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## **Report on the review of the report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol of Cyprus**

**Note by the expert review team**


### *Summary*

According to decision 2/CMP.8, each Party with a quantified emission limitation or reduction commitment inscribed in the third column of Annex B to the Kyoto Protocol, as contained in annex I to decision 1/CMP.8, shall submit to the secretariat a report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol. In accordance with decision 22/CMP.1, annex, paragraph 11, in conjunction with decision 4/CMP.11, the report to facilitate the calculation of the assigned amount is subject to a review. This report presents the results of the technical review of the report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol, conducted by an expert review team in accordance with the “Guidelines for review under Article 8 of the Kyoto Protocol”. The review took place from 12 to 17 September 2016 in Nicosia, Cyprus.

GE.17-18402(E)



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## I. Introduction<sup>1</sup>

1. The review of the report to facilitate the calculation of the assigned amount for the second commitment period of the Kyoto Protocol (hereinafter referred to as the report to facilitate the calculation of the assigned amount) of Cyprus was organized by the UNFCCC secretariat, in accordance with the “Guidelines for review under Article 8 of the Kyoto Protocol”.<sup>2</sup> The review took place from 12 to 17 September 2016 in Nicosia, Cyprus, and was coordinated by Mr. Vlad Trusca, Mr. Wojtek Galinski and Ms. Claudia do Valle (UNFCCC secretariat). Table 1 provides information on the composition of the expert review team (ERT) that conducted the review of Cyprus.

2. A draft version of this report was communicated to the Government of Cyprus, which provided no comments.

Table 1

### Composition of the expert review team that conducted the review of Cyprus

<i>Area of expertise</i>	<i>Name</i>	<i>Party</i>
Generalist	Mr. Mikhail Gitarskiy	Russian Federation
Energy	Mr. Norbert Nziramasanga	Zimbabwe
IPPU	Mr. Marius Țăranu	Republic of Moldova
Agriculture	Mr. Donald Kamdonyo	Malawi
LULUCF	Ms. Thelma Krug	Brazil
Waste	Mr. Gustavo Mozzer	Brazil
Lead reviewers	Mr. Mikhail Gitarskiy Mr. Norbert Nziramasanga	

*Abbreviations:* IPPU = industrial processes and product use, LULUCF = land use, land-use change and forestry.

## II. Summary of the reporting on mandatory elements in the report to facilitate the calculation of the assigned amount

3. Table 2 provides a summary of the ERT’s assessment of the reporting of mandatory elements by Cyprus in its report to facilitate the calculation of the assigned amount. Key data and elections by the Party are included in table 5.

Table 2

### Expert review team’s assessment of the reporting of mandatory elements by Cyprus in its report to facilitate the calculation of the assigned amount

<i>Item</i>	<i>Reported</i>	<i>Comment</i>
<i>General Party information</i>		
Date of submission		Original submission: 15 June 2016

<sup>1</sup> At the time of publication of this report, Cyprus had submitted its instrument of ratification of the Doha Amendment; however, the amendment had not yet entered into force. The implementation of the provisions of the Doha Amendment is therefore considered in this report in the context of decision 1/CMP.8, paragraph 6, pending the entry into force of the amendment.

<sup>2</sup> Decision 22/CMP.1 and its annex and any revisions contained in decision 4/CMP.11 and its annex I.

<i>Item</i>	<i>Reported</i>	<i>Comment</i>
Are there any missing categories or issues related to completeness <sup>a</sup> in the reporting of GHG emissions by sources and removals by sinks for the base year or period?	Yes	For further information, see document FCCC/ARR/2016/CYP, annex III
Was the GHG inventory recalculated in accordance with decision 4/CMP.7 for all years from 1990 to the most recent year available?	Yes	
Did the Party report the base year for HFCs, PFCs and SF <sub>6</sub> ?	Yes	See annex I, table 4
Did the Party report the base year for NF <sub>3</sub> ?	Yes	See annex I, table 4
<i>Information related to agreement by the Party under Article 4 of the Kyoto Protocol to implement commitments jointly</i>		
Has complete information been reported in accordance with decision 3/CMP.11, paragraph 11, by the Party in fulfilment of its agreement under Article 4 of the Kyoto Protocol, in relation to the following:		
(a) Application of decision 1/CMP.8, paragraphs 23–26, related to carry-over and the previous period surplus reserve account	NA	Cyprus had no quantified emission limitation or reduction target in the first commitment period
(b) Calculation of base-year emissions	No	See annex I, table 4. For further information, see ID#2 and ID#3 in table 3
(c) Calculation of the assigned amount	Yes	See annex I, table 4. For further information, see ID#1, ID#2 and ID#3 in table 3
(d) Calculation of the commitment period reserve	Yes	See annex I, table 4. For further information, see ID#5 in table 3
(e) Application and calculation pursuant to decision 2/CMP.7, annex, paragraph 13	Yes	See annex I, table 4. For further information, see ID#8 in table 3
<i>Information related to the assigned amount and the commitment period reserve</i>		
Was the assigned amount in the original submission calculated in accordance with Article 3, paragraph 8, of the Kyoto Protocol, Article 3, paragraphs 7 bis and 8 bis, as contained in the Doha Amendment, and decision 13/CMP.1 in conjunction with decision 3/CMP.11?	No	See annex I, table 4. For further information, see ID#1, ID#2 and ID#3 in table 3
Has the Party reported in the original submission the difference between the assigned amount for the second commitment period and average annual emissions for the first three years of the first commitment period, multiplied by eight?	Yes	For further information, see ID#4 in table 3
Has the Party indicated in the original submission the approach <sup>b</sup> used to calculate average annual emissions for the first three years of the first commitment period?	Yes	For further information, see ID#4 in table 3

<i>Item</i>	<i>Reported</i>	<i>Comment</i>
Did land-use change and forestry constitute a net source of GHG emissions in the base year, and therefore did the Party include emissions from deforestation in the calculation of the assigned amount?	No	For further information, see ID#1 and ID#3 in table 3
Was the commitment period reserve in the original submission calculated in accordance with the annex to decision 18/CP.7, the annex to decision 11/CMP.1, the annex to decision 13/CMP.1, paragraph 8 quinquies, and decision 1/CMP.8, paragraph 18?	Yes	See annex I, table 4. For further information, see ID#5 in table 3
<i>Information related to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol</i>		
Has the Party reported a definition of forest in accordance with decision 2/CMP.8, annex I, paragraph 1(f)?	Yes	See annex I, table 4
Has the Party reported a comparison between the values used in the forest definition and values that have been historically reported to FAO or other international bodies?	Yes	For further information, see ID#6 in table 3
If the Party identified activities elected under Article 3, paragraph 4, of the Kyoto Protocol, are these elections in accordance with decision 2/CMP.7, paragraphs 6–8?	NA	See annex I, table 4
Is information reported on how the national system under Article 5, paragraph 1, of the Kyoto Protocol will identify land areas associated with all additional elected activities and how the Party ensures that land that was accounted for in the first commitment period continues to be accounted for in the second commitment period?	NA	
Has the Party identified for each activity under Article 3, paragraphs 3 and 4, of the Kyoto Protocol whether it intends to account annually or for the entire commitment period?	Yes	See annex I, table 4
Did the Party provide information on the forest management reference level, including, if appropriate, information on technical corrections and information on how emissions from harvested wood products originating from forests prior to the start of the second commitment period have been calculated in the reference level?	No	See annex I, table 4. For further information, see ID#7 in table 3
Has the Party reported the quantity amounting to 3.5 % of the base-year GHG emissions, excluding LULUCF in the original submission?	Yes	See annex I, table 4. For further information, see ID#8 in table 3
Did the Party indicate whether it intends to apply the provisions to exclude emissions from natural disturbances for the accounting for afforestation and reforestation and/or forest management and provide the relevant information in accordance with decision 2/CMP.7, annex, paragraph 33?	Yes	See annex I, table 4
<i>Information related to the national system and national registry</i>		
Was a description of the national system provided, in accordance with the guidelines for national systems under Article 5, paragraph 1, of the Kyoto Protocol?	No	For further information, see ID#9, ID#10 and ID#11 in table 3, and annex II
Was a description of the national registry provided, in accordance with the requirements contained in the annex	Yes	For further information, see ID#12 and ID#13 in

<i>Item</i>	<i>Reported</i>	<i>Comment</i>
to decision 13/CMP.1, the annex to decision 5/CMP.1 and the technical standards for data exchange between registry systems adopted by the CMP?		table 3, and annex II

*Abbreviations:* CMP = Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol, FAO = Food and Agriculture Organization of the United Nations, GHG = greenhouse gas, LULUCF = land use, land-use change and forestry, NA = not applicable.

<sup>a</sup> Issues related to missing categories and completeness are only for those categories for which methods are available in the Intergovernmental Panel on Climate Change (IPCC) 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

<sup>b</sup> Parties may elect to calculate average annual emissions for the first three years of the first commitment period by including either the gases and sources listed in Annex A to the Kyoto Protocol, or the GHGs, sectors and source categories used to calculate the assigned amount for the second commitment period.

### III. Technical assessment of the elements reviewed

4. In accordance with decision 22/CMP.1, and in conjunction with decisions 4/CMP.11 and 10/CMP.11, the review of the report to facilitate the calculation of the assigned amount for Cyprus has been undertaken together with the review of the inventory submission for the first year of the second commitment period.<sup>3</sup> Table 3 contains additional information, if any, to support the ERT’s assessment included in table 2 above of the Party’s capacity to account for its emissions and the assigned amount, specifically related to: the calculation of the assigned amount for the second commitment period and any adjustments applied; information related to Article 3, paragraph 7 ter, as contained in the Doha Amendment, information related to reporting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol; calculation of the commitment period reserve; and the national system and national registry.

Table 3

**Additional findings of the expert review team, if any, related to Cyprus’s reporting of mandatory elements in its report to facilitate the calculation of the assigned amount**

<i>ID#</i>	<i>Finding classification</i>	<i>Description of the finding</i>	<i>Classification of problem</i>
1.	Calculation of the assigned amount	The ERT noted that the European Union, its member States and Iceland stated that they will fulfil their reduction targets under the second commitment period jointly. <sup>a</sup> The joint assigned amount for the European Union, its member States and Iceland was calculated pursuant to the quantified emission limitation or reduction commitment listed in the third column of the table contained in Annex B to the Kyoto Protocol, while the assigned amount of each member State was determined in accordance with the terms of the joint fulfilment agreement. Specifically, the assigned amount for Cyprus was fixed based on Annex II to European Commission decision 2013/162/EU and as adjusted by Commission implementing decision 2013/634/EU <sup>b</sup>	Not a problem
2.	Calculation of the assigned amount	Cyprus reported its base-year emissions in the report to facilitate the calculation of the assigned amount as 5 560 247 t CO <sub>2</sub> eq. However, during the review, the ERT identified an error that led to the incorrect calculation of the base-year emissions, and the correct value, based on the original submission, should have been 5 646 847 t CO <sub>2</sub> eq  In addition, during the review, the ERT identified overestimations of the	Accuracy

<sup>3</sup> The annual review report on the 2016 inventory submission of Cyprus is available at <<http://unfccc.int/resource/docs/2017/arr/cyp.pdf>>, while the annual review report on the 2015 inventory submission of Cyprus is available at <<http://unfccc.int/resource/docs/2016/arr/cyp.pdf>>.

ID#	Finding classification	Description of the finding	Classification of problem
		<p>base-year emissions for several categories, which were not resolved during the review, and therefore included these issues in the list of potential problems and further questions raised by the ERT (see document FCCC/ARR/2016/CYP)</p> <p>In response to this list, Cyprus submitted revised CRF tables on 27 January 2017. Based on the revised estimates, the ERT recalculated the base-year emissions in accordance with decision 2/CMP.8, annex I, paragraph 1(b); that is, using 1990 for CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O, and 1995 for HFCs, PFCs, SF<sub>6</sub> and NF<sub>3</sub> (in the case of Cyprus). The correct base-year emission estimate is 5 627 236 t CO<sub>2</sub> eq (see also table 4)</p> <p>The revised estimates for the base-year emissions do not affect the assigned amount for Cyprus referred to in table 4 because the assigned amount is determined based on the allocations in the European Union decisions noted in ID#1 above, and is not calculated using the base-year emission estimates for Cyprus. The ERT invites Cyprus to communicate the revised base-year emission estimates to the European Union with a view of being considered in the calculation of the joint assigned amount of the European Union, its member States and Iceland</p>	
3.	Calculation of the assigned amount	<p>According to Article 3, paragraph 7 bis, of the Doha Amendment and paragraph 5(b) in decision 13/CMP.1, in conjunction with decision 3/CMP.11, those Parties for which land-use change and forestry constituted a net source of GHG emissions in the base year shall include in their emissions from that year the aggregate anthropogenic carbon dioxide equivalent emissions by source minus removals by sink from forest land subjected to conversion of forests (deforestation)</p> <p>In the absence of a complete inventory for LULUCF (see document FCCC/ARR/2016/CYP, L.1 and L.10), the ERT was not able to verify whether or not LULUCF is a net source in the base year or to assess emissions from deforestation. During the review, the Party informed the ERT that LULUCF did not constitute a net source of GHG emissions in the base year. The ERT agreed and concluded that emissions from deforestation are not to be included in the base-year emissions for the purpose of calculating the assigned amount for the second commitment period of the Kyoto Protocol</p>	Accuracy
4.	Reporting pursuant to Article 3.7 ter of the Doha Amendment	<p>The Party indicated that the provisions of Article 3, paragraph 7 ter, will be subject to joint fulfilment by the European Union its member States and Iceland. In line with the terms of the joint fulfilment of the European Union, its member States and Iceland under Article 3 of the Kyoto Protocol, and as described in the report to facilitate the calculation of the assigned amount of the European Union, Article 3, paragraph 7 ter, of the Doha Amendment is applied to the joint assigned amount of the European Union, its member States and Iceland for the second commitment period. In its report, the European Union includes the value for the difference between the joint assigned amount for the second commitment period and average annual emissions for the first three years of the first commitment period for the member States and Iceland, multiplied by eight. The report of the European Union also clarifies that the approach used to calculate average annual emissions for the first three years of the first commitment period includes the gases and sources listed in Annex A to the Kyoto Protocol</p>	Not a problem
5.	Calculation of the commitment period reserve	<p>The ERT noted that the commitment period reserve was calculated in accordance with the annex to decision 18/CP.7, the annex to decision 11/CMP.1 and decision 1/CMP.8, paragraph 18</p> <p>In accordance with decision 11/CMP.1, annex, paragraph 6, and decision</p>	Not a problem

ID#	Finding classification	Description of the finding	Classification of problem
		<p>1/CMP.8, paragraph 18, each Party included in Annex I shall maintain, in its national registry, a commitment period reserve which should not drop below 90 % of the Party's assigned amount calculated pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol, or 100 % of eight times its most recently reviewed inventory, whichever is lowest</p> <p>Cyprus's assigned amount multiplied by 90 % is equal to 42 705 115 t CO<sub>2</sub> eq. Cyprus's 2014 total emissions without LULUCF (8 453 767 t CO<sub>2</sub> eq) multiplied by eight is equal to 67 630 140 t CO<sub>2</sub> eq. Based on the calculations the correct commitment period reserve of Cyprus is 42 705 115 t CO<sub>2</sub> eq, as indicated by the Party in its initial report</p>	
6.	Accounting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	Cyprus reported in section 9.1.1 of its 2016 NIR that the forest definition is in line with the Forest National Law of 2012 (25 (I)/2012) and in accordance with the definitions of the Food and Agriculture Organization of the United Nations in its <i>Global Forest Resources Assessment 2015</i>	Not a problem
7.	Accounting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	The ERT noted that Cyprus has not reported in its initial report to facilitate the calculation of the assigned amount any information on how technical correction is considered in the elaboration of its GHG inventory	Accuracy
8.	Accounting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	<p>The forest management cap is calculated as 3.5 % of the base-year emissions, multiplied by the duration of the commitment period (eight years)</p> <p>Cyprus reported its forest management cap in the report to facilitate the calculation of the assigned amount as 1 556 869 t CO<sub>2</sub> eq. However, no value for the forest management cap was included in the CRF table "accounting"</p> <p>Based on the submitted revised estimates and the recalculation of the base year (see ID#2 above), 3.5 % of total base-year GHG emissions amounts to 196.953 kt CO<sub>2</sub> eq, which, multiplied by eight, amounts to 1 575.626 kt CO<sub>2</sub> eq</p>	Not a problem
9.	National system	<p>The ERT noted that no specific legal frameworks have been established in Cyprus that define the roles and responsibilities of specific ministries, agencies and other entities in relation to timely data provision and national GHG inventory preparation as outlined in decision 19/CMP.1 and reaffirmed by decisions 3/CMP.11 and 4/CMP.11. The ERT further noted that a functional national system is part of the eligibility criteria for participation in the second commitment period of the Kyoto Protocol</p> <p>During the review, Cyprus provided a workplan for enhancing the functionality of the national system to the ERT (see ID#11 below). The Party also explained the institutional arrangements for the preparation of the inventory. MADRE has been given the overall responsibility for national GHG inventory preparation. The designated departments under MADRE perform activity data collection, selection of methods and parameters, GHG emission estimates and compilation of the national inventory submission. Other institutions involved in the preparation of the inventory include the Energy, Industry and Technology Services of the Ministry of Energy, the Ministry of Transport, the Department for Labour Inspection of the Ministry of Labour, the Statistical Service of the Ministry of Finance, the Electricity Authority of Cyprus and private companies such as Vassiliko Cement</p>	Not a problem



ID#	Finding classification	Description of the finding	Classification of problem
		<p>Works plc and EME Ltd. Their specific responsibilities in the inventory development process have been mainly defined as data and information providers</p> <p>To enhance its legal framework and institutional arrangements for the preparation of the national GHG inventory, Cyprus decided to proceed with a draft decision of the Council of Ministers. The draft decision was elaborated and sent for peer review to the stakeholders involved. The Party expects that the decision will be taken by the Council of Ministers in 2017</p>	
10.	National system	<p>The ERT noted that the report to facilitate the calculation of the assigned amount of Cyprus did not include the information on a single national entity to be established under Article 5 of the Kyoto Protocol as outlined in decision 19/CMP.1 and reaffirmed by decisions 3/CMP.11 and 4/CMP.11. During the review, Cyprus explained that MADRE has been assigned the functions of the designated governmental body responsible for the coordination and implementation of climate-related policy in Cyprus. The name, full affiliations and contact details of the responsible person in MADRE were provided to the ERT</p>	Not a problem
11.	National system	<p>The ERT considered, after reviewing the 2016 NIR and the information provided during the review, that the national system of Cyprus does not fully follow the requirements outlined in decision 19/CMP.1 in conjunction with decision 4/CMP.11. The ERT also considered that the national system is not performing some of the general and specific functions defined in the annex to decision 19/CMP.1 in conjunction with decision 3/CMP.11. The ERT included these issues in the list of potential problems and further questions raised by the ERT (see document FCCC/ARR/2016/CYP, G.9). In response to this list, Cyprus provided a workplan for enhancing functionality of the national system (see also ID#9 above). The workplan generally corresponds to the requirements of the guidelines for national systems as set in the annex to decision 19/CMP.1 in conjunction with decision 3/CMP.11</p>	Accuracy
12.	National registry	<p>The ERT noted that Cyprus has joined the European Union consolidated registry system and the national registry of Cyprus is currently under development in collaboration with the European Commission. The ERT further noted that the description of the national registry in the report to facilitate the calculation of the assigned amount of Cyprus does not fully conform with the registry requirements as set out in the annex to decision 13/CMP.1. In particular, the report does not include contact information for the designated organization and registry administrator, or a description of the standardized electronic database used for registry performance and publicly accessible information</p> <p>During the review, Cyprus informed the ERT that MADRE has been assigned the designated organization responsible for registry administration. The ERT was also provided with the contact information on the designated organization and informed of how to access the publicly available information through the European Union consolidated registry website</p>	Accuracy
13.	National registry	<p>The ERT noted that a thorough review of the national registry, as stipulated by the Article 8 review guidelines (part V, "Review of national registries"), will be undertaken in the context of the initialization of the national registry of Cyprus<sup>d</sup> as part of the European Union Community Registry. The registry currently available for Cyprus is limited to the European Union Emissions Trading System and effort-sharing decision. Preparation of the necessary infrastructure for the registry system under the Kyoto Protocol is under way</p>	Not a problem

ID#	Finding classification	Description of the finding	Classification of problem
		in collaboration with the European Commission	

*Abbreviations:* Annex A sources = source categories included in Annex A to the Kyoto Protocol, Article 8 review guidelines = “Guidelines for review under Article 8 of the Kyoto Protocol”, CRF = common reporting format, ERT = expert review team, GHG = greenhouse gas, LULUCF = land use, land-use change and forestry, MADRE = Ministry of Agriculture, Rural Development and Environment, NIR = national inventory report.

<sup>a</sup> The report to facilitate the calculation of the assigned amount for the European Union is available at <<http://unfccc.int/9499>>.

<sup>b</sup> At the time of publication of this report, the European Union had not yet submitted its instrument of ratification of the Doha Amendment and information on the joint implementation of such an amendment.

<sup>c</sup> Available at <<http://www.fao.org/forest-resources-assessment/en/>>.

<sup>d</sup> Pursuant to decision 16/CP.10, the administrator of the international transaction log, once registry systems become operational, is requested to facilitate an interactive exercise, including with experts from Parties to the Kyoto Protocol not included in Annex I to the Convention, demonstrating the functioning of the international transaction log with other registry systems. Information on this exercise will be included in its annual report of the administrator of the international transaction log to the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol.

#### IV. Questions of implementation

5. No questions of implementation were identified by the ERT during the review.

## Annex I

### Key relevant data for Cyprus

1. Table 4 provides key data and parameters for, and elections by, Cyprus, relevant for the implementation of the second commitment period of the Kyoto Protocol. The information included in table 4 is as given by the Party in its report to facilitate the calculation of the assigned amount, unless otherwise specified.

Table 4

#### Key relevant data for Cyprus<sup>a</sup>

<i>Key information or parameter provided</i>	<i>Comment</i>
<i>General Party information</i>	
Did the Party have a QELRC in the first commitment period?	No (see decision 1/CMP.8, annex I, section A)
Cyprus's QELRC in the second commitment period	Cyprus will implement its reduction target under the second commitment period jointly with the European Union, its member States and Iceland as described in ID#1 in table 3. The QELRC for the European Union, its member States and Iceland is 80 % of the base-year emissions
Has the Party reached an agreement under Article 4 of the Kyoto Protocol to fulfil its commitments jointly with other Parties?	Yes
Base year	1990
Base year for HFCs, PFCs and SF <sub>6</sub>	1995
Base year for NF <sub>3</sub>	1995
Base-year emissions, as reported by the Party	5 560 247 t CO <sub>2</sub> eq
Base-year emissions, final, as calculated by the ERT and agreed by the Party	5 627 236 t CO <sub>2</sub> eq (see also ID#2 in table 3)
<i>Information related to the calculation of the assigned amount and the commitment period reserve</i>	
Assigned amount, as reported by the Party and agreed by the ERT	47 450 128 t CO <sub>2</sub> eq (see also ID#1 and ID#2 in table 3)
Approach used to calculate the average annual emissions for the first three years of the first commitment period	This is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland and is based on the gases and sources listed in Annex A to the Kyoto Protocol
Difference between the assigned amount for the second commitment period and average annual emissions for the first three years of the first commitment period, multiplied by eight, as reported by the Party and agreed by the ERT	This is calculated on the basis of the joint assigned amount of the European Union, its member States and Iceland and is based on the gases and sources listed in Annex A to the Kyoto Protocol
Commitment period reserve, as reported by the Party and agreed by the ERT	42 705 115 t CO <sub>2</sub> eq (see also ID#5 in table 3)

<i>Key information or parameter provided</i>	<i>Comment</i>
<i>Information related to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol</i>	
LULUCF parameters	Minimum tree crown cover: 10 % Minimum land area: 0.3 ha Minimum tree height: 5 m
Elections under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	
(a) Afforestation/reforestation	Commitment period accounting
(b) Deforestation	Commitment period accounting
(c) Forest management	Commitment period accounting
(d) Cropland management	Not elected
(e) Grazing land management	Not elected
(f) Revegetation	Not elected
(g) Wetland drainage and rewetting	Not elected
FMRL	-0.157 Mt CO <sub>2</sub> eq/year
Technical corrections to the FMRL, as reported in the original submission	Not reported in the original submission (see also ID#7 in table 3)
3.5 % of total base-year GHG emissions, excluding LULUCF, as reported by the Party	194.609 kt CO <sub>2</sub> eq
3.5 % of total base-year GHG emissions, excluding LULUCF, final value, as calculated by the ERT and agreed by the Party	196.953 kt CO <sub>2</sub> eq (see also ID#8 in table 3)
3.5 % of total base-year GHG emissions, excluding LULUCF, multiplied by eight, as reported by the Party in the original submission	1 556.869 kt CO <sub>2</sub> eq
3.5 % of total base-year GHG emissions, excluding LULUCF, multiplied by eight, final value, as calculated by the ERT, and agreed by the Party	1 575.626 kt CO <sub>2</sub> eq (see also ID#8 in table 3)
Will the Party exclude emissions from natural disturbances in accounting for:	
(a) Afforestation and reforestation	No
(b) Forest management	Yes

*Abbreviations:* ERT = expert review team, FMRL = forest management reference level, GHG = greenhouse gas, LULUCF = land use, land-use change and forestry, QELRC = quantified emission limitation or reduction commitment.

2. Tables 5–7 provide an overview of total greenhouse gas emissions and removals, as submitted by Cyprus. Where a Party has decided to voluntarily report indirect carbon dioxide emissions, this is noted in the relevant table.

Table 5  
**Total greenhouse gas emissions for Cyprus, base year<sup>a</sup>–2014<sup>b</sup>**  
 (kt CO<sub>2</sub> eq)

	<i>Total GHG emissions excluding indirect CO<sub>2</sub> emissions</i>		<i>Total GHG emissions including indirect CO<sub>2</sub> emissions<sup>c</sup></i>		<i>Land-use change (Article 3.7 bis as contained in the Doha Amendment)<sup>d</sup></i>
	<i>Total including LULUCF</i>	<i>Total excluding LULUCF</i>	<i>Total including LULUCF</i>	<i>Total excluding LULUCF</i>	
Base year	5 529.94	5 627.24	5 529.94	5 627.24	NA
1990	5 527.35	5 624.65	5 527.35	5 624.65	
1995	6 927.90	7 046.93	6 927.90	7 046.93	
2000	8 253.22	8 326.89	8 253.22	8 326.89	
2010	9 405.63	9 571.66	9 405.63	9 571.66	
2011	9 127.29	9 296.16	9 127.29	9 296.16	
2012	8 606.44	8 769.37	8 606.44	8 769.37	
2013	7 847.93	8 020.10	7 847.93	8 020.10	
2014	8 280.54	8 453.77	8 280.54	8 453.77	

*Abbreviations:* GHG = greenhouse gas, LULUCF = land use, land-use change and forestry, NA = not applicable.

<sup>a</sup> Base year refers to the base year under the Kyoto Protocol, which is 1990 for CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O, and 1995 for HFCs, PFCs, SF<sub>6</sub> and NF<sub>3</sub>.

<sup>b</sup> Emissions/removals reported in the sector other (sector 6) are not included in total GHG emissions.

<sup>c</sup> The Party has not reported indirect CO<sub>2</sub> emissions in common reporting format table 6.

<sup>d</sup> The value reported in this column refers to 1990.

Table 6  
**Greenhouse gas emissions by gas for Cyprus, excluding land use, land-use change and forestry, 1990–2014<sup>a</sup>**  
 (kt CO<sub>2</sub> eq)

	<i>CO<sub>2</sub><sup>b</sup></i>	<i>CH<sub>4</sub></i>	<i>N<sub>2</sub>O</i>	<i>HFCs</i>	<i>PFCs<sup>c</sup></i>	<i>Unspecified mix of HFCs and PFCs<sup>c</sup></i>	<i>SF<sub>6</sub></i>	<i>NF<sub>3</sub><sup>c</sup></i>
1990	4 621.01	693.57	309.90	0.15			0.03	
1995	5 848.04	797.53	398.60	2.70			0.06	
2000	7 095.96	847.45	363.02	20.38			0.08	
2010	8 004.91	943.42	376.83	246.34			0.15	
2011	7 696.67	962.21	362.43	274.70			0.15	
2012	7 160.97	937.20	355.29	315.74			0.16	
2013	6 449.61	918.04	327.60	324.70			0.15	
2014	6 878.56	923.96	330.57	320.54			0.15	
<b>Per cent change 1990–2014</b>	<b>48.9</b>	<b>33.2</b>	<b>6.7</b>	<b>220 030.6</b>			<b>475.7</b>	

<sup>a</sup> Emissions/removals reported in the sector other (sector 6) are not included in total greenhouse gas emissions.

<sup>b</sup> Cyprus did not report indirect CO<sub>2</sub> emissions in common reporting format table 6.

<sup>c</sup> Values reported as blank in the Party's submission.

Table 7  
**Greenhouse gas emissions by sector for Cyprus, 1990–2014<sup>a, b</sup>**  
 (kt CO<sub>2</sub>eq)

	<i>Energy</i>	<i>IPPU</i>	<i>Agriculture</i>	<i>LULUCF</i>	<i>Waste</i>	<i>Other<sup>c</sup></i>
1990	3 940.66	765.07	532.00	-97.30	386.92	
1995	5 093.38	856.70	667.61	-119.03	429.24	
2000	6 344.87	883.60	633.50	-73.66	464.91	
2010	7 494.87	907.75	638.76	-166.03	530.27	
2011	7 201.96	920.01	628.44	-168.87	545.75	
2012	6 706.09	916.24	595.18	-162.92	551.85	
2013	5 751.20	1 160.04	551.43	-172.17	557.43	
2014	5 959.49	1 375.51	555.06	-173.22	563.71	
<b>Per cent change</b>	<b>51.2</b>	<b>79.8</b>	<b>4.3</b>	<b>78.0</b>	<b>45.7</b>	
<b>1990–2014</b>						

*Abbreviations:* IPPU = industrial processes and product use, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Emissions/removals reported in the sector other (sector 6) are not included in total greenhouse gas emissions.

<sup>b</sup> Cyprus did not report indirect CO<sub>2</sub> emissions in common reporting format table 6.

<sup>c</sup> Values reported as blank in the Party's submission.

## Annex II

### Additional information on the review of the national system and the national registry

#### Review of national systems

1. Table 8 contains the expert review team (ERT) assessment of whether or not the Party has successfully implemented the mandatory elements for the national system and included the relevant information in its report to facilitate the calculation of the assigned amount.

Table 8

#### Summary of reporting on mandatory elements of the national system of Cyprus

<i>Reporting element</i>	<i>Provided?</i>
<i>Inventory planning</i>	
Designated single national entity, including contact information	Yes
Defined/allocated specific responsibilities for inventory development process	Yes
Established process for approving the inventory	Yes
Elaborated quality assurance/quality control plan	Yes
Considered ways to improve inventory quality	No
<i>Inventory preparation</i>	
Identified key categories	Yes
Estimates prepared in line with the 2006 IPCC Guidelines	No
Sufficient activity data and emission factors collected to support methods selected	No
Conducted quantitative uncertainty analysis	Yes
Recalculations prepared in accordance with the 2006 IPCC Guidelines	NA
Inventory compiled in accordance with Article 7, paragraph 1, of the Kyoto Protocol	Yes
General QC (approach 1) procedures implemented	Yes
<i>Inventory management</i>	
Archived inventory information, including emission factors, activity data, documentation, QA/QC procedures, external/internal reviews, key category documentation and planned inventory improvements	No
Provided the ERT with access to archived information	Yes
Responded to requests for clarifying inventory information during the review process	Yes

*Abbreviations:* ERT = expert review team, NA = not applicable, QA = quality assurance, QC = quality control, 2006 IPCC Guidelines = 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

2. Table 9 contains the ERT assessment of whether or not the Party has successfully implemented the mandatory elements for national registries and included the relevant information in its report to facilitate the calculation of the assigned amount.



Table 9

**Summary of reporting on mandatory elements of the national registry of Cyprus**

<i>Reporting element</i>	<i>Provided?</i>
Name and contact information of registry administrator	Yes
Names of other Parties with which the Party cooperates, if applicable	Yes
Description of the database structure	No
Description of the capacity of the national registry	No
Description of how the national registry conforms to the technical DES between registry systems	No
Description of the procedures employed in the national registry to minimize discrepancies in the transactions of Kyoto Protocol units	No
Description of the steps taken to terminate transactions where a Party is notified of a discrepancy and to correct problems in the event of a failure to terminate the transaction	No
An overview of security measures employed in the national registry to prevent unauthorized manipulations and operator error, and an overview of how these measures are kept up-to-date	No
A list of the information publicly accessible by means of the user interface to the national registry	Yes
The Internet address of the interface to the Party's national registry	Yes
A description of measures taken to safeguard, maintain and recover data in order to ensure the integrity of data storage and the recovery of registry services in the event of a disaster	No
The results of any test procedures that might be available or developed with the aim of testing the performance, procedures and security measures of the national registry undertaken pursuant to the provisions of decision 19/CP.7 relating to the DES between registry systems	No

*Abbreviation:* DES = data exchange standard.

## Annex III

### Documents and information used during the review

#### A. Reference documents

“Guidelines for national systems for the estimation of anthropogenic greenhouse gas emissions by sources and removals by sinks under Article 5, paragraph 1, of the Kyoto Protocol”. Annex to decision 19/CMP.1. Available at <<http://unfccc.int/resource/docs/2005/cmp1/eng/08a03.pdf>>.

“Guidelines for the preparation of the information required under Article 7 of the Kyoto Protocol”. Annex to decision 15/CMP.1. Available at <<http://unfccc.int/resource/docs/2005/cmp1/eng/08a02.pdf>>.

“Guidelines for review under Article 8 of the Kyoto Protocol”. Annex to decision 22/CMP.1. Available at <<http://unfccc.int/resource/docs/2005/cmp1/eng/08a03.pdf>>.

“Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual greenhouse gas inventories”. Annex I to decision 24/CP.19. Available at <<http://unfccc.int/resource/docs/2013/cop19/eng/10a03.pdf#page=4>>.

“Guidelines for the technical review of information reported under the Convention related to greenhouse gas inventories, biennial reports and national communications by Parties included in Annex I to the Convention”. Annex to decision 13/CP.20. Available at <<http://unfccc.int/resource/docs/2014/cop20/eng/10a03.pdf#page=6>>.

“Implications of the implementation of decisions 2/CMP.7 to 4/CMP.7 and 1/CMP.8 on the previous decisions on methodological issues related to the Kyoto Protocol, including those relating to Articles 5, 7 and 8 of the Kyoto Protocol, Part I: Implications related to accounting and reporting and other related issues”. Decision 3/CMP.11. Available at <<http://unfccc.int/resource/docs/2015/cmp11/eng/08a01.pdf#page=5>>.

“Implications of the implementation of decisions 2/CMP.7 to 4/CMP.7 and 1/CMP.8 on the previous decisions on methodological issues related to the Kyoto Protocol, including those relating to Articles 5, 7 and 8 of the Kyoto Protocol, Part II: Implications related to review and adjustments and other related issues”. Decision 4/CMP.11. Available at <<http://unfccc.int/resource/docs/2015/cmp11/eng/08a01.pdf#page=30>>.

Intergovernmental Panel on Climate Change. 2006. *2006 IPCC Guidelines for National Greenhouse Gas Inventories*. Available at <<http://www.ipcc-nggip.iges.or.jp/public/2006gl/index.html>>.

Intergovernmental Panel on Climate Change. 2014. *2013 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol*. Available at <<http://www.ipcc-nggip.iges.or.jp/public/kpsg>>.

Intergovernmental Panel on Climate Change. 2014. *2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands*. Available at <<http://www.ipcc-nggip.iges.or.jp/public/wetlands/index.html>>.

#### B. Additional information provided by the Party

Responses to questions during the review were received from Ms. Nicoletta Kythreotou and Mr. Theodoulos Mesimeris, Department of Environment, Ministry of Agriculture, Rural Development and Environment of Cyprus, including additional material

on the methodology and assumptions used. The following documents<sup>1</sup> were also provided by Cyprus:

*Cyprus' National Inventory Improvement Plan*. Nicosia, 2016. Department of Environment, Ministry of Agriculture, Rural Development and Environment of Cyprus. 9 pp.

*Cyprus' QA/QC and Verification System Manual*. Nicosia, 2016. Department of Environment, Ministry of Agriculture, Rural Development and Environment of Cyprus. 26 pp.

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<sup>1</sup> Reproduced as received from the Party.

## Annex IV

### Acronyms and abbreviations

CH <sub>4</sub>	methane
CMP	Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> eq	carbon dioxide equivalent
CRF	common reporting format
DES	data exchange standard
ERT	expert review team
FAO	Food and Agriculture Organization of the United Nations
FMRL	forest management reference level
GHG	greenhouse gas
HFC	hydrofluorocarbon
IPCC	Intergovernmental Panel on Climate Change
IPPU	industrial processes and product use
KP-LULUCF	LULUCF emissions and removals from activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol
kt	kilotonne
LULUCF	land use, land-use change and forestry
MADRE	Ministry of Agriculture, Rural Development and Environment
NA	not applicable
NF <sub>3</sub>	nitrogen trifluoride
NIR	national inventory report
N <sub>2</sub> O	nitrous oxide
PFC	perfluorocarbon
QA/QC	quality assurance/quality control
QELRC	quantified emission limitation and reduction commitment
SF <sub>6</sub>	sulphur hexafluoride
UNFCCC	United Nations Framework Convention on Climate Change

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