

**ENFORCEMENT BRANCH
OF THE COMPLIANCE COMMITTEE**

CC-2011-2-10/Ukraine/EB
8 December 2011

ПОСОЛЬСТВО УКРАЇНИ У
ФЕДЕРАТИВНІЙ РЕСПУБЛІЦІ
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06. December 2011
№ 61212/24-645-2345

Dear Mr. Bondi Ogolla,

On October 12, 2011, the Enforcement Branch of the Compliance Committee of the Kyoto Protocol adopted the final decision (CC-2011-2-9/Ukraine/EB) concerning Ukraine. The branch confirms, in accordance with paragraph 8 of section IX, paragraph 1 (f) of section X, and rule 22 of the Rules of procedure, the preliminary finding.

In accordance with paragraph 24 (b) of the preliminary finding, Ukraine shall develop a plan referred to in paragraph 1 of section XV, in accordance with the substantive requirements of paragraph 2 of section XV and paragraph 1 of rule 25 bis of the Rules of procedure, submit it within three months to the enforcement branch in accordance with paragraph 2 of section XV.

Please find enclosed herewith the Plan submitted in accordance with paragraph 24 (b) of the preliminary finding (CC-2011-2-6/Ukraine/EB), confirmed by the final decision of the Enforcement Branch concerning Ukraine (CC-2011-2-9/Ukraine/EB) and in accordance with section XV, paragraph 2 of the Procedures and mechanisms relating to compliance under the Kyoto Protocol and rule 25bis of the Rules of procedure of the Compliance Committee of the Kyoto Protocol.

Please accept, dear Mr. Bondi Ogolla, the assurances of our highest consideration.

Sincerely yours,

Extraordinary and Plenipotentiary
Ambassador of Ukraine

N.Zarudna

PLAN

submitted in accordance with paragraph 24 (b) of the preliminary finding (CC-2011-2-6/Ukraine/EB), confirmed by the final decision of the Enforcement Branch concerning Ukraine (CC-2011-2-9/Ukraine/EB) and in accordance with section XV, paragraph 2 of the Procedures and mechanisms relating to compliance under the Kyoto Protocol and rule 25 bis of the Rules of procedure of the Compliance Committee of the Kyoto Protocol

December 1, 2011

Kyiv, Ukraine

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PREFACE

1. Ukraine is pleased to present this Plan to the enforcement branch of the Compliance Committee under Section XV, paragraph 2 of the “Procedures and mechanisms relating to compliance under the Kyoto Protocol” (annex to decision 27/CMP.1) (the “**Procedures and mechanisms**”) in response to the preliminary finding of the Enforcement Branch of the Compliance Committee (CC-2011-2-6/Ukraine/EB) confirmed by the final decision of the Enforcement Branch of the Compliance Committee concerning Ukraine (CC-2011-2-9/Ukraine/EB).
2. The question of implementation relates to Ukraine’s compliance with the “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” adopted by decision 19/CMP.1 and its conformity with the applicable provisions of the Kyoto Protocol and related decisions adopted by the Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol.
3. The question of implementation is related to the eligibility requirement referred to in paragraph 31 (c), annex to decision 3/CMP.1, paragraph 21 (c), annex to decision 9/CMP.1 and paragraph 2 (c), annex to decision 11/CMP.1 as a result of which, the expedited procedures contained in section X of the Procedures and mechanisms applied.

SECTION I. BACKGROUND

1. On 3 June 2011, the secretariat received a question of implementation from an expert review team (the “**ERT**”), indicated in the report of the review of the annual submission of Ukraine submitted in 2010 (the “**2010 ARR**”) and contained in document FCCC/ARR/2010/UKR. In accordance with paragraph 1 of section VI¹ and paragraph 2 of rule 10 of the “Rules of procedure of the Compliance Committee” (the “**Rules of procedure**”) ², the question of implementation was deemed received by the Compliance Committee on 6 June 2011.
2. The 2010 ARR results from a centralized review of Ukraine’s annual submission submitted in 2010 (the “**2010 annual submission**”) which was conducted from 30 August to 4 September 2010 in accordance with the “Guidelines for review under Article 8 of the Kyoto Protocol” (annex to decision 22/CMP.1).
3. The bureau of the Compliance Committee allocated the question of implementation to the enforcement branch on 13 June 2011 under paragraph 1 of section VII, in accordance with paragraphs 4 (b) and (c) of section V and paragraph 1 of rule 19 of the Rules of procedure.
4. On 14 June 2011, the secretariat notified the members and alternate members of the enforcement branch of the question of implementation, in accordance with paragraph 2 of rule 19 of the Rules of procedure, and of its allocation to the enforcement branch.
5. On 29 June 2011, the enforcement branch decided, in accordance with paragraph 2 of section VII and paragraph 1 (a) of section X, to proceed with the question of implementation (CC-2011-2-2/Ukraine/EB).
6. As indicated above, the question of implementation relates to compliance with the “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” adopted by decision 19/CMP.1 (the

¹ All section references in this document refer to the “Procedures and mechanisms relating to compliance under the Kyoto Protocol” contained in the annex to decision 27/CMP.1.

² All references to the rules of procedure in this document refer to the rules contained in the annex to decision 4/CMP.2 as amended by decision 4/CMP.4.

“Guidelines for national systems”). In particular, the ERT found that the national system of Ukraine failed to perform some of the general and specific functions required by the Guidelines for national systems and that the national system did not ensure that Ukraine’s 2010 annual submission was sufficiently transparent, consistent, comparable, complete and accurate, as required by the Guidelines for national systems, the “Guidelines for the preparation of the information required under Article 7 of the Kyoto Protocol” (annex to decision 15/CMP.1), the UNFCCC reporting guidelines,³ the “Intergovernmental Panel on Climate Change (IPCC) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories,” and the “IPCC Good Practice Guidance for Land Use, Land-Use Change and Forestry (LULUCF).” The ERT also found that the national system is not able to ensure that areas of land subject to LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol are identifiable in accordance with paragraph 20 of the “Definitions, modalities, rules and guidelines relating to land use, land-use change and forestry activities under the Kyoto Protocol” (annex to decision 16/CMP.1).

7. The question of implementation is related to the eligibility requirement referred to in paragraph 31 (c), annex to decision 3/CMP.1, paragraph 21 (c), annex to decision 9/CMP.1, and paragraph 2 (c), annex to decision 11/CMP.1. Consequently, the expedited procedures as contained in section X apply.

8. On 6 July 2011, the enforcement branch agreed to invite four experts drawn from the UNFCCC roster of experts to provide advice to the branch (CC-2011-2-3/Ukraine/EB). Two of these experts were part of the ERT that reviewed Ukraine’s 2010 annual submission.

9. On 19 July 2011, the enforcement branch received a request for a hearing from Ukraine (CC-2011-2-4/Ukraine/EB), which also indicated that Ukraine intended to make a written submission under paragraph 1 (b) of section X.

10. On 3 August 2011, the enforcement branch received a written submission (CC-2011-2-5/Ukraine/EB) in accordance with paragraph 1 of section IX, paragraph 1 (b) of section X, and rule 17 of the Rules of procedure. Ukraine included in this submission a detailed and updated account of its efforts to comply.

³ “Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories” contained in FCCC/SBSTA/2006/9.

11. On 24 August 2011, the enforcement branch held a hearing in accordance with paragraph 2 of section IX and paragraph 1 (c) of section X. The hearing formed part of the meeting of the enforcement branch that was held from 22 to 27 August 2011, *inter alia*, to consider the adoption of a preliminary finding or a decision not to proceed further. During the hearing, Ukraine made a presentation. The enforcement branch received advice from the four invited experts during the meeting.

12. In its deliberations, the enforcement branch considered the 2010 ARR, the written submission of Ukraine contained in document CC-2011-2-5/Ukraine/EB, information presented by Ukraine during the hearing, both orally and in writing, and advice from the experts invited by the branch. No competent intergovernmental or non-governmental organization provided any information under paragraph 4 of section VIII.

13. On 25 August 2011, the enforcement branch adopted a preliminary finding of non-compliance with respect to Ukraine.

14. On 30 August 2011, Ukraine received notice that the enforcement branch of the Compliance Committee had adopted a preliminary finding relating to Ukraine in document CC-2011-2-6/Ukraine/EB. In this notice, the secretariat invited Ukraine to make a further written submission within four weeks of its date of receipt.

15. On 2 September 2011, Ukraine submitted a request to defer the consideration of the further written submission and the elaboration and adoption of a final decision with respect to Ukraine (CC-2011-2-7/Ukraine/EB), which request was not granted.

16. On 28 September 2011, the enforcement branch received the further written submission from Ukraine (CC-2011-2-8/Ukraine/EB) in accordance with paragraph 7 of section IX, 2 paragraph 1 (e) of section X and rule 17 of the Rules of procedure. The enforcement branch considered the further written submission in elaborating a final decision at its fifteenth meeting held in Bonn from 11 to 12 October 2011.

17. On 12 October 2011, the enforcement branch adopted the final decision of non-compliance with respect to Ukraine. The branch confirms, in accordance with

paragraph 8 of section IX, paragraph 1 (f) of section X, and rule 22 of the Rules of procedure, the preliminary finding.

18. In accordance with paragraph 24(b) of the preliminary finding Ukraine shall develop a plan referred to in paragraph 1 of section XV, in accordance with the substantive requirements of paragraph 2 of section XV and paragraph 1 of rule 25 bis of the Rules of procedure, submit it within three months to the enforcement branch in accordance with paragraph 2 of section XV.

19. Ukraine is pleased to present this Plan to the enforcement branch according to requirements in paragraph 18 above.

SECTION II. ANALYSIS OF THE CAUSES OF NON-COMPLIANCE

In the period 2008-2009 a number of planned activities were not executed which led to the current state of non-compliance. Causes behind non-compliance are discussed below.

1. Cause: Lack of commitment from the previous government to support the normal operation of the National GHG Inventory System in 2008-2009 coupled with lack of clarity as to the roles of the Ministry of Environment of Ukraine and the National Environmental Investments Agency of Ukraine as part of GHG inventory management.

Background: In April 2007, a National Environmental Investments Agency was set up to provide coordination of activities that follow on from Ukraine's commitments under the UNFCCC and the Kyoto Protocol thereto. One of such activities is to support a national GHG inventory system. In late 2007 – early 2008, however, following early parliamentary elections, a new government was formed in Ukraine, which, in its turn, led to major staffing changes across the executive, including the National Environmental Investments Agency resulting in a loss of institutional memory in GHG inventory management.

Actions taken: In March 2010, following 2010 presidential elections, a new government was formed that now pays great attention to the climate change agenda and is committed to ensuring the normal operation of the GHG Inventory System.

In October 2010, a draft law was passed on first reading by the Parliament of Ukraine aimed at putting in place a solid regulatory framework in the area of climate change. The draft law, inter alia, provides more clarity as to the functioning of the national inventory system.

In December 2010, Ukraine launched an administrative reform seeking, inter alia, to clearly delineate the roles of the Ministry of Environment and the State Environmental Investments Agency of Ukraine. Under Presidential Decree № 455/2011, the State Environmental Investments Agency is responsible for maintaining the national GHG inventory as the basis of the National GHG Inventory Report.

The GHG Inventory agenda has been discussed on multiple occasions at meetings of the Cabinet of Ministers of Ukraine with participation from central and local executive bodies that contribute to the National GHG Inventory Report.

2. Cause: Lack of coordination among the various government actors that take part in GHG inventory management.

Background: The policy that governs the National GHG Inventory System is set forth in Resolution No. 554 of the Cabinet of Ministers of Ukraine dated 21 April, 2006 *On the Approval of the Procedure of Functioning of the National System of Assessment of Anthropogenic Emissions and Removals of Green House Gases other than those Governed by the Montreal Protocol on Ozone Depleting Substances* (as amended on 17 April, 2008 and 29 July, 2011). This policy also provides that the State Environmental Investments Agency acts as the sole government agency responsible for GHG inventory. As described above, however, due to changes within the executive, including staff reshuffles, there was lack of coordination and oversight over the GHG Inventory System during 2008-2009.

Actions taken: Under Presidential Decree № 455/2011 the State Environmental Investments Agency maintains the National GHG Inventory System as the basis for the National Inventory Report. This is envisaged by Resolution No. 554 of the Cabinet of Ministers of Ukraine dated 21 April, 2006 *On the Approval of the Procedure of Functioning of the National System of Assessment of Anthropogenic Emissions and Removal of Green House Gases other than those Governed by the Montreal Protocol on Ozone Depleting Substances* (as amended on 17 April, 2008 and 29 July, 2011).

The Cabinet of Ministers of Ukraine has taken additional organisational measures to establish oversight mechanisms for the GHG Inventory System and its information resources (Resolution №17924/1/1-11 of the Cabinet of Ministers of Ukraine of 07 April, 2011).

As the State Statistics Committee of Ukraine is the sole source of input data for GHG inventory, in 2011, the State Environmental Investments Agency and the State Statistics Committee of Ukraine entered into a long-term data interchange agreement. This agreement provides a detailed list of data items and their provision timelines, and specifies data interchange formats. The agreement supports closer cooperation between specialists from both institutions which facilitates data interchange.

3. Cause: Lack of hands-on experience among SEIA staff in GHG Inventory planning, preparation and management.

Background: Following the change of government in late 2007 – early 2008, as described above, major staffing changes took place at the National Environmental Investments Agency of Ukraine. Those specialists who were responsible for coordination of GHG Inventory preparation at SEIA as per their job descriptions, lacked hand-on experience to manage GHG Inventory preparation and supervise the operation of the National Inventory System.

Actions taken: In 2010, following the change of government, as described above, NEIA's staffing capacity was strengthened. Specialists were hired to join NEIA with years of experience in national GHG inventory management to provide adequate coordination of activities in this domain.

4. Cause: Lack of financial resources to afford much-needed research.

Background: In Ukraine's inventory reports submitted during 2007-2009, a large number of future improvements were outlined. Their implementation required financial resources that were not sufficiently allocated during 2008-2009. The financial constraints were caused by a decline in government revenues which, in its turn, had been triggered by the global financial and economic crisis that broke out in 2008 and continued into 2009. Those temporary financing interruptions thwarted much planned research and, consequently, inhibited improvements in GHG Inventory Management.

Actions taken: In 2010-2011, all previously planned research exercises have been conducted enabling a large number of improvements that were reflected in the 2011 Inventory Report. Those improvements are listed in Chapter III and were commended by the ERT during the in-country review of the 2011 submission.

In 2011-2012, funds were allocated to finance certain activities (see Annex A) seeking to improve the accuracy, transparency and comparability of Ukraine's Inventory Report as per the Guidelines for national systems under Article 5, paragraph 1 of the Kyoto Protocol adopted by Decision 19/CMP.1. A detailed description of planned improvements is presented in Table 2 of Chapter III below.

CONCLUSION

Ukraine has conducted a thorough analysis of the reasons that led to the decision to find Ukraine non-compliant under the Kyoto Protocol.

The Cabinet of Ministers of Ukraine, the Ministry of Environment and Natural Resources of Ukraine and the State Environmental Investments Agency as the executive agency designated to support the operation of the GHG Inventory System have taken measures aimed at eliminating the causes behind the Question of Implementation with respect to Ukraine. Specific actions taken by Ukraine are presented in Table 1 of Chapter III below.

To date, major improvements have been implemented to upgrade the National GHG Inventory System as per the Guidelines for National Systems under Article 5, paragraph 1 of the Kyoto Protocol adopted by Decision 19/CMP.1. These improvements were reflected in Ukraine's 2011 submission.

Between 10 and 15 October, 2011 an in-country review was conducted of Ukraine's 2011 submission under Article 8 of the Kyoto Protocol. As a result, the Expert Review Team (ERT) found no unresolved problems pertaining to the language of a mandatory nature, as defined by paragraph 8 of the Guidelines for review under Article 8 of the Kyoto Protocol adopted by Decision 22/CMP.1. This proves that the actions taken by Ukraine have been effective.

The progress achieved notwithstanding, Ukraine, conscious of the need to keep improving the National GHG Inventory System, continues upgrading the National System to achieve unqualified compliance with the Guidelines for National Systems under Article 5, paragraph 1 of the Kyoto Protocol adopted by Decision 19/CMP.1. Planned improvements for 2011-2012 are presented in Table 2 of Chapter III below.

SECTION III. MEASURES THAT UKRAINE INTENDS TO IMPLEMENT OR HAS IMPLEMENTED

The activities in the improvement plan are planned for the period 2011-2012 in order to fulfill the recommendations of Expert Review Team (the **ERT**) as set out in the annual review report FCCC/ARR/2010/UKR.

The table 1 below presents the status of implementation of the activity to fulfill the recommendations of Expert Review Team as set out in the annual review report FCCC/ARR/2010/UKR as of November 2011.

The results of activities listed in Table 1 were incorporated in Ukraine's 2011 submission and reviewed during an in-country review that took place on October 10-15, 2011. As a result, the Expert Review Team (ERT) found no unresolved problems pertaining to the language of a mandatory nature, as defined by paragraph 8 of the Guidelines for review under Article 8 of the Kyoto Protocol adopted by Decision 22/CMP.1. At the end of the in-country review, the ERT did not raise a «list all problems» (A Saturday Paper) as per paragraph 73 of the Guidelines for review under Article 8 of the Kyoto Protocol adopted by Decision 22/CMP.1. This testifies to a fairly high level of implementation by Ukraine of recommendations as raised by the ERT in the Annual Review Report FCCC/ARR/2010/UKR.

Table 2 below presents an action plan seeking to fulfill the recommendations of ERT as set out in the annual review report FCCC/ARR/2010/UKR, scheduled for implementation during 2011-2012.

Table 1 - Status of implementation of the activity to fulfill the recommendations of Expert Review Team as set out in the annual review report FCCC/ARR/2010/UKR as of November 2011 for ensuring the effective and timely functioning of Ukrainian National Inventory System in accordance with the requirements of the Guidelines for national systems under Article 5, paragraph 1 of the Kyoto Protocol adopted by Decision 19/CMP.1

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
1	12	Energy	1B2A	The ERT noted that categories reported by Ukraine as "NE" include: fugitive CO ₂ and CH ₄ emissions from oil exploration (and, when relevant, N ₂ O emissions)	AD collected and emissions estimated in 2011 submission	Category 1.B.2.A.1. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission) p.87-95 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
2	12	Energy	1B2A	The ERT noted that categories reported by Ukraine as "NE" include: CO ₂ emissions from oil production	AD collected and emissions estimated in 2011 submission	Category 1.B.2.A.2. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission), p.87-95 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
3	12	Energy	1B2A	The ERT noted that categories reported by Ukraine as "NE" include: CO ₂ and CH ₄ emissions from oil venting	AD collected and emissions estimated in 2011 submission	Category 1.B.2.C.1.1. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission), p.87-95 (Unofficial Translation of Official	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
						Submission)		
4	12	Energy	1B2A	The ERT noted that categories reported by Ukraine as "NE" include: CO2 and N2O emissions from oil flaring (reported as "included elsewhere" ("IE"))	AD collected and emissions estimated in 2011 submission	Category 1.B.2.C.2.1. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission), p.87-95 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
5	12	Energy	1B2B	The ERT noted that categories reported by Ukraine as "NE" include: CO2 and CH4 emissions from natural gas exploration	AD collected and emissions estimated in 2011 submission .	Category 1.B.2.B.1. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission) p.87-95 (Unofficial Translation of Official Submission).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
6	12	Energy	1B2B	The ERT noted that categories reported by Ukraine as "NE" include: CO2 and CH4 emissions from venting of natural gas	AD collected and emissions estimated in 2011 submission	Category 1.B.2.C.1.2. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission) p.87-95 (Unofficial Translation of Official Submission).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
7	12	Industrial Processes	2F	The ERT noted that categories reported by Ukraine as "NE" include: HFC, PFC and SF6 emissions from foam blowing, fire extinguishers, aerosols/metered dose inhalers and solvents	National activity data collected, emissions calculated on that basis	Chapter 4.21.2, p. 148 (Official Submission) p.137 (Unofficial Translation of Official	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
						Submission) Chapter 4.21.3, p. 149 (Official Submission) p.138 (Unofficial Translation of Official Submission). Chapter 4.21.4, p. 150 (Official Submission) p.139 (Unofficial Translation of Official Submission)		
8	12	LULUCF	5A1	The ERT noted that categories reported by Ukraine as "NE" include: CO2 emissions from dead organic matter and mineral soils in forest land remaining forest land	For dead organic matter EF calculated. For mineral soil additional research conducted. Results showed this pool is not a source. In CRF 2011 "NE" changed to "NO"	p.288-292 (Official Submission) p.266-270 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
9	12	LULUCF	5	The ERT noted that categories reported by Ukraine as "NE" include: CO2, CH4 and N2O emissions from biomass	GHG emissions from wildfire for land converted to Forest	For Forest land: Tables "Table5(V)" & "5(KP-II)5" in CRF & KP-CRF	Yes	The 2011 Submission of Ukraine

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				burning on land converted to forest land, on land converted to cropland, on forest land converted to cropland, on grassland and on wetlands	land for 2008&2009 calculated. For the remaining years of the time series calculation not performed due to lack of data. For all types of cropland and grassland lands - burning prohibited by national law. Data not available.	accordingly. For Cropland a Grassland see p.230 (Official Submission) p.211-212 (Unofficial Translation of Official Submission)		(submitted 08/06/2011)
10	12	Energy	1B2B	CO2 emissions from natural gas transmission are reported as "not occurring" ("NO"). The ERT considers that some of these emissions are likely to occur in the country.	CO2 EF developed and emissions estimated in 2011 submission.	Category 1.B.2.B.3. in CRF; NIR - Chapter 3.3.2, p.92 - 100 (Official Submission) p.87-95 (Unofficial Translation of Official Submission).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
11	12	Industrial Processes	2F1	HFC, PFC, and SF6 emissions from refrigeration and air conditioning equipment (except for HFC-134a) are reported as "not occurring" ("NO"). The ERT considers that some of these emissions are likely to occur in the country.	National activity data collected, emissions calculated on that basis	Chapter 4.21.1.2, p. 144 (Official Submission), p.133 (Unofficial Translation of Official Submission). Chapter 4.21.1.3, p. 146	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
						(Official Submission), p.135 (Unofficial Translation of Official Submission).		
12	13	Industrial Processes	2F	Ukraine reported HFC, PFC and SF6 emissions from foam blowing, fire extinguishers, aerosols/metered dose inhalers and solvents under the category consumption of halocarbons and SF6 as "NO".	National activity data collected, emissions calculated on that basis	Chapter 4.21.2, p. 148 (Official Submission), p.137 (Unofficial Translation of Official Submission). Chapter 4.21.3, p. 149 (Official Submission), p.138 (Unofficial Translation of Official Submission) Chapter 4.21.4, p. 150 (Official Submission), p.139 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
13	14	LULUCF	-	Complete its reporting under Article 3, paragraphs 3 and 4, of the Kyoto Protocol	Inventory for 3.3-3.4 submitted and description expanded to include additional	p. 270-275, 293-299 (Official Submission), p. 250-259, 270-275 (Unofficial Translation of	Yes	The 2011 Submission of Ukraine (submitted

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					information	Official Submission)		08/06/2011)
14	16	NIS (Cross-cutting issues)	-	national system of Ukraine requires urgent improvements to address the issues mentioned above in order to comply with the requirements set out in the annex to decision 19/CMP.1 including: ensuring the transparency and completeness of the inventory; timeliness of submission; supporting compliance with Kyoto Protocol commitments relating to the estimation of anthropogenic GHG emissions by sources and removals by sinks under Article 3, paragraphs 3 and 4; and responding to any issues raised by the inventory review process under Article 8 of the Kyoto Protocol (decision 22/CMP.1).	In total, more than 100 recommendations and comments of previous ERT taken into account. In addition, Ukraine independently improved the estimation of GHG emissions in some of the reported categories, and provided additional information to facilitate the review of its inventory submission. This fact demonstrates that NIS of Ukraine complies with the requirements set out in the annex to decision 19/CMP.1 including: ensuring the transparency and completeness of the	See Chapters by sectors and new Annexes, the volume of NIR increased in 2011 submission in comparison to 2010 submission from 349 pages to 557 pages.	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					inventory; timeliness of submission; supporting compliance with the Kyoto Protocol commitments relating to the estimation of anthropogenic GHG emissions by sources and removals by sinks under Article 3, paragraphs 3 and 4; and responding to any issues raised by the inventory review process under Article 8 of the Kyoto Protocol (decision 22/CMP.1).			
15	19	NIS		the list and role of private companies in the national system is not clarified in the NIR	NIS structure and description given in NIR, list and role of private companies in national system clarified in NIR	Chapter 1.2, p. 34-35, Figure 1.1 (Official Submission), Chapter 1.2, p.35().	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
16	26	Energy	1AA	for the years 1991-1997 the inventory lacks complete data on fuel	Data collected and IPCC splicing	Chapter A2.10 of Annex 2, p.389-391 (Official	Yes	The 2011 Submission of

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				consumption by category, which the Party explained was caused by changes that occurred in the Ukrainian statistical system.	techniques applied.	Submission), p. 350-352 (UFT)).		Ukraine (submitted 08/06/2011)
17	27	QA/QC	-	information in the NIR does not include an annual schedule for the implementation of QA/QC procedures	An annual schedule for the implementation of QA/QC procedures is included in NIR	Annex 6.1.3, p.525(Official Submission) and not included in Unofficial Translation of Official Submission	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
18	28	QA/QC	-	include all related information about the recommendations made by independent reviewers and how the recommendations were addressed in the inventory compilation	All related information about the recommendations made by independent reviewers and how the recommendations were addressed in the inventory compilation is included in NIR	Chapter 1.6, p.48-54 (Official Submission) p.47-51 (UTG)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
19	30	Energy	1AA	the reporting for the energy sectors still lacks transparency	Activity data provided	Chapter A2.11-A2.12 of Annex 2, p.391-412 (Official Submission), p. 352-377 (Unofficial Translation of Official Submission).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
20	30	Industrial Processes	2C1	the reporting for the industrial processes sectors still lacks transparency	Additional explanations and information were	Chapter 4.2.3, p.105 (Official	Yes	The 2011 Submission of Ukraine

№	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					provided	Submission), p.100 (Unofficial Translation of Official Submission); Chapter 4.3.3, p.107 (Unofficial Translation of Official Submission), p.102 (Unofficial Translation of Official Submission) etc. before Chapter 4.21.8.3, p.154 (Official Submission), p.143 (Unofficial Translation of Official Submission);		(submitted 08/06/2011)
21	30	Industrial Processes	2	the transparency of the AD and EFs used in the industrial processes sector decreased in the 2010 submission, because limited information was provided for some categories due to the confidentiality of data, and also because of the aggregation of these categories	Aggregation of confidential AD and emissions improved. Number of categories with confidential data reduced from 17 to	CRF, TABLE 2(I).A-G	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

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				with likely non-confidential categories, with no additional explanations on the increased confidentiality provided in the NIR	14.			
22	32	LULUCF	5	the land representation in the LULUCF sector and the identification of areas under KP-LULUCF activities are not consistent and reporting in the sectoral LULUCF and KP-LULUCF CRF tables is not transparent	Database for reporting of 3.3-3.4 activities (KP-LULUCF) developed	p.215, 272-287 (Official Submission); p.198-199, 250-265 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
23	29	Agriculture	4	Explanations for the country-specific parameters (e.g. FracGASF) used in the agriculture sector have not been improved	More background data about fractions of N losses from fertilizers provided	Chapter 6.5.2, p.197, 203-204 (Official Submission); p.182-183, 188-189 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
24	35	Energy	1AA	A number of strong recommendations in the previous review report have not yet been implemented, particularly those relating to the transparency of AD and EFs in the energy and industrial processes sectors, the provision of the energy and coke balances	Data provided	Chapter A2.8, A2.11, A2.12 of Annex 2, p.385-388, 391-412 (Official Submission), p. 344-347, 352-377 (Unofficial Translation of Official Submission).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
25	35	Industrial Processes	2C1	number of strong recommendations in the previous review report have not yet been implemented, particularly those relating to the transparency of AD and	Balance for coking coal, coke and coke oven gas developed	Chapter A2.8, p.385 (Official Submission), p.347 (Unofficial Translation of Official	Yes	The 2011 Submission of Ukraine (submitted

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				EFs in the energy and industrial processes sectors, the provision of the energy and coke balances		Submission)		08/06/2011)
26	35	LULUCF	5	improvements required for LULUCF and KP-LULUCF reporting (e.g. ensuring a consistent land representation and identification of areas of KP-LULUCF activities in line with the IPCC good practice guidance for LULUCF and reporting of information on the geographical location of the areas used for calculation of the units of land subject to afforestation, reforestation, deforestation and forest management activities)	Database for reporting of 3.3-3.4 activities (KP-LULUCF) developed	p.276-287 (Official Submission) p.253-265 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
27	35	LULUCF	5	verify its country-specific approach, based on the balance of nitrogen (N) fluxes, and to estimate emissions and removals from soils (preferably by comparing the current method with the tier 2 approach in the IPCC good practice guidance for LULUCF) for the key category cropland remaining cropland	Expert judgment obtained. Correlation of resulting trends between CO2 emissions for mineral soils by IPCC and national methodology measured	p. 468-484 (Official Submission) p. 436-450 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
28	36	Energy	1AA	The development of country-specific EF CO2 emissions from combustion of natural gas	Additional research conducted	Chapter A2.5, p.369-380 (Official Submission),	Yes	The 2011 Submission of Ukraine

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
						p. 332-342 (Unofficial Translation of Official Submission).		(submitted 08/06/2011)
29	36	Industrial Processes	2C2	The development of country-specific EF CO2 emissions from ferroalloys	Carbon content in ore refined	Chapter 4.15.2, p.134-135 (Official Submission), p.125 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
30	36	Industrial Processes	2B3	The improvement of AD and parameters for adipic acid production	Parameters applied for technology used by Ukrainian enterprises	Chapter 4.11.2, p.123 (Official Submission), p.116 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
31	36	Industrial Processes	2B1	The improvement of AD and parameters ammonia production	CS CO2 EF used	Chapter 4.9.2, p.118 (Official Submission), p.111 (UN)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
32	36	Industrial Processes	2F8	The improvement of AD and parameters SF6 use in electrical equipment	Additional AD collected	Chapter 4.21.8.3, p.153 (Official Submission), p.142 (Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
33	36	LULUCF	5	The improvement of AD and parameters the updating of the areas of forest land, cropland and grassland	Database for 3.3-3.4 activities developed and	p.482-484 (Official Submission p.447-450 (Unofficial	Yes	The 2011 Submission of Ukraine

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				(areas of different soil types by climatic zone)	data of area for other Land-Use Categories collected	Translation of Official Submission)		(submitted 08/06/2011)
34	37	LULUCF	5	The provision of the information on the structure of the national system for the compilation and reporting of KP-LULUCF activities	Description of structure of national system for the compilation and reporting of KP-LULUCF activities extended	p.267-269 (Official Submission), p.246-248(Unofficial Translation of Official Submission)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
35	37	LULUCF	5	The provision of a matrix of land-use conversions for the LULUCF sector for the representation of areas of land-use categories;	Description of matrix of land-use conversions for LULUCF sector extended and tables of annual matrix added	p.458-464 (ofSubm), p. 421-432 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
36	37	LULUCF	5	The improvement of the national system to ensure that areas of land subject to LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol are identifiable in accordance with paragraph 20 of the annex to decision 16/CMP.1;	Database for reporting of 3.3-3.4 activities (KP-LULUCF) developed (with requirements of paragraph 20 of the annex to decision 16/CMP.1)	p.215, 272-287 (Official Submission); p.198-199, 250-265 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
37	37	Cross-	-	The reporting of all relevant AD used in	1)Additional	1) Chapter 4.2.3, p.105	Yes	The 2011

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
		cutting issues		the inventory, particularly for the industrial processes sectors, including the energy and coke balances;	<p>explanations provided.</p> <p>2) Balance for coking coal, coke and coke oven gas developed.</p>	<p>(Official Submission), p.100 (UnTr);</p> <p>Chapter 4.3.3, p.107 (Official Submission), p.102 (UnTr)</p> <p>etc. before Chapter 4.21.8.3, p.154 (Official Submission), p.143 (UnTr);</p> <p>Chapter 4.10.1, p.120 (Official Submission), p.113 (UnTr)</p> <p>and Chapter 4.11.1, p.123 (Official Submission), p.115 (Official Submission).</p> <p>2) Chapter A2.8, p.385 (Official Submission), p.347 (UnTr)</p>		Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
38	37	Industrial Processes	2	The aggregation of confidential AD and emissions in a coherent way for confidential categories in the industrial processes sector	Aggregation of confidential AD and emissions improved.	CRF, TABLE 2(I).A-G	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
39	41	Energy	1AA	provide relevant information on the national energy balance, and use the splicing techniques recommended in the IPCC good practice guidance	Activity Data provided	Chapter A2.11-A2.12 of Annex 2, p.391-412 (Official Submission), p. 352-377 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
40	42	Energy	1AA	develop and use country-specific CO2 EFs and oxidation factors	Additional research conducted. Carbon content in natural gas and carbon content in coal calculated. Carbon oxidation factor calculated.	Chapter A2.5-A2.6, p. 369-382 (Official Submission), p. 332-344 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
41	44	Energy	1	improve the implementation of QA/QC procedures and verification activities, in particular using tier 2 QC procedures for key categories and to provide the relevant information in the NIR	QC procedures executed: 1) Detailed procedures for evaluating and monitoring the quality of existing approaches for determining methane emissions from underground coal	Chapter 3.3.1.4, p.91 (Official Submission), p. 86 (UnTr). Chapter 3.3.2.4, p.99-100 (Official Submission), p. 93-94 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					mining implemented; 2) Quality control of calculations of methane emissions associated with leaks in category "Natural Gas Transportation" carried out.			
42	46	Energy	1AA	the value of the losses factor for different fuels and the amount of losses in the transformation of different fuel types are not provided in the NIR. Therefore, the ERT could not assess whether they have been properly included in calculations and reported in the CRF tables.	Information about fuel losses provided	Chapter A2.11-A2.12 of Annex 2, p.391-412 (Official Submission), p. 352-377 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
43	49	Energy	1AB	further explore the possible reasons for the difference in the estimates for emissions from the consumption of solid fuels	Explanation provided	Chapter A4.1-4.2, p.500-509 (Official Submission), p. 465-474 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
44	49	Energy	1AC	clarify whether double counting of carbon stored in products has occurred, whether or not emission sources were included in calculations using the reference approach and whether emission estimates calculated using the	Explanation provided	Chapter A4.1-4.2, p.500-509 (Official Submission), p. 465-474 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				sectoral approach have been overestimated				
45	49	Energy	1AB	provide detailed data for the production, import, export and consumption of coke and coking coal (a coke balance is not provided in the current submission)	Coke and coking coal balance provided	Chapter A2.8, p.385-388 (Official Submission), p. 344-347 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
46	49	Energy	1AB	explain clearly and in detail the reasons for the differences between the reference and sectoral approaches	reasons for differences between reference and sectoral approaches provided	Chapter A4.1, p.500-504 (Official Submission), p. 465-468 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
47	49	Energy	1AB	clarify in the NIR the reasons for discrepancies (RA & SA) and the steps taken to minimize them.	reasons for differences between reference and sectoral approaches provided. New natural gas data used.	Chapter A4.1, p.500-504 (Official Submission), p. 465-468 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
48	51	Energy	1C1B	The ERT recommends that Ukraine examine and improve its method and the appropriate use of AD, and report transparently and in detail the calculations made for marine bunkers and domestic navigation in the NIR of its next annual submission.	Information provided	Chapter 3.2.2.2., p.65-66 (Official Submission), p. 64-65 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
49	52	Energy	1AB	provide a mass balance of coking coal and coke	Mass balance of coking coal and coke	Chapter A2.8, p.385-388 (Official Submission), p.	Yes	The 2011 Submission of

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					provided.	344-347 (UnTr).		Ukraine (submitted 08/06/2011)
50	52	Energy	1AB	provide a mass balance natural gas	Balance of natural gas provided.	Chapter A2.11, A2.12, A4.1 of Annex 2, p.391-412, 500-504 (Official Submission), p. 352-377, 465-468 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
51	52	Energy	1AA1C	provide further information on the method used to calculate and allocate emissions from coke production and use	Information provided	Chapter 4.13-4.14, p.126-134 (Official Submission), p. 118-125 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
52	53	Energy	1AD	Feedstocks and non-energy use of fuels: explain more clearly the estimation methods used and include supporting background data	Information provided	Chapter 3.2.3 and A4.2, p.66, 504-509 (Official Submission), p. 65, 469-474 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
53	54	Energy	1AA2	further improve transparency, Ukraine provide further information on how it allocates and reports fuels and their emissions under stationary combustion, in particular in the manufacturing industries and construction category	Information provided	Chapter A2.3, p.358-365 (Official Submission), p. 322-328 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
54	54	Energy	1A	use country-specific CO2 EFs for key categories in accordance with the IPCC good practice guidance	Additional research conducted. Carbon content in natural gas	Chapter A2.5, p.369-380(Official Submission), p. 332-342 (UnTr).	Yes	The 2011 Submission of Ukraine

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
					and carbon content in coal calculated and relevant EFs used.			(submitted 08/06/2011)
55	55	Energy	1B2C	use the appropriate notation key for venting of natural gas in its next annual submission, as well as check the proper use of notation keys for all categories and gases in accordance with the UNFCCC reporting guidelines	Appropriate notation key used	CRF	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
56	56	Energy	1B2C	recommends that Ukraine use these data sources for future annual submissions and transparently document the methodology, EFs and AD used for the revised calculations	EFs and AD used for calculations	Chapter 3.3.2., p.92-101 (Official Submission), p. 87-96 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
57	57	Energy	1AA3B	The ERT noted that the IEF for CH ₄ for liquefied petroleum gas (LPG) in road transportation reported by Ukraine in the CRF tables is equivalent to that reported for natural gas and appears to be taken from the default EF for natural gas in table 1-7 of the Reference Manual of the Revised 1996 IPCC Guidelines (50 kg/TJ). This is not the correct EF to use for calculating CH emissions from LPG used by road transportation	IEF for CH ₄ for liquefied petroleum gas corrected	Sector 1.A.3.b in CRF	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
60	58	Energy	1AA3B	The ERT noted that the N ₂ O EF used in	N ₂ O EF for gasoline	Sector 1.A.3.b in CRF	Yes	The 2011

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				the calculations for gasoline cars (0.6 kg/TJ) for the complete time series is below the IPCC default range (1ñ20 kg/TJ) and that the EF used for diesel cars (0.6 kg/TJ) for the complete time series is below the IPCC default range (3ñ4 kg/TJ). Ukraine has not provided information in a transparent manner on the number of new and used vehicles equipped with different technologies that would justify the use of lower or higher EFs. Some age and technology classes of vehicles have significantly higher N2O emissions and the EFs used in the inventory may not be representative of the actual condition of the vehicle fleet, and may lead to an underestimation of emissions from some vehicle age and technology classes	and diesel cars corrected			Submission of Ukraine (submitted 08/06/2011)
58	62	Industrial Processes	2F2	"NO" be reported for foam blowing if all the imports are referred to open-cell foams, otherwise if at least part of the imports are referred to closed-cell foams, emissions should be estimated.	National activity data collected, emissions calculated on that basis	Chapter 4.21.2, p. 148 (Official Submission), p.137 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
59	63	Industrial Processes	2F	ERT recommended that Ukraine check whether these subcategories and other	National activity data collected, emissions	Chapter 4.21.1.2, p. 144 (Official Submission),	Yes	The 2011 Submission of

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				subcategories and relevant related gases under consumption of halocarbons and SF6 occur in the country, in particular for the subcategory refrigeration and air conditioning equipment; and for those categories and gases occurring in the country provide estimates in accordance with the IPCC good practice guidance.	calculated on that basis	p.133 (UnTr). Chapter 4.21.1.3, p. 146 (Official Submission), p.135 (UnTr)		Ukraine (submitted 08/06/2011)
60	65	Industrial Processes	2	aggregate emissions in a coherent and systematic way so that emissions corresponding to confidential categories are grouped under the same category where their AD are reported, that fewer categories are reported as confidential and allow provision of data in future reviews at the request of ERT.	Aggregation of confidential AD and emissions improved. Number of categories with confidential data reduced from 17 to 14.	CRF, TABLE 2(I).A-G	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
61	67	Industrial Processes	2A2	for 1990-2003 data for lime production disaggregated into types of lime were not available and the country-specific ratio for hydrated/quicklime of 2004	Data provided	Chapter 4.3.3, p.107 (Official Submission), p.102 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				(55/45) was used for all these years. However, since 2004, data disaggregated by type of lime have been available and applied, resulting in some CO ₂ IEF fluctuations after 2004 (0.6-2.5%). However, these data were not provided in the NIR.				08/06/2011)
62	68	Industrial Processes	2A2	the CRF tables report an IEF of 0.6526 t/t for lime production in 2008, which is lower than the default values (0.75 t/t for high-calcium quicklime and 0.86 t/t for dolomitic lime). The ERT considers that, in the CRF tables, Ukraine reported total lime production as AD even though emissions were estimated using a default 0.97 correction factor for hydrated lime, as recommended in the IPCC good practice guidance.	Mistake corrected	Chapter 4.3.3, p.107 (Official Submission), p.102 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
63	69	Industrial Processes	2A3	The NIR explains that Ukraine estimated emissions from limestone and dolomite use in metal production and glass production. However, the CRF tables present only limestone use as AD under this category. During the centralized review, in its response to the ERT questions regarding the provision of data on dolomite use, Ukraine	Data corrected	Chapter 4.4.3, p.110 (Official Submission), p.104 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				explained that because glass production is confidential, dolomite data are also confidential and thus cannot be reported or provided. This exclusion of the amount of dolomite used led to a higher CO ₂ IEF (0.4845 t/t), although default EFs were used to estimate emissions (0.440 t/t for limestone and 0.477 t/t for dolomite)				
64	70	Industrial Processes	2A2	The ERT noted a mistake in the estimation of total consumption of limestone in table 4.2 of the NIR, which might have led to an underestimation of emissions	Typo corrected	Chapter 4.4.2, p.109 (Official Submission), p.103 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
65	72	Industrial Processes	2C1	provide a coke balance (carbon in coke) to increase the transparency of the estimates and ensure that there is no double counting or omission of emissions.	Balance for coking coal, coke and coke oven gas developed.	Chapter A2.8, p.385 (Official Submission), p.347 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
66	73	Industrial Processes	2	Ukraine reports that the AD for silicon carbide and soda ash production are confidential. CRF table 2(I).A-G reports aggregated CO ₂ emissions for soda ash use and carbide production (both silicon and calcium, as explained in the NIR). CH ₄ emissions from silicon carbide production are reported under the	1)Emissions from production of soda ash and carbide presented separately 2) Additional explanations provided.	1)CRF, TABLE 2(I).A-G 2) Chapter 4.12.1 and 4.12.2, p.125 (Official Submission), p.117 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				aggregated category ethylene and other production, but the AD for this category do not include silicon carbide production. The NIR provides methodological explanations only for calcium carbide production and use. The ERT concluded that the reporting of emissions from carbide production is not transparent and not in line with the IPCC good practice guidance, and the fact that the categories were not aggregated in a systematic way makes it difficult for the ERT to assess the consistency, comparability and accuracy of estimates.				
67	74	Industrial Processes	2B	The ERT noted that the AD for nitric acid production and adipic acid production are reported as "C", while N ₂ O IEFs are reported as "IE". N ₂ O emissions for these two categories are reported aggregated under one category. The NIR reports that the IPCC default EF was used to estimate emissions from adipic acid production and country-specific EFs were used for nitric acid production, which the Party states are in line with	1) Emissions from nitric acid production and adipic acid production presented separately 2) Additional explanations provided.	1)CRF, TABLE 2(I).A-G 2) Chapter 4.10.1, p.120 (Official Submission), p.113 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				the average of the IPCC default range (2-19 kg/t). During the centralized review, Ukraine provided the ERT with the country-specific EF of 4.5 t/t, which is equal to the default value in the IPCC good practice guidance for atmospheric pressure plants. The NIR reports that emission estimates were assessed by an independent expert, although no further information or descriptions are provided, for example on the abatement technology used in the country.				
68	78	Agriculture	4	provide justifiable explanations on fluctuations of emissions time series with supporting charts or tables when necessary	Detailed description of factors underlying GHG emission trends in the key categories provided	Chapter 6.2.4, p.177-180, 190-192, 206-207 (OffSubm); p.164-167, 176-179, 191-192 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
69	79	Agriculture	4A	There is no descriptive information on uncertainty analysis or on the methodologies used for calculating the uncertainties of estimates performed using tier 3 methods for CH ₄ emissions from enteric fermentation	Initial data, methodology and results of emissions uncertainty estimation from cattle enteric fermentation included	Chapter 6.2.3, Annex: tables A3.1.17-A3.1.18, p.174-175, 447-448 (OffSubm); p.161-162, Annex: tables A3.1.17-A3.1.18	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
70	80	Agriculture	4	report clearly and accurately the increase or decrease resulting from the	Tables with recalculated values	Tables 6.1, 6.6, 6.13, 6.18, and 6.20,	Yes	The 2011 Submission of

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				recalculations for categories and for the sector, as well as the impact on the national total.	provided	p.165,181,193,210, 213 (OffSubm); p.153,167,179,195,197 (UnTr)		Ukraine (submitted 08/06/2011)
71	83	Agriculture	4A	provide more detailed explanations in methodologies used to estimate the EFs.	More detailed explanations provided	Chapter 6.2.2, p.166-170, 172 (OffSubm) p.154-157, 159-160 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
72	83	Agriculture	4A	conduct a peer review of country-specific EFs and document the results in the NIR	Peer review of methodologies underlying country-specific EFs from cattle enteric fermentation as well as cattle, swine and poultry manure management. Peer review documentation presented in Archiving system	Chapter 6.2.4, p.180; Chapter 6.3.4, p.193; Chapter 1.6, p.51 (OffSubm); p.167,179,49 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
73	84	Agriculture	4A	The CH ₄ IEFs for non dairy cattle for 1990-2008 (ranging from 0.87 to 15.14 kg/head/year) fluctuate every year. The 2008 value (2.17 kg/head/year) is 85.6 per cent lower than the value in 1990. As explained	More detailed explanation on manure management IEFs trends fluctuation provided	Chapter 6.3.4, p.191-192 (OffSubm); P.177-178 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				in the NIR, this is due to changes of AWMS practices, mainly in modern dairy farms which have been built in recent years; however, the ERT notes that the explanation is not sufficiently clear.				
74	87	Agriculture		The ERT noted that no explanations have been provided in the NIR on the differences of area cultivated organic soils or on the reliability of the data used for the current inventory.	Explanation of discrepancy in organic soils area and reliability of data used in 2011 submission provided	Chapter 6.5.2, p.200-201 (OffSubm); p.185-186 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
75	90	LULUCF		provide a detailed explanation on the assumptions and approaches used to detect land converted to forest land.	Database for reporting of 3.3-3.4 activities (KP-LULUCF) developed and detailed description of calculation process added.	p.462-464 (Official Submission), p.430-432(UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
76	90	LULUCF		include in its reporting all mandatory land-use conversions	All mandatory land-use conversions considered and assumptions described in NIR	p. 459-463 (Official Submission), p. 424-431 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
77	91	LULUCF		classify temporary fallow under the cropland category in accordance with	Description of fallow and additional	p. 229 (Official Submission)	Yes	The 2011 Submission of

№	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				the IPCC good practice guidance for LULUCF.	explanations are added in NIR	p. 211 (UnTr)		Ukraine (submitted 08/06/2011)
78	92	LULUCF		estimate and report N2O emissions from N fertilization of forest land if AD related to this activity are available	Data collected and calculations made	p. 468-484 (Official Submission), p.436-449 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
79	92	LULUCF		CO2 emissions from the application of limestone on grassland have been reported also as "NE", and the Party explained in the CRF tables that the data for the application of limestone on grassland are not available.	Data for the application of limestone on grassland are not available and acronyms replaced with "NO"	CRF tables, Table 5C	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
80	93	LULUCF		provide additional information on the method and assumptions used in the uncertainty assessment, to clarify how values, especially those based on expert judgment, are selected, considering that the reported values are considerably lower than the uncertainty default values	Uncertainty assessment considered in relevant sections of NIR, LULUCF sector. Tables with numerical values provided	p. 289-292 (Official Submission), p. 267-269 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
81	95	LULUCF		The ERT noted discrepancies between that forest land areas reported in the NIR (table П3.2.20) and those reported in the CRF tables;	Data in tables of NIR and CRF cross-checked. Numerical values tally	CRF tables, tabs.П3.2.3 , П3.2.8, П3.2.23 (Official Submission); tabs. A3.2.3, A3.2., A3.22 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
								08/06/2011)
82	96	LULUCF		Ukraine provided a table showing distribution of administrative districts by the different natural zones.	Data collected and detailed description added	p.488-489 (Official Submission), p.454 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
83	96	LULUCF		ERT notes that the information provided is not sufficient to allow an evaluation of the carbon stock changes estimates	Detailed description and additional data entered	p.468, 488 (Official Submission) p.436, 454 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
84	98	LULUCF		verify its estimates (preferably by comparing the current method with the tier 2 approach in the IPCC good practice guidance for LULUCF)	Correlation of resulting trends between CO2 emissions for mineral soils by IPCC and national methodology conducted	p.268-269 (Official Submission), p.236 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
85	98	LULUCF		provide additional information explaining the emissions/removals trend of cropland soils and the methodology used in the estimates, focusing on the relation C:N used	Correlation of resulting trends between CO2 emissions for mineral soils by IPCC and national methodology measured.	p.468-474 (Official Submission), p. 436-442 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
86	99	LULUCF		Ukraine used a country-specific approach, based on the balance of N	Expert judgment obtained.	p. 468 (Official Submission),	Yes	The 2011 Submission of

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				fluxes, to estimate emissions and removals from soils, similar to the approach used for the cropland remaining cropland category. The ERT noted a significant difference (300.6 per cent of decrease) in the estimate of CO ₂ emissions and removals from the grassland remaining grassland category in 2007, between the 2009 and 2010 submissions.	Correlation of resulting trends between CO ₂ emissions for mineral soils by IPCC and national methodology measured	p. 436 (UnTr)		Ukraine (submitted 08/06/2011)
87	100	LULUCF		Ukraine reported carbon stock changes in living biomass and in dead organic matter (not mandatory) as "NE" for the period 1990-2008, explaining that data on perennial trees do not exist in Ukraine.	In CRF 2011 "NE" changed to "NO"	CRF tables, Table 5C	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
88	110	Industrial Processes	2F1	HFC and PFC emissions from refrigeration and air-conditioning Equipment	National activity data collected, emissions calculated on that basis	Chapter 4.21.1.2, p. 144 (Official Submission), p.133 (UnTr). Chapter 4.21.1.3, p. 146 (Official Submission), p.135 (UnTr).	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
89	110	Industrial Processes	2F2	HFC emissions from foam blowing	Emissions calculated on driver base	Chapter 4.21.2, p. 148 (Official Submission), p.137 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

№	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
90	110	Industrial Processes	2F3	HFC and PFC emissions from fire extinguishers	Emissions calculated on driver base	Chapter 4.21.3, p. 149 (Official Submission), p.138 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
91	110	Industrial Processes	2F4	HFC emissions from aerosols/metered dose inhalers	National activity data collected, emissions calculated on that basis	Chapter 4.21.4, p. 150 (Official Submission), p.139 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
92	139	LULUCF		During the centralized review, the ERT noted that in Ukraine is reporting, land uses and land-use changes are not properly represented, resulting in overlapping areas of different categories and conversion categories, leading to double counting and consequently to a potential overestimation of removals by sinks and underestimation of emissions by sources. ERT considered that Ukraine did not meet the mandatory requirements regarding the national system for Article 3, paragraphs 3 and 4, of the Kyoto Protocol in its 2010 submission, or the mandatory reporting requirements included in decision	Database for 3.3-3.4 activities (KP-LULUCF) developed. Data for balance matrix described in detail and information about land assessment process expanded	p. 456-467 (Official Submission), p. 421-435 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				15/CMP.1				
93	142	LULUCF		approach 1 for representing land areas which Ukraine intends to use does not meet the land area identification requirements under the Kyoto Protocol; in fact, approach 1 can only be applied to reporting method 1 if additional spatial data at the required spatial resolution are available as a result of re-compiling the inventory information, and if the gross land-use transitions (rather than the net changes in land-use categories) are quantified (IPCC good practice guidance for LULUCF, section 4.2.2.3.1, page 4.25).	Database for 3.3-3.4 activities (KP-LULUCF) developed	p. 276-287 (Official Submission), p. 253-265 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
94	143	LULUCF		ERT notes that the national system is not able to ensure a consistent land representation, or to ensure that areas of land subject to LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol are identifiable in accordance with paragraph 20 of annex to decision 16/CMP.1	Database for 3.3-3.4 activities (KP-LULUCF) developed with all mandatory aspects of information	p.297, 530-531 (Official Submission), p. 274, 490-491 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
95	144	LULUCF		2010 submission Ukraine has not accounted for all carbon stock changes in the following mandatory carbon	Additional research conducted EF calculated	p.494-496 (Official Submission), p.460-461 (UnTr)	Yes	The 2011 Submission of Ukraine

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				pools: dead wood (for the units of land subject to afforestation, reforestation and deforestation activities); and litter, dead wood and soil (for the units of land subject to forest management activities). The ERT noted that a Party may choose not to account for a given pool in a commitment period if transparent and verifiable information is provided that the pool is not a net source (para. 21 of the annex to decision 16/CMP.1). The ERT also noted that Ukraine did not provide transparent and verifiable information demonstrating that these unaccounted pools were not net sources of emissions. Therefore Ukraine did not meet the mandatory reporting requirements stated in decisions 15/CMP.1 and 16/CMP.1.	Calculations of CSC for above forest pools prepared			(submitted 08/06/2011)
96	145	LULUCF		Ukraine provided a document containing an expert opinion relating to the carbon stocks in the dead wood, litter and soil pools in forest. In the ERTs view, this study and the graph reported on Dynamics of carbon stocks in modal pine plantations on left-bank of wooded	Additional research conducted EFs calculated Calculations of CSC for such forest pools prepared	p.494-496 (Official Submission), p. 460-461 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				steppe regions in Ukraine do not demonstrate that the dead wood, litter and soil pools are not net sources of emissions for the Ukrainian national territory, as carbon stocks are correlated to different management practices and climatic conditions and a single study (on plantations) cannot be representative of the national territory.				
97	147	LULUCF		Ukraine provided information on its forest definition and forest management rules in its 2010 annual submission and in responses the Party provided to the ERT during the centralized review. However, the ERT considered that the information provided did not demonstrate that activities of planting, seeding and/or human-induced promotion of natural seed sources have been carried out in the units of land in conversion to forest (para. 1(b) and 1(c) of the annex to decision 16/CMP.1).	Description of human-induced activities added	p.297, 530-531 (Official Submission), p. 274, 490-491 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
98	148	LULUCF		Ukraine also indicated that afforestation activities in Ukraine are conducted according to: Instructions for designing, acceptance, recording and	Database for 3.3-3.4 activities (KP-LULUCF) developed with all mandatory aspects of	p. 293-294 (Official Translation to Ukrainian), p. 270-275 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				evaluating the quality of the cultivated sites (approved by the Ministry of Forestry of Ukraine on 8 July 1997, No. 62) and Rules afforest reproduction (approved by the Cabinet of Ministers of Ukraine on 1 March 2007, No.303). Under these requirements, special documentation for projects of afforestation should be prepared for each case and for different periods of this activity, according to the requirements of the law. Ukraine also indicated that this documentation may be used for the demonstration of direct human-induced components. In the ERTs view, the response provided by Ukraine does not address the potential problem. In particular, no information has been supplied to demonstrate that all natural regeneration of forests is the consequence of direct human-induced activities or that a decision was taken to allow trees to grow as a promotion of natural seed sources on each unit of land reported under afforestation and reforestation activities. Therefore the ERT considers this problem as	information. Description of human-induced activities added			08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				unresolved.				
99	151	LULUCF		Ukraine reported carbon stock changes in above-ground biomass, litter and soil pools, but the Party reported below-ground carbon stock changes as iLEI and did not provide estimates for the dead wood pool.	EF for calculation of CSC in pools of above-ground and below-ground biomass shown in NIR. For dead wood pool additional research conducted, EFs calculated CSC calculated	p.494-496 (Official Submission), p.460-461 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
100	152	LULUCF		Ukraine did not report GHG emissions from biomass burning. During the centralized review, Ukraine clarified that data on burned areas are available only for land covered by forest, without distinction between area under afforestation/reforestation or forest management activities. Ukraine also acknowledged the need to conduct special	Expert judgment obtained as confirmed by data collected	p.230 (Official Submission), p.211-212 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)
101	153	LULUCF		In its 2010 submission, Ukraine did not provide information on emissions and removals of GHG from lands harvested during the first commitment period following afforestation and reforestation on these units of land	Database for 3.3-3.4 activities (KP-LULUCF) developed. Emissions and removals of GHG from lands harvested during the first	p. 230, 294, 455-457 (Official Submission), p. 212, 271, 419 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

No	Paragraph in ARR2010	Sector of IPCC	Code of IPCC's Category	Brief description of the ERT recommendation/notification	Actions taken	Reference in the NIR2011 and/or CRF2011 (page number)	Corrected in the 2011 Submission of Ukraine	Status of implementation
				since 1990. Therefore, the ERT considered that Ukraine did not meet the mandatory reporting requirements stated in paragraph 8(c) of the annex to decision 15/CMP.1 and recommended that the Party provide this required information.	commitment period following afforestation and reforestation on these units of land since 1990 calculated			
102	154	LULUCF		Ukraine reported carbon stock changes in above-ground biomass, litter and soil pools, but the Party reported below-ground carbon stock changes as "IE" and did not provide estimates for the dead wood pool.	EF for calculation of CSC in pools of above-ground and below-ground biomass shown in NIR. For dead wood pool additional research conducted, EF calculated, CSC calculated	p.484-493 (Official Submission), p.452-460 (UnTr)	Yes	The 2011 Submission of Ukraine (submitted 08/06/2011)

Table 2 – A Plan of Additional Measures necessary for ensuring the effective and timely functioning of Ukrainian National Inventory System in accordance with the requirements of the Guidelines for national systems under Article 5, paragraph 1 of the Kyoto Protocol adopted by Decision 19/CMP.1

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium/low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
General functions of national inventory system & Completeness				
§ 37(i)(d)(j)(g)(k) FCCC/ARR/2010/UKR	Continue work to set up a GIS system (database) for areas and types of activity characteristics on afforestation and deforestation, and forest management (3.3/3.4 KP)	High	Submission 2012 15/04/2012	In progress Stage one completed 15/03/2011, consisting in data collection across all administrative units. Output fed into Ukraine's 2011 submission. Stage two aimed at populating a detailed GIS database for activities under pp. 3 and 4 of Article 3 of KP. Stage two in progress. Results of stage one for three provinces of Ukraine presented to ERT during in-country review of Ukraine's 2011 submission. Feedback positive. Funds allocated for this job (see Annex A, No. 11).
Energy sector				
§ 41 FCCC/ARR/2010/UKR Activity data for reference approach for 1991-1997	Collect activity data for 1991-1997 to apply reference approach	Medium	Submission 2012 15/04/2012	In progress
§ 42 FCCC/ARR/2010/UKR	Collect input data and calculate country-specific	High	Submission 2012	Raw data collected.

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium/low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
Country-specific EFs for natural gas	EFs for natural gas which extracted in Ukraine		15/04/2012	Processing in progress
§ 42 FCCC/ARR/2010/UKR Country-specific EFs for gasoline and diesel oil	Collect input data and calculate country-specific EFs for gasoline and diesel oil used in Ukraine	Medium	Submission 2013 October 2012	Planned
§ 58 FCCC/ARR/2010/UKR Use higher tier methods to assess non-CO2 emissions	Research planned to assess non-CO2 emissions for category 1.A.3.b Road Transport using the COPERTIV model.	High	Submission 2012 15/04/2012	Stage one completed 01/10/2011. At first stage, raw data collected and non-CO2 emissions assessed using COPERTIV model. Stage one results presented to ERT during in-country review of Ukraine's 2011 submission. Stage two features QC procedures and adjustment of raw data. Funds allocated for this job (see Annex A, No.4).
§ 3.3.1.6NIR2011 Adjustment of coal mine methane emissions assessment	Research planned to assess methane emissions by coal mines using results of direct measurements	Medium	Submission 2012 15/04/2012	In progress Funds allocated for this job (Annex A, No. 3).
Industrial processes				
§36(a) FCCC/ARR/2010/UKR The development of country-specific EF CO2 emissions from cement production	Research planned to calculate country-specific EF CO2 emissions from cement production	High	Submission 2012 15/04/2012	In progress Funds allocated for this job (Annex A, No. 9).
§36(a) FCCC/ARR/2010/UKR The development of	Research planned to calculate country-specific EF CO2 emissions from ferroalloys	High	Submission 2012 15/04/2012	In progress Funds allocated for this job (Annex A, No. 6).

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium /low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
country-specific EF CO2 emissions from ferroalloys				
§36(a) FCCC/ARR/2010/UKR The development of country-specific EF CO2 emissions from limestone and dolomite use	Research planned to calculate country-specific EF CO2 emissions from CO2 emissions from limestone and dolomite use	High	Submission 2012 15/04/2012	In progress Funds allocated for this job (Annex A, No. 8).
§ 62, 63 FCCC/ARR/2010/UKR Emissions of HFC, PFC and SF6	Research planned to assess emissions of HFC, PFC and SF6 using detailed national data.	High	Submission 2012 15/04/2012	Ukraine's 2011 submission includes assessment of emissions for this category. Assessment of emissions for foam and blowing and fire extinguishers, conducted using drivers though. Research planned to assess emissions of HFC, PFC and SF6 using national data. c (see Annex A). Stage one completed 01/10/2011. Emissions from foam blowing and fire extinguishers assessed using national data. Results of stage one presented to ERT during in-country review of Ukraine's 2011 submission. Stage two aimed at assessing emissions from aerosols, QC procedures for foam blowing, fire extinguishers and metered dose inhalers. Funds allocated for this job (see Annex A, No.5).
Agriculture				

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium/low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
§36(a) FCCC/ARR/2010/UKR The development of country-specific direct N ₂ O emissions from agricultural soils	Research planned to calculate country-specific direct N ₂ O emissions from agricultural soils	Medium	Submission 2013 October 2012	In progress Funds allocated for this job (see Annex A, No. 10).
KP-LULUCF				
§ 37(g), 140-143, 147-149 FCCC/ARR/2010/UKR	The completing of database development and maintenance for areas and types of activity characteristics of afforestation and deforestation, and forest management planned	High	Submission 2013 October 2012	In progress Stage one completed 15/03/2011, consisting in data collection across all administrative units. Output fed into Ukraine's 2011 submission. Stage two aimed at populating a detailed GIS database for activities under pp. 3 and 4 of Article 3 of KP. Stage two in progress. Results of stage one for three provinces of Ukraine presented to ERT during in-country review of Ukraine's 2011 submission. Feedback positive. Funds allocated for this job (see Annex A, No. 11).
§ 37(g), 144-146 FCCC/ARR/2010/UKR	Research planned for Identification of carbon stock change and EF for carbon pools of dead biomass, litter and soil in on Forest Land per	High	Submission 2013 October 2012	In progress. First stage of the research completed

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium /low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
	nature zones.			<p>01/10/2011. Information obtained through a review of scientific publications on the subject. Data confirmed through laboratory testing of organic materials from pools of left-side woody-steppe forest. Results used and reflected in the 2011 submission of Ukraine. In addition, the complete collection of field data (samples of organic material of forest pools per nature zones) for laboratory analysis.</p> <p>Stage two aimed at completing research. EFs for CSC of forest pools of dead biomass and litter expected. For soil pool scientific confirmations of non-emissionary increase in organic materials to be obtained. Stage two in progress. Results of stage one presented to ERT during in-country review of Ukraine's 2011 submission</p> <p>Funds allocated for this job (see Annex A, No. 12)</p>
Waste				
§36(c) FCCC/ARR/2010/UKR The development of national model for calculation of GHG	Research planned for landfill gas production of the largest municipal solid waste (MSW) landfills and transfer to the three component national model for calculation of GHG emissions from landfills in Ukraine.	Medium	Submission 2012 15/04/2012	In progress Funds allocated for this job (see Annex A, No. 1).

Issue	Planned improvement for 2012 and next submissions	Priority (high/medium/low)	Improvement to be implemented in a submission	Status of Implementation as of November 2011
emissions from landfills	Results to improve precision of emissions assessment in Waste sector and reduce overall uncertainty of emissions assessment			
§ 36(b) FCCC/ARR/2010/UKR The development of country-specific nitrous oxide emission factors from the waste water treatment	Research planned of methane and nitrous oxide emissions from the waste water treatment and the development of methodology for determining of national emission factors. Results to improve precision of emissions assessment in Waste sector and reduce overall uncertainty of emissions assessment	Medium	Submission 2012 15/04/2012	In progress Funds allocated for this job (see Annex A, No. 2).

Section IV. TIMETABLE FOR IMPLEMENTING MEASURES

The timeframe covers the period 2011-2012 and the period intended for implementation of each measure is signified in the table 2Section III above to each measure.

Annex A. Research projects planned to improve inventory management with funds committed for 2011-2012

#	Name of research project	Expected research completion date of and submission to reflect results
1	Research of landfill gas production of the largest municipal solid waste (MSW) landfills and transfer to the three component national model for calculation of GHG emissions from landfills in Ukraine	March 2012 Submission 2012
2	Research of methane and nitrous oxide emissions from the waste water treatment and the development of methodology for determining of national emission factors	March 2012 Submission 2012
3	Development of methodology for calculation and assessment of methane emissions from coal mines	March 2012 Submission 2012
4	Development of methodology for calculation and determination of greenhouse gas emissions volumes from mobile sources	March 2012 Submission 2012
5	Development of methodology for calculation and determination of hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride emissions	March 2012 Submission 2012
6	Development of methodology for calculation and determination of carbon dioxide emissions from the production of iron, steel and ferroalloys	March 2012 Submission 2012
7	Development of methodology for calculation and determination of carbon dioxide emissions from the production of chemical products	October 2012 Submission 2013
8	Development of methodology for calculation and determination of carbon dioxide emissions from limestone and dolomite usage	March 2012 Submission 2012
9	Development of methodology for calculation and determination of carbon dioxide emissions from cement production	March 2012 Submission 2012
10	Development of methodology for calculation and determination of	October 2012

#	Name of research project	Expected research completion date of and submission to reflect results
	nitrous oxide emissions from agricultural soils	Submission 2013
11	Database development and maintenance for areas and types of activity characteristics on afforestation and deforestation, and forest management	October 2012 Submission 2013
12	Identification of stocks of carbon for land use category "Forests" in the reservoirs of biomass (living and dead), litter and soil in the context of climatic zones	October 2012 Submission 2013