



United Nations

FCCC/IRR/2016/MLT



Framework Convention on
Climate Change

Distr.: General
21 July 2017

English only

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 Malta

Note by the expert review team


Summary

According to decision 2/CMP.8, each Party with a quantified emission limitation and 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 I, 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 10 to 15 October 2016 in Sliema, Malta.

GE.17-12389(E)



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Contents

	<i>Paragraphs</i>	<i>Page</i>
I. Introduction	1–2	3
II. Summary of the reporting on mandatory elements in the report to facilitate the calculation of the assigned amount	3	3
III. Technical assessment of the elements reviewed.....	4	6
IV. Questions of implementation	5	9
Annexes		
I. Key relevant data for Malta.....		10
II. Additional information on the review of the national system and the national registry		15
III. Documents and information used during the review		17
IV. Acronyms and abbreviations		19

I. Introduction¹

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 Malta was organized by the UNFCCC secretariat, in accordance with the “Guidelines for review under Article 8 of the Kyoto Protocol”.² The review took place from 10 to 15 October 2016 in Sliema, Malta, and was coordinated by Mr. Roman Payo 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 Malta.

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

Table 1

Composition of the expert review team that conducted the review of Malta

<i>Area of expertise</i>	<i>Name</i>	<i>Party</i>
Generalist	Mr. Takeshi Enoki	Japan
Energy	Mr. Kaleem Anwar Mir	Pakistan
IPPU	Mr. Stanford Mwakasonda	United Republic of Tanzania
Agriculture	Mr. Bernard Hyde	Ireland
LULUCF	Mr. Sandro Federici	San Marino
Waste	Mr. Chart Chiemchaisri	Thailand
Lead reviewers	Mr. Enoki	
	Mr. Mwakasonda	

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 Malta in its report to facilitate the calculation of the assigned amount. Key data and elections by the Party are included in table 4.

Table 2

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

<i>Item</i>	<i>Comment</i>
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¹ At the time of publication of this report, Malta had not yet submitted the instrument of ratification of the Doha Amendment, and 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.

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

<i>Item</i>		<i>Comment</i>
<i>General Party information</i>		
Date of submission		Original submission: 29 July 2016
Are there any missing categories or issues related to completeness ^a in the reporting of GHG emissions by sources and removals by sinks for the base year or period?	Yes	For further information see FCCC/ARR/2016/MLT
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 ₆ ?	Yes	See annex I, table 4
Did the Party report the base year for NF ₃ ?	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	Yes	For further information, see ID#10 in table 3
(b) Calculation of base-year emissions	Yes	For further information, see ID#2 in table 3
(c) Calculation of the assigned amount	Yes	For further information, see ID#1 in table 3
(d) Calculation of the commitment period reserve	Yes	See annex I, table 4
(e) Application and calculation pursuant to decision 2/CMP.7, annex, paragraph 13	Yes	See annex I, table 4
<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?	Yes	See annex I, table 4. For further information, see ID#1 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 8?	No	See annex I, table 4. For further information, see ID#6 in table 3

<i>Item</i>		<i>Comment</i>
Has the Party indicated in the original submission the approach ^b used to calculate average annual emissions for the first three years of the first commitment period?	Yes	See annex I, table 4. For further information, see ID#6 in table 3
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	
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#3 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?	No	For further information, see ID#5 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, annex, paragraphs 6–8?	NA	The Party did not elect any activity under Article 3, paragraph 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	The Party did not elect any activity under Article 3, paragraph 4
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	For further information see FCCC/ARR/2016/MLT, table 4, ID# KL.6
Has the Party reported the quantity amounting to 3.5% of the base-year GHG emissions, excluding LULUCF, in the original submission?	No	See annex I, table 4
Did the Party indicate whether it intends to apply the provisions to exclude emissions from natural disturbances for the accounting for afforestation and reforestation	Yes	See annex I, table 4. For further information, see

<i>Item</i>		<i>Comment</i>
and/or forest management and provide the relevant information in accordance with decision 2/CMP.7, annex, paragraph 33?		ID#4 in table 3
<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?	Yes	For the ERT assessment of the reporting of specific mandatory elements, see annex III
Was a description of the national registry provided, in accordance with the requirements contained in the annex 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?	Yes	For further information, see ID#11 in table 3. For the ERT assessment of the reporting of specific mandatory elements, see annex III

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

^a Issues related to missing categories and completeness are only for those categories for which methods are available in the *2006 IPCC Guidelines for National Greenhouse Gas Inventories*.

^b 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 Malta has been undertaken together with the review of the inventory submission for the first year of the second commitment period.³ 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.

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

Table 3

Additional findings of the expert review team, if any, related to Malta'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	<p>The assigned amount submitted by the Party in its report to facilitate the calculation of the assigned amount was calculated in accordance with Article 3, paragraphs 7 bis, 8 and 8 bis, of the Kyoto Protocol, the annex to decision 13/CMP.1 and annex I to decision 3/CMP.11</p> <p>The ERT notes that the European Union, its member States and Iceland stated that they will fulfil their reduction targets under the second commitment period jointly.^a The joint assigned amount for the European Union, its member States and Iceland is calculated pursuant to the quantified emission limitation and 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 is determined in accordance with the terms of the joint fulfilment agreement. Specifically, the assigned amount for Malta is fixed, based on Annex II to European Commission decision 2013/162/EU and as adjusted by Commission implementing decision 2013/634/EU^a</p> <p>The ERT concludes that the assigned amount reported by Malta is in accordance with the joint fulfilment agreement by the European Union, its member States and Iceland</p>	Not a problem
2.	Calculation of the assigned amount	<p>Malta did not report base-year emissions in its report to facilitate the calculation of the assigned amount. In response to the list of potential problems and further questions raised by the ERT (see document FCCC/ARR/2016/MLT), the Party submitted revised estimates, which affected the base-year emissions. The revised estimates for the base-year emissions (1 974 638 t CO₂ eq) do not affect the assigned amount for Malta, referred to in table 4 below, because the assigned amount is determined on the basis of the allocations in the European Union decisions referenced above, and is not calculated using the base-year emission estimates for Malta. The ERT invites Malta to communicate the revised base-year emissions to the European Union with a view to being considered in the calculation of the joint assigned amount of the European Union, its member States and Iceland</p>	Not a problem
3.	Calculation of the commitment period reserve	<p>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>	Not a problem
4.	Accounting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	<p>The report to facilitate the calculation of the assigned amount for the second commitment period (initial report) submitted on 29 July 2016 states in chapter 13 that Malta will exclude emissions from natural disturbances. However, the ERT noted that it does not indicate the types of natural disturbances whose emissions are to be excluded or for which KP-LULUCF activities these emissions will be excluded</p> <p>During the review, Malta indicated that it would not exclude emissions from natural disturbances for any KP-LULUCF activity</p>	Problem type

ID#	Finding classification	Description of the finding	Classification of problem
5.	Accounting of activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	Malta has not reported a comparison between the values used in the Party's forest definition (tree crown cover of 30%; land area of 1 ha; tree height of 5 m) and the values that have been historically reported to FAO or other international bodies, as required by decision 2/CMP.8, annex I, paragraph 1(f). However, the ERT noted that the information for Malta reported in the <i>Global Forest Resources Assessment 2015^c</i> is based on the FAO forest definition (tree crown cover of 10%; land area of 0.5 ha; tree height of 5 m) and that this definition is different from the definition chosen by Malta for reporting under the Kyoto Protocol and, therefore, no significant comparison is possible (the ERT noted that Malta's definition of forest under the Kyoto Protocol is in accordance with the Kyoto Protocol, even if the definition is different from the FAO definition). The ERT also noted that Malta has not historically reported estimates of its forest land to FAO	Not a problem
6.	Reporting pursuant to Article 3.7 ter of the Doha Amendment	In line with the terms of the joint fulfilment agreement 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 Kyoto Protocol 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 8. 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 is including the gases and sources listed in Annex A to the Kyoto Protocol	Not a problem
7.	National system	During the in-country visit, Malta explained the institutional arrangements, as part of the national system, for preparation of the inventory. The Ministry for Sustainable Development, Environment and Climate Change is the designated single national entity. Other agencies, mainly MRA, are also involved in the preparation of the inventory and have defined and allocated specific responsibilities for the inventory development process. MRA is the main entity responsible for the planning, preparation and management of the national GHG inventory. The ERT considers that Malta's national system is being prepared in accordance with the guidelines for national systems under Article 5, paragraph 1, of the Kyoto Protocol (decision 19/CMP.1, annex, in conjunction with decisions 3/CMP.11 and 4/CMP.11)	Not a problem
8.	National registry	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 has been undertaken in the context of the initialization of the national registry of Malta ^d	Not a problem
9.	National registry	The ERT took note of the results of the technical assessment of the national registry, including the results of standardized testing, as reported in the standard independent assessment report that was forwarded to the ERT by the administrator of the international transaction log, pursuant to decision 16/CP.10 ^d	Not a problem

<i>ID#</i>	<i>Finding classification</i>	<i>Description of the finding</i>	<i>Classification of problem</i>
10.	National registry	During the review, the Party noted that it did not have any previous period surplus reserve account (PPSR) at the beginning of 2015 but it will establish a PPSR in its national registry as soon as technically possible	Not a problem
11.	National registry	The report to facilitate the calculation of the assigned amount for the second commitment period (initial report) submitted on 29 July 2016 does not include the mandatory information on the national registry specified in decisions 5/CMP.1, 13/CMP.1 and 15/CMP.1 (see annex III). During the review, the Party indicated that Malta is part of the consolidated system of European registries and uses the European Union registry software, and that the registry documentation, including the mandatory information, is included in the information provided by the European Commission on the consolidated registry	Not a problem
12.	Adjustments	The ERT has not identified the need to apply any adjustments to the estimate for the assigned amount for the second commitment period, as reported by Malta in its report to facilitate the calculation of the assigned amount	Not a problem

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”, ERT = expert review team, FAO = Food and Agriculture Organization of the United Nations, GHG = greenhouse gas, LULUCF = land use, land-use change and forestry, MRA = Malta Resources Authority.

^a The report to facilitate the calculation of the assigned amount for the European Union is available at <http://unfccc.int/national_reports/initial_reports_under_the_kyoto_protocol/second_commitment_period_2013-2020/items/9499.php>.

^b 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.

^c Available at <www.fao.org/3/a-i4808e.pdf>.

^d 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 the 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

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

Annex I

Key relevant data for Malta

1. Table 4 provides key data and parameters for, and elections by, Malta, 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 Malta

<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
Malta's QELRC in the second commitment period	Malta 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, 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 ₆	1990
Base year for NF ₃	1995
Base-year emissions, as reported by the Party	Not reported in the original submission
Base-year emissions, final, as calculated by the ERT and agreed by the Party	1 974 638 t CO ₂ eq
<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	9 299 769 t CO ₂ eq
Approach used to calculate the average annual emissions for the first three years of the first commitment period	This difference 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

<i>Key information or parameter provided</i>	<i>Comment</i>
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 8, as reported by the Party and agreed by the ERT	This difference 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	8 369 793 t CO ₂ eq
<i>Information related to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol</i>	
LULUCF parameters	Minimum tree crown cover: 30% Minimum land area: 1 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	-0.049 Mt CO ₂ eq/year
Technical corrections to the FMRL as reported in the original submission	Not reported in the original submission
Technical corrections to the FMRL, final value, as reported by the Party	Not reported
3.5% of total base-year GHG emissions, excluding LULUCF, as reported by the Party	Not reported in the original submission
3.5% of total base-year GHG emissions, excluding LULUCF, final value, as calculated by the ERT and agreed by the Party	69.112 kt CO ₂ eq
3.5% of total base-year GHG emissions, excluding LULUCF, multiplied by 8, as reported by the Party in the original submission	Not reported in the original submission
3.5% of total base-year GHG emissions, excluding LULUCF, multiplied by 8, final value, as calculated by the ERT and agreed by the Party	552.898 kt CO ₂ eq

<i>Key information or parameter provided</i>	<i>Comment</i>
Will the Party exclude emissions from natural disturbances in accounting for:	
(a) Afforestation and reforestation	No
(b) Forest management	No

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 and reduction commitment.

2. Tables 5–7 provide an overview of total greenhouse gas emissions and removals, as submitted by Malta. 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 Malta, base year^a–2014^b
 (kt CO₂ eq)

<i>Year</i>	<i>Total GHG emissions excluding indirect CO₂ emissions</i>		<i>Total GHG emissions including indirect CO₂ emissions^c</i>		<i>Land-use change (Article 3.7 bis as contained in the Doha Amendment)^d</i>
	<i>Total including LULUCF</i>	<i>Total excluding LULUCF</i>	<i>Total including LULUCF</i>	<i>Total excluding LULUCF</i>	
Base year	1 972.06	1 974.64	1 972.06	1 974.64	NA
1990	1 972.06	1 974.64	1 972.06	1 974.64	
1995	2 468.21	2 470.86	2 468.21	2 470.86	
2000	2 593.15	2 595.80	2 593.15	2 595.80	
2010	3 077.14	3 079.97	3 077.14	3 079.97	
2011	3 194.61	3 197.48	3 194.61	3 197.48	
2012	3 308.09	3 310.99	3 308.09	3 310.99	
2013	2 936.41	2 939.27	2 936.41	2 939.27	
2014	2 965.96	2 968.79	2 965.96	2 968.79	

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

^a Base year refers to the base year under the Kyoto Protocol, which is 1990 for all gases except NF₃, for which the base year is 1995.

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

^c The Party has not reported indirect CO₂ emissions in common reporting format table 6.

^d The value reported in this column refers to 1990.

Table 6

Greenhouse gas emissions by gas for Malta, excluding land use, land-use change and forestry, 1990–2014^a(kt CO₂ eq)

<i>Year</i>	<i>CO₂^b</i>	<i>CH₄</i>	<i>N₂O</i>	<i>HFCs</i>	<i>PFCs</i>	<i>Unspecified mix of HFCs and PFCs</i>	<i>SF₆</i>	<i>NF₃</i>
1990	1 863.16	63.69	47.78	NO, NA, NE, IE	NA, NO	NA, NO	0.01	NA, NO
1995	2 315.98	96.52	56.92	0.002	NA, NO	NA, NO	1.44	NA, NO
2000	2 416.86	112.94	60.81	3.72	NA, NO	NA, NO	1.47	NA, NO
2010	2 692.91	183.53	57.34	144.50	0.000001	NA, NO	1.69	NA, NO
2011	2 789.04	176.47	59.64	167.74	0.000001	NA, NO	4.59	NA, NO
2012	2 871.41	177.43	60.77	200.93	0.000001	NA, NO	0.45	NA, NO
2013	2 479.36	178.70	60.21	218.33	0.000001	NA, NO	2.68	NA, NO
2014	2 487.26	186.85	60.31	233.78	0.000001	NA, NO	0.58	NA, NO
Per cent change 1990–2014	33.5	193.4	26.2	NA	NA	NA	5402.8	NA

Abbreviations: IE = included elsewhere, NA = not applicable, NE = not estimated, NO = not occurring.

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

^b Malta did not report indirect carbon dioxide emissions in common reporting format table 6.

Table 7
Greenhouse gas emissions by sector for Malta, 1990–2014^{a, b}
 (kt CO₂ eq)

<i>Year</i>	<i>Energy</i>	<i>IPPU</i>	<i>Agriculture</i>	<i>LULUCF</i>	<i>Waste</i>	<i>Other</i>
1990	1 870.85	7.66	52.24	-2.57	43.89	NA
1995	2 326.04	9.19	74.32	-2.65	61.30	NA
2000	2 429.46	11.93	78.03	-2.65	76.37	NA
2010	2 704.46	150.88	72.14	-2.83	152.49	NA
2011	2 804.07	177.45	70.29	-2.87	145.67	NA
2012	2 887.59	206.37	70.31	-2.90	146.72	NA
2013	2 494.42	225.57	71.08	-2.87	148.21	NA
2014	2 502.53	238.74	70.22	-2.83	157.30	NA
Per cent change						
1990–2014	33.8	3016.7	34.4	10.0	258.4	NA

Abbreviations: IPPU = industrial processes and product use, LULUCF = land use, land-use change and forestry, NA = not applicable.

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

^b Malta did not report indirect carbon dioxide emissions in common reporting format table 6.

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 Malta

<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	Yes
<i>Inventory preparation</i>	
Identified key categories	Yes
Estimates prepared in line with the 2006 IPCC Guidelines	Yes
Sufficient activity data and emission factors collected to support methods selected	Yes
Conducted quantitative uncertainty analysis	Yes
Recalculations prepared in accordance with the 2006 IPCC Guidelines	Yes
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	Yes
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, IPCC = Intergovernmental Panel on Climate Change, 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 the report to facilitate the calculation of the assigned amount.

Table 9

Summary of reporting on mandatory elements of the national registry of Malta

<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	The European Union, its member States and Iceland
Description of the database structure	Yes
Description of the capacity of the national registry	Yes
Description of how the national registry conforms to the technical DES between registry systems	Yes
Description of the procedures employed in the national registry to minimize discrepancies in the transactions of Kyoto Protocol units	Yes
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	Yes
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	Yes
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	Yes
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	Yes

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#page=14>.

“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#page=51>.

“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. Josianne Muscat (Office of the Permanent Secretary, Directorate for the Environment and Climate Change, Ministry for Sustainable Development, the Environment and Climate Change), including additional material on the methodology and assumptions used.

Annex IV

Acronyms and abbreviations

CH ₄	methane
CMP	Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol
CO ₂	carbon dioxide
CO ₂ eq	carbon dioxide equivalent
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
IE	included elsewhere
IPCC	Intergovernmental Panel on Climate Change
IPPU	industrial processes and product use
kt	kilotonne
LULUCF	land use, land-use change and forestry
NA	not applicable
NE	not estimated
NF ₃	nitrogen trifluoride
NO	not occurring
N ₂ O	nitrous oxide
PFC	perfluorocarbon
QA/QC	quality assurance/quality control
QELRC	quantified emission limitation and reduction commitment
SF ₆	sulphur hexafluoride
UNFCCC	United Nations Framework Convention on Climate Change
