected not to account for any of the LULUCF activities under Article 3, paragraph 4, of the Kyoto Protocol, while the other Parties chose to account for at least one of them (see table 4).

Table 4

Summary of methods chosen by Parties in accounting for activities under Article 3, paragraph 4, of the Kyoto Protocol for the first commitment period

Activity under Article 3, paragraph 4, of the Kyoto Protocol	Number of Parties by type of accounting period elected		
	No accounting	Annually	Entire commitment period
Forest management	13	5	18
Cropland management	33	1	2
Grazing land management	34	1	1
Revegetation	33	0	3

Note: The table does not include the European Union, as the Party does not have specific values for the parameters because the land use, land-use change and forestry activities and accounting periods elected for those activities under Article 3, paragraph 4, of the Kyoto Protocol are different for each member State.

26. In accordance with decision 15/CMP.1, Annex B Parties are required to include in their annual GHG inventories information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, of the Kyoto Protocol at the time when the inventory submission under the Convention is due for the first year of the first commitment period of the Kyoto Protocol. As at 9 November 2015, all 37 Annex B Parties had reported such information. Table 5 shows a summary of the information provided pursuant to

decision 16/CMP.1 on the total net anthropogenic GHG emissions and removals for Annex B Parties from each of the LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol for 2012.

Table 5

Summary of total net anthropogenic greenhouse gas emissions and removals for Annex B Parties from land use, land-use change and forestry activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol for 2012

<i>Land use, land-use change and forestry activity under Article 3, paragraphs 3 and 4, of the Kyoto Protocol</i>	<i>Number of reporting Parties</i>	<i>Net greenhouse gas emissions or removals (t CO₂ eq) in 2012</i>
Article 3, paragraph 3, activities		
Afforestation and reforestation	36	-91 691 681
Deforestation	36	91 818 719
Net emissions or removals		127 038
Article 3, paragraph 4, activities		
Forest management	24	-1 028 679 391
Cropland management	4	1 736 204
Grazing land management	3	596 730
Revegetation	3	-2 902 718
Net emissions or removals		-1 029 249 175

27. As at 31 December 2014, eight Parties had issued 482,854,228 RMUs into their national registries resulting from their activities under Article 3, paragraph 3, and elected activities under Article 3, paragraph 4, of the Kyoto Protocol, accounted in accordance with decisions 13/CMP.1 and 16/CMP.1.

C. Assigned amount and Annex A total greenhouse gas emissions in the first commitment period

28. This section provides a comparison of the total assigned amount for each of the 37 Annex B Parties along with their Kyoto Protocol target and the total GHG emissions for the period 2008–2012 from sources listed in Annex A to the Kyoto Protocol for the first commitment period. The information provided in table 6 is not intended to indicate whether each of the Annex B Parties listed therein has met its commitment under Article 3, paragraph 1, of the Kyoto Protocol. The assessment of the compliance by each of these Parties with their commitments under Article 3, paragraph 1, of the Kyoto Protocol will be conducted by expert review teams in the first half of 2016.¹⁸ Any determination of non-compliance with such commitments would thereafter be made by the enforcement branch of the Compliance Committee.

¹⁸ In accordance with decisions 13/CMP.1, 22/CMP.1 and 27/CMP.1.

Table 6
Assigned amounts and total greenhouse gas emissions from Annex A sources for the first commitment period of the Kyoto Protocol

Party	Assigned amounts pursuant to Article 3, paragraph 7 and 8 (t CO ₂ eq)	Total GHG emissions from Annex A sources (t CO ₂ eq)	Difference between emissions and from assigned amounts (%)	Kyoto Protocol target (%)
Australia	2 957 579 143	2 711 153 476	-8.3	8.0
Bulgaria	610 045 827	312 859 911	-48.7	-8.0
Croatia	148 778 503	144 820 156	-2.7	-5.0
Czech Republic	893 541 801	680 149 966	-23.9	-8.0
Estonia	196 062 637	95 304 517	-51.4	-8.0
European Union ^a	19 621 381 509	18 822 263 095	-4.1	-8.0
Austria	343 866 009	414 658 054	20.6	-13.0
Belgium	673 995 528	626 308 776	-7.1	-7.5
Denmark	276 838 955	297 947 591	7.6	-21.0
Finland	355 017 545	338 353 531	-4.7	0.0
France	2 819 626 640	2 538 856 531	-10.0	0.0
Germany	4 868 096 694	4 706 574 671	-3.3	-21.0
Greece	668 669 806	598 504 091	-10.5	25.0
Ireland	314 184 272	308 508 846	-1.8	13.0
Italy	2 416 277 898	2 479 638 840	2.6	-6.5
Luxembourg	47 402 996	60 116 132	26.8	-28.0
Netherlands	1 001 262 141	997 119 267	-0.4	-6.0
Portugal	381 937 527	362 098 075	-5.2	27.0
Spain	1 666 195 929	1 791 980 049	7.5	15.0
Sweden	375 188 561	305 573 749	-18.6	4.0
United Kingdom	3 412 080 630	3 017 236 560	-11.6	-12.5
Hungary	542 366 600	335 956 338	-38.1	-6.0
Iceland	18 523 847	23 356 071	26.1	10.0
Japan	5 928 257 666	6 392 411 719	7.8	-6.0
Latvia	119 182 130	56 453 901	-52.6	-8.0
Liechtenstein	1 055 623	1 175 109	11.3	-8.0
Lithuania	227 306 177	109 786 321	-51.7	-8.0
Monaco	495 221	471 255	-4.8	-8.0
New Zealand	309 564 733	372 797 621	20.4	0.0
Norway	250 576 797	266 824 503	6.5	1.0
Poland	2 648 181 038	2 006 265 534	-24.2	-6.0
Romania	1 279 835 099	615 929 959	-51.9	-8.0
Russian Federation	16 617 095 319	11 187 543 419	-32.7	0.0
Slovakia	331 433 516	227 690 025	-31.3	-8.0
Slovenia	93 628 593	98 542 441	5.2	-8.0
Switzerland	242 838 402	261 721 729	7.8	-8.0
Ukraine	4 604 184 663	1 999 434 250	-56.6	0.0
Total^b	57 641 914 844	46 722 911 316	-18.9	

Abbreviation: GHG = greenhouse gas.

^a The European Union (EU) clarified in the national inventory report of its 2014 submission that the EU-15 inventory covers the same geographical area as the inventories of the 15 member States

for their respective EU territories. However, as the inventories submitted by certain member States to the secretariat cover parts of their territories that are not within the EU, the total greenhouse gas emissions from Annex A sources of the EU-15 as reflected in this table are lower than the sum of the greenhouse gas emissions from Annex A sources of the individual member States.

^b The total includes the assigned amount of the EU but does not include the assigned amounts of the individual member States, in order to avoid double counting.

D. Transactions and holdings of Kyoto Protocol units in the first commitment period

29. This section provides a provisional overview of additions to, and subtractions from, the assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol at the end of 2014 for the 37 Annex B Parties that reported their SEF tables with information on Kyoto Protocol units in 2015. Monaco did not need to report such information in 2015 because it had not transferred or acquired any Kyoto Protocol units prior to 1 January 2015.¹⁹ Nevertheless, Monaco submitted its SEF tables in 2015.

1. Transactions of Kyoto Protocol units

30. Decision 14/CMP.1 classifies transactions of Kyoto Protocol units into two categories: internal and external. An internal transaction does not involve another national registry, whereas an external transaction involves the transaction of Kyoto Protocol units from one national registry to another.

31. Between 1 January and 31 December 2014, 22 Parties executed at least one form of internal transaction. The transactions were mainly related to: (1) issuance and/or conversion of Kyoto Protocol units in relation to joint implementation projects under Article 6 of the Kyoto Protocol and (2) cancellation of Kyoto Protocol units, which were reported under the “other cancellation” accounts. Five Parties issued 31,138,841 ERUs into their registries by converting the same amount of AAUs previously issued and held in their national registries, and six Parties issued 59,019,965 RMUs into their national registries. Two Parties transferred 27,976 AAUs in aggregate into the “other cancellation” accounts. Seventeen Parties, of which 11 are European Union member States, transferred a total quantity of 3,652,355 CERs into the “other cancellation” accounts. Finally, eight Parties, six of which are European Union member States, transferred 282,274 ERUs into the “other cancellation” accounts.

32. A summary of information on the total quantities of Kyoto Protocol units and the number of Parties involved in external transactions that occurred between 1 January and 31 December 2014 is provided in table 7.

Table 7

Total Kyoto Protocol units acquired or transferred through external transactions between 1 January and 31 December 2014

Transaction type		Kyoto Protocol units by external transaction type (Mt CO ₂ eq)					
		AAUs	ERUs	RMUs	CERs ^d	tCERs	lCERs
Addition	Quantities acquired or forwarded ^b	14.0	189.4	0.0	170.2	0.7	0.0
	Parties involved	17	27	0	28	9	0
Subtraction	Quantities transferred	16.0	154.6	0.0	103.3	0.0	0.0
	Parties involved	4	26	0	24	0	0

¹⁹ Decision 14/CMP.1, annex, paragraph 3.

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, RMUs = removal units, tCERs = temporary certified emission reductions.

^a CERs are forwarded by the clean development mechanism registry.

^b The figures do not include data on external transactions reported by the 15 individual member States of the European Union in order to avoid double counting.

2. Holdings of Kyoto Protocol units by holding account type as at 31 December 2014

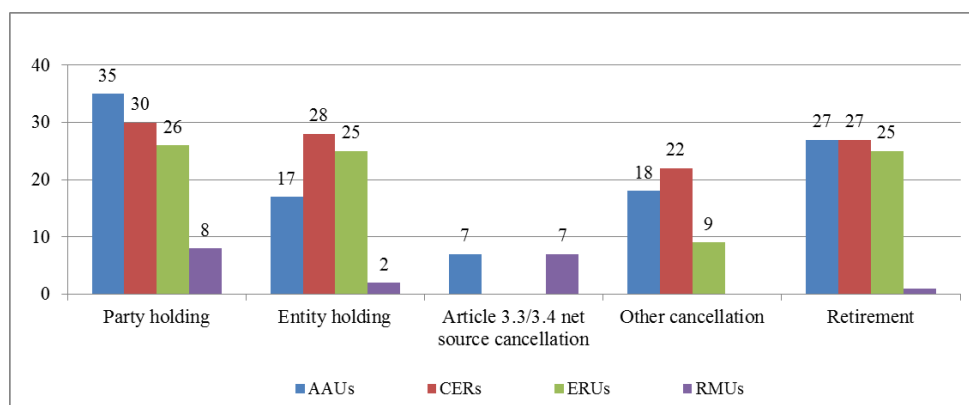
33. For the 36 Annex B Parties that reported information on Kyoto Protocol units pursuant to decisions 13/CMP.1 and 15/CMP.1, there were 59,616.1 million Kyoto Protocol units²⁰ by the end of 2014, which included 56,793.5 million AAUs, 871.6 million ERUs, 669.5 million RMUs, 1,275 million CERs and 6.5 million tCERs in the different holding accounts, including different cancellation and retirement accounts.

34. Figure 2 shows the number of Parties that hold Kyoto Protocol units in different account types. A summary of the total quantities of the different Kyoto Protocol units by account type, as at 31 December 2014, for 36 Annex B Parties is provided in table 8. Table 9 breaks down total Kyoto Protocol units by Party.

35. Detailed information on the status of accounts for each Annex B Party can be found in document FCCC/KP/CMP/2015/6/Add.1.

Figure 2

Number of Annex B Parties holding Kyoto Protocol units by account type in 2014



Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, RMUs = removal units.

Table 8

Summary of total quantities^a of Kyoto Protocol units by account type for Annex B Parties as at 31 December 2014

Account type	Total quantities by unit type (Mt CO ₂ eq)					
	AAUs	ERUs	RMUs	CERs	tCERs	ICERs
Party holding	47 963.4	563.9	482.9	590.0	4.0	0
Entity holding	114.3	105.3	0.553	98.2	2.4	0
Article 3, paragraphs 3 and 4, net source cancellation	143.1	0	185.8	0	0	0
Non-compliance cancellation	0	0	0	0	0	0
Other cancellation	3.1	3.3	0	13.3	0.008	0

²⁰ The total does not include data reported by the 15 individual member States of the European Union in order to avoid double counting.

<i>Account type</i>	<i>Total quantities by unit type (Mt CO₂ eq)</i>					
	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>lCERs</i>
Retirement	8 569.6	199.1	0.288	573.4	0	0
tCER replacement for expiry	0	0	0	0	0	0
lCER replacement for expiry	0	0	0	0	0	0
lCER replacement for reversal in storage	0	0	0	0	0	0
lCER replacement for non-submission of CR	0	0	0	0	0	0
Total	56 793.5	871.6	669.5	1 275.0	6.5	0

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, CR = certification report, ERUs = emission reduction units, lCERs = long-term certified emission reductions, RMUs = removal units, tCERs = temporary certified emission reductions.

^a "Total quantities" refers to the sum of the Kyoto Protocol units in each account type for 36 Annex B Parties.

Table 9
Total quantities^a of Kyoto Protocol units for Annex B Parties as at 31 December 2014

<i>Annex B Party</i>	<i>Total quantities by unit type (Mt CO₂ eq)</i>					
	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>lCERs</i>
Australia	2 957.6	0.250	96.0	0.525	0	0
Bulgaria	547.7	15.0	0	10.2	0	0
Croatia	148.8	0	0	0	0	0
Czech Republic	683.2	18.7	0	19.9	0	0
Estonia	117.6	2.3	0	0.442	0	0
European Union ^b	20 383.7	601.1	71.0	916.8	5.0	0
Austria	366.0	11.1	0	33.4	0	0
Belgium	607.1	6.8	0	31.6	0	0
Denmark	267.5	15.2	8.9	10.4	0	0
Finland	326.4	6.3	0	16.3	0.018	0
France	2 634.3	19.9	62.1	58.2	0	0
Germany	4 590.7	133.3	0	173.4	0	0
Greece	613.1	11.3	0	16.7	0	0
Ireland	292.2	2.9	0	9.0	1.2	0
Italy	2 280.3	29.3	0	71.8	0.131	0
Luxembourg	53.7	0.390	0	5.3	0.263	0
Netherlands	948.2	33.5	0	50.9	0.027	0
Portugal	345.5	4.6	0	14.3	0	0
Spain	1 645.0	25.9	0	100.0	3.4	0
Sweden	350.2	3.4	0	16.6	0.059	0
United Kingdom	3 301.5	39.0	0	82.0	0	0
Hungary	495.1	3.8	6.3	6.2	0	0
Iceland	18.5	0.005	0	0.007	0	0
Japan	6 155.3	22.1	0	143.1	1.3	0
Latvia	76.8	0.473	0	1.2	0	0
Liechtenstein	1.0	0	0.015	0.436	0	0
Lithuania	169.9	7.5	0	3.6	0	0
Monaco	0	0	0	0	0	0
New Zealand	305.8	100.9	9.1	18.1	0	0
Norway	266.5	3.1	0	25.8	0.035	0

<i>Annex B Party</i>	<i>Total quantities by unit type (Mt CO₂ eq)</i>					
	<i>AAUs</i>	<i>ERUs</i>	<i>RMUs</i>	<i>CERs</i>	<i>tCERs</i>	<i>lCERs</i>
Poland	2 399.5	35.5	0	64.9	0	0
Romania	1 124.3	16.3	0	16.0	0	0
Russian Federation	16 356.0	11.5	477.9	0	0	0
Slovakia	244.9	0.293	0	9.7	0	0
Slovenia	87.0	4.7	0	1.5	0	0
Switzerland	253.8	27.6	9.3	36.6	0.115	0
Ukraine	4 000.5	0.533	0	0	0	0

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, lCERs = long-term certified emission reductions, RMUs = removal units, tCERs = temporary certified emission reductions.

^a “Total quantities” refers to the sum of the Kyoto Protocol units in each account type for each Annex B Party.

^b The Parties listed under the European Union were the 15 member States at the time of the deposit by the European Community of its instrument of approval to the Kyoto Protocol, 31 May 2002.

E. Transactions and holdings of Kyoto Protocol units in the second commitment period

36. This section provides a provisional overview²¹ of transfers and acquisitions of CERs at the end of 2013 and 2014 in accordance with paragraph 13 of decision 1/CMP.8 for the seven Annex B Parties that submitted their SEF tables with information on Kyoto Protocol units in 2015 for the second commitment period.

1. Transactions of Kyoto Protocol units

37. Between 1 January and 31 December 2013, no Party executed any form of internal transaction.

38. Between 1 January and 31 December 2014, one Party executed at least one form of internal transaction. The transactions were mainly related to: (1) issuance and/or conversion of Kyoto Protocol units in relation to clean development mechanism project activities under Article 12 of the Kyoto Protocol and (2) cancellation of Kyoto Protocol units. One Party transferred a total quantity of 31,122 CERs into the “voluntary cancellation” accounts.

39. A summary of information on the total quantities of CER units and the number of Parties involved in external transactions that occurred between 1 January 2013 and 31 December 2014 is provided in table 10.

Table 10

Total certified emission reductions units acquired or transferred through external transactions between 1 January 2013 and 31 December 2014

<i>Transaction type</i>	<i>Certified emission reduction units^a by external transaction type (Mt CO₂ eq)</i>	
	<i>2013</i>	<i>2014</i>
Addition		
Quantities acquired or forwarded ^b	0.4	7.1
Parties involved	1	5

²¹ At the time of the preparation of this document, the annual review of the information reported by Parties included in Annex I with a quantified emissions limitation or reduction commitment inscribed in the third column of Annex B as contained in annex I to decision 1/CMP.8 in 2015 had not been initiated.

<i>Transaction type</i>		<i>Certified emission reduction units^a by external transaction type (Mt CO₂ eq)</i>	
		<i>2013</i>	<i>2014</i>
Subtraction	Quantities transferred	0.2	2.5
	Parties involved	1	4

^a Certified emission reduction units are forwarded by the clean development mechanism registry.

^b The values do not include data on external transactions reported by the individual member States of the European Union in order to avoid double counting.

2. Holdings of certified emission reductions units as at 31 December 2013 and 31 December 2014

40. There were 231,622 CERs²² by the end of 2013 and 4,750,470 CERs²³ by the end of 2014 in the respective holding accounts, including the respective cancellation and retirement accounts, of the seven Annex B Parties referred to in paragraph 36 above. The total quantities of the CER units held by these seven Annex B Parties as at 31 December 2013 and 31 December 2014 are provided in table 11.

41. Detailed information on the status of accounts for each Annex B Party can be found in document FCCC/KP/CMP/2015/6/Add.1.

Table 11

Total quantities of certified emission reductions units for Annex B Parties as at 31 December 2013 and 31 December 2014

<i>Annex B Party</i>	<i>Total quantities of CERs (t CO₂ eq)</i>	
	<i>31 December 2013</i>	<i>31 December 2014</i>
Australia	NO	NO
France	NO	389
Japan	NO	51 293
Monaco	NO	NO
New Zealand	NO	NO
Norway	NO	987 881
Switzerland	231 622	3 710 907

Abbreviations: CER = certified emission reduction, NO = not occurring.

²² The total does not include data reported by the individual member States of the European Union in order to avoid double counting.

²³ As footnote 22 above.