



**Министерство охраны окружающей
природной среды Украины
Национальное агентство экологических
инвестиций Украины**

**НАЦИОНАЛЬНЫЙ КАДАСТР
АНТРОПОГЕННЫХ ВЫБРОСОВ ИЗ
ИСТОЧНИКОВ И АБСОРБЦИИ
ПОГЛОТИТЕЛЯМИ ПАРНИКОВЫХ
ГАЗОВ В УКРАИНЕ ЗА 1990-2008 ГГ.**

Часть II

(исправленные и дополненные разделы 12, 14, 15 и Приложение 6)

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КИЕВ 2010



**Ministry of Environmental Protection of Ukraine
National Environmental Investment Agency**

**NATIONAL INVENTORY REPORT
OF GREENHOUSE GAS EMISSIONS AND
REMOVALS IN UKRAINE FOR 1990-2008**

Part II
(revised and added Chapters 12,14,15 and Annex 6)

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KIEV 2010

CONTENT

| | |
|--|----|
| 12. Information on Accounting of the Kyoto Protocol Units ¹ | 4 |
| 14 Information on Changes in National Registry | 8 |
| 15. Information on Minimization of Adverse Impact in Accordance with Article 3, paragraph 14 ² | 11 |
| Annex 6 Additional information to be considered as part of the annual inventory submission and the supplementary information required under Article 7, paragraph 1, of the Kyoto Protocol or other useful reference information ³ | 12 |

¹ Chapters 12, 14 are prepared by national register administrators A. Shmurak, Y. Mikheev, National Environmental Investment Agency of Ukraine and technical national register administrator A. Dogadin, JSK Softline. The CPR value used in Chapters is calculated by M. Bereznytska, climate change expert, Environmental (Green) Investments Fund

² Chapter 15 is prepared by M. Bereznytska, climate change expert, Environmental (Green) Investments Fund and approved by N. Ivanenko, National Inventory Focal Point, National Environmental Investment Agency of Ukraine

³ Annex 6 is prepared by national register administrators A. Shmurak, Y. Mikheev, National Environmental Investment Agency of Ukraine and technical national register administrator A. Dogadin, JSK Softline

12 INFORMATION ON ACCOUNTING OF THE KYOTO PROTOCOL UNITS⁴

According to “Annotated outline of the National Inventory Report including reporting elements under the Kyoto Protocol” the *Chapter 12: Information on accounting of Kyoto units must include next parts:*

12.1 Background information

12.2 Summary of information reported in the SEF tables

12.3 Discrepancies and notifications

12.4 Publicly accessible information

12.5 Calculation of the commitment period reserve (CPR)

12.6 KP-LULUCF accounting

The following reports are described in this document and correspond to the requirements of decisions 14/CMP.1 and 15/CMP.1. Information required under Decision 15/CMP.1 paragraph 11 is displayed as required by UNFCCC ITL Administrators' "Standard Independent Assessment Report. Reporting Requirements and Guidance for Registries v4.0"

in . The Standard Electronic Format (hereinafter as SEF) report for 2009 has been submitted to the UNFCCC Secretariat electronically and the content of the report can also be found in this document.

| Annual Submission Item | Information according Reporting Guidance |
|--|---|
| 15/CMP.1 annex I.E paragraph 11: Standard electronic format (SEF) | The Standard Electronic Format report for 2009 has been submitted to the UNFCCC Secretariat electronically. SEF, containing the information required in paragraph 11 of the annex to decision 15/CMP.1, The SEF reports over the years published on NR website http://www.carbonunitsregistry.gov.ua/en/276.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/275.htm (Ukrainian language) This SEF report is referenced as report R-1 in this document. See Appendix 1 for more details related to the SEF report. |
| 15/CMP.1 annex I.E paragraph 12: List of discrepant transactions | No discrepant transactions occurred in 2009. The report of discrepant transactions is referenced as report R-2 in this document. |
| 15/CMP.1 annex I.E paragraph 13 & 14: List of CDM notifications | The report of CDM notifications is referenced as report R-3 in this document. (Appendix 3) No CDM notifications occurred in 2009. |
| 15/CMP.1 annex I.E paragraph 15: List of non-replacements | The report on non-replacements is referenced as report R-4 in this document. (Appendix 4) No non-replacements occurred in 2009. |
| 15/CMP.1 annex I.E paragraph 16: List of invalid units | The report of invalid units is referenced as report R-5 of this document. (Appendix 5) No invalid units exist as at 31 December 2009". |
| 15/CMP.1 annex I.E paragraph 17 | No actions were taken or changes made to address discrepancies for |

⁴ Chapters 12, 14 are prepared by national register administrators A. Shmurak, Y. Mikheev, National Environmental Investment Agency of Ukraine and technical national register administrator A. Dogadin, JSK Softline. The CPR value used in Chapters is calculated by M. Bereznytska, climate change expert, Environmental (Green) Investments Fund

| Annual Submission Item | Information according Reporting Guidance |
|--|---|
| Actions and changes to address discrepancies | the period under review. |
| 15/CMP.1 annex I.E Publicly accessible information | Following information is publicly accessible through the user interface of the registry web page http://www.carbonunitsregistry.gov.ua/en/269.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/270.htm (Ukrainian language) |
| Account information (Information on paragraph 45 of the annex to the decision 13/CMP.1); | Account information (Information on paragraph 45 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| Information about Entities Authorized to Hold Units (Information on paragraph 48 of the annex to the decision 13/CMP.1); | Information about Entities Authorized to Hold Units (Information on paragraph 48 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/681.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/699.htm (Ukrainian language&Russian Language) |
| 15/CMP.1 annex I.E paragraph 18 CPR Calculation | Calculation of commitment period reserve (CPR calculation) The commitment period reserve for Ukraine is calculated in accordance with decision 11/CMP.1 as 100% of the proposed assigned amount units or 100% of its most recently reviewed inventory times five. Ukraine has interpreted the “most recently reviewed inventory” the inventory for the year 2008 (submission 2010). That means $427799119 \times 5 = 2138995595$ tonnes CO ₂ eq. Real reserve on 30.12.2009 equal 4544475399 tonnes CO ₂ eq So calculated CPR lower than real reserve. Information is available on NR web site http://www.carbonunitsregistry.gov.ua/en/publication/content/686.htm (English language) http://www.carbonunitsregistry.gov.ua/ua/264.htm (Ukrainian Language) |

Reference Numbers in this table below made according the SIAR Part 1 Assessment Report
Template v 4.3

| RefNr | Requirement | Information |
|---|---|---|
| P1.2.1 | 14/CMP.1 annex I, paragraph 3 Has the Party transferred or acquired any Kyoto Protocol units in the reporting period or in any year prior to the reporting year? (If yes, Party is required to submit the SEF report) | The Party has transferred or acquired Kyoto Protocol units during or prior to the reported period as indicated in SEF and SEF CR. |
| P1.2.2 | 15/CMP.1 annex I.E paragraph 11 Has the Party provided a report in the SEF containing the information required by paragraph 11 of the annex to decision 15/CMP.1? (Yes is also indicated when the Party has not submitted a SEF and was not required to do so) | The first Party's SEF report [SEF] was made available to assessors by 22/04/2010. Unfortunately in the first version of SEF report in table 5a, data reported does not match the corresponding data reported by the ITL. Data from 2010 is reported. The Party submits a revised SEF report 09/07/2010. |
| 15/CMP.1 annex I.E paragraph 12 iscrepant transactions | | |
| P1.2.3 | Has the transaction log identified discrepancies in transactions proposed by the Party? | The ITL has not identified any discrepancies with transactions proposed by the Party during the reported period (Report R-2). (Appendix 2) |
| P1.2.4 | Has Party reported all discrepancies as required by paragraph 12 of the annex to decision 15/CMP.1? | There are no discrepancies with transactions proposed by the Party during the reported period |
| 15/CMP.1 annex I.E paragraph 13 Reversal of storage notifications | | |
| P1.2.5 | Has the transaction log issued reversal of storage notifications to the Party's national registry? | The ITL has not identified any reversals of storage notifications to the Party's national registry during the reported period (see [RRITL], Report R-3). (Appendix 3) |
| P1.2.6 | Has Party reported all notifications directing it to replace ICERs in accordance with paragraph 49 of the annex to decision 5/CMP.1? | Party has not reported any notifications directing it to replace ICERs in accordance with paragraph 49 of the annex to decision 5/CMP.1 |
| 15/CMP.1 annex I.E paragraph 14 Non-certification notifications | | |
| P1.2.7 | Has the transaction log issued non-certification notifications to the Party's national registry? | The ITL has not issued non-certification notifications to the Party's national registry during the reported period (see [RRITL], Report R-3). |
| P1.2.8 | Has the Party reported all notifications to replace ICERs in accordance with paragraph 50 of the annex to decision 5/CMP.1? | There are no notifications to replace ICERs in accordance with paragraph 50 of the annex to decision 5/CMP.1 |
| 15/CMP.1 annex I.E paragraph 15 Non-replacement | | |
| P1.2.9 | Has the transaction log a record of non-replacement for this Party? | The ITL has not identified non-replacement notifications to the Party's national registry during the reported period (see [RRITL], Report R-3). |
| P1.2.10 | Has Party reported all non-replacements in accordance with paragraph 56 of the annex to decision 5/CMP.1? | There are no any non-replacements in accordance with paragraph 56 of the annex to decision 5/CMP.1 |

| RefNr | Requirement | Information |
|--|--|---|
| 15/CMP.1 annex I.E paragraph 16 Inconsistencies from discrepant transactions | | |
| P1.2.11 | Has the transaction log identified discrepant transactions proposed by the Party that were not terminated or cancelled? | The ITL identified discrepant transactions proposed by the Party that were not terminated or cancelled [RRITL], Report R-2 |
| P1.2.12 | Has Party reported on units that are not valid for use towards compliance with commitments under Article 3, paragraph 1, pursuant to paragraph 43 (b) of the annex to decision 13/CMP.1? | The [RRITL] Report R-5 list includes all the 2009 (see SEF) converted ERUs No units that are not valid for use towards compliance with commitments under Article 3, paragraph 1, pursuant to paragraph 43 (b) of the annex to decision 13/CMP.1 |
| 15/CMP.1 annex I.E paragraph 17 Actions and changes to address discrepancies | | |
| P1.2.13 | Has Party reported actions taken to correct any problem that caused a discrepancy to occur, any changes to the national registry to prevent a discrepancy from reoccurring, or the resolution of any previously identified questions of implementation pertaining to transactions? | No any actions to correct any problem that caused a discrepancy to occur, any changes to the national registry to prevent a discrepancy from reoccurring, or the resolution of any previously identified questions of implementation pertaining to transactions |
| 15/CMP.1 annex I.E paragraph 18 CPR Calculation | | |
| P1.2.14 | Has Party reported the calculation of its commitment period reserve? | Calculation of commitment period reserve (CPR calculation) The commitment period reserve for Ukraine is calculated in accordance with decision 11/CMP.1 as 100% of the proposed assigned amount units or 100% of its most recently reviewed inventory times five . Ukraine has interpreted the “most recently reviewed inventory” the inventory for the year 2008 (submission 2010). That means $427799119 \times 5 = 2138995595$ tonnes CO ₂ eq Real reserve on 30.12.2009 equal 4544475399 tonnes CO ₂ eq So calculated CPR lover than real reserve. Information is avaluable on NR web site http://www.carbonunitsregistry.gov.ua/en/publication/content/686.htm (English language) http://www.carbonunitsregistry.gov.ua/ua/264.htm (Ukrainian Language) |

14 INFORMATION ON CHANGES IN NATIONAL REGISTRY

During 2009 The Ukrainian Registry has not changes

Ref Numbers in this table made according the SIAR Part 1 Assessment Report Template v4.3

| Ref Numbers | Reporting Item | Contents |
|-------------|--|--|
| P1.3.1 | 15/CMP.1 annex II.E paragraph 32.(a) Change of name or contact | <p>Main RSA UA1 Name (First/Last): Evgenij Pantasenko Position: Head of the Registry Department Postal address: 35 Urytskogo St., Kiev 03035, Ukraine Phone number: +38 044 594 91 13 Fax number: +38 044 594 91 15 E-mail address: epantasenko@gmail.com</p> <p>Alternative RSA UA2 Name (First/Last): Nataliya Nikulicheva Position: Head of the International Cooperation Department Postal address: 35 Urytskogo St., Kiev 03035, Ukraine Phone number: +38 044 594 91 13 Fax number: +38 044 594 91 15 E-mail address: nnikulicheva@gmail.com</p> <p>No change occurred during the reported period.</p> |
| P1.3.2 | 15/CMP.1 annex II.E paragraph 32.(b) Change of cooperation arrangement | <p>Ukrainian NR is not a part of any consolidated registry system. No change occurred during the reported period</p> |
| P1.3.3 | 15/CMP.1 annex II.E paragraph 32.(c) Change to database or the capacity of national registry | <p>Ukrainian NR system is based on CR software. CR software uses and Oracle 9i relation database dedicated data model for supporting the registry operations. No change occurred during the reported period</p> |
| P1.3.4 | 15/CMP.1 annex II.E paragraph 32.(d) Change of conformance to technical standards | <p>The software CR registry system was developed for the EU ETS by the EC. The scheme requires the Member States' registries to be compliant with the UN Data Exchange Standards (DES) specified for the Kyoto Protocol. CR contains the functionality to perform issuance, conversion, external transfer, (voluntary) cancellation, retirement and reconciliation processes using XML messages and web services as specified in the UN DES document. In addition, it also contains 24-hour clean-up, transaction status enquiry, time synchronization, data logging requirements (including transaction log, reconciliation log, internal audit log and message archive) and the different identifier formats specified in the UN DES documents. No change occurred during the reported period</p> |

| Ref Numbers | Reporting Item | Contents |
|-------------|--|---|
| P1.3.5 | 15/CMP.1 annex II.E paragraph 32.(e) Change of discrepancies procedures | <ul style="list-style-type: none"> • Communication between the NR and the ITL is via web services using XML messages as specified in the UN DES document. These web services, XML message format and the processing sequence are as specified in the UN DES document. • As far as possible, the NR validates data entries against the list of checks that are performed by the ITL (as documented in Annex E of the UN DES annexes document) before forwarding the request to the ITL for processing. This will help to minimize the sending of incorrect information to the ITL for approval. This also holds for any incoming transaction or message relating to a transaction. The registry validates all communication using checks described in the DES and the EU ETS regulation before processing the request further. If any check fails, the process is terminated and rolled back according to the requirements. • All units that are involved in a transaction shall be earmarked internally within the registry, thereby preventing the units from being involved in another transaction until a response has been received from the ITL and the current transaction completed. • The web service that sends the message to the ITL for processing will ensure that an acknowledgement message is received from the ITL before completing the submission of the message. Where no acknowledgement message is received following a number of retries, the web service will terminate the submission and roll back any changes made to the unit blocks that were involved. • Where a 24-hour clean-up message is received from the ITL, the web service will roll back any pending transactions and the units that were involved, thereby preventing any discrepancies in the unit blocks between the registry and the ITL. <ul style="list-style-type: none"> • Finally, if any unforeseen failure were to occur, the data discrepancies between the registry and the ITL can be corrected via a manual intervention function within the registry. Following this, reconciliation will be performed to validate that the data is synchronized between registry and the ITL <p>No change occurred during the reported period</p> |
| P1.3.6 | 15/CMP.1 annex II.E paragraph 32.(f) Change of security | No change occurred during the reported period |
| P1.3.7 | 15/CMP.1 annex II.E paragraph 32.(g) Change of list of publicly | In 2009 Year only 2 reports were available on web site http://www.carbonunitsregistry.gov.ua/en/publication/cont |

| Ref Numbers | Reporting Item | Contents |
|-------------|---|---|
| | available information | ent/700.htm (English Language) On web were absent the lists of publicly available information (on Ukrainian and English parts) No change occurred during the reporting period. Remark Only in 06/2010 on web page were realized lists of publicly available information according the requirements |
| P1.3.8 | 15/CMP.1 annex II.E paragraph 32.(h) Change of Internet address | https://www.carbonunitsregistry.gov.ua http://www.carbonunitsregistry.gov.ua/en/ (English Language) http://www.carbonunitsregistry.gov.ua/ua/ (Ukrainian Language) No change occurred during the reporting period |
| P1.3.9 | 15/CMP.1 annex II.E paragraph 32.(i) Change of data integrity measure | No change occurred during the reporting period |
| P1.3.10 | 15/CMP.1 annex II.E paragraph 32.(j) Change of test results | No change occurred during the reporting period |

15 INFORMATION ON MINIMIZATION OF ADVERSE IMPACT IN ACCORDANCE WITH ARTICLE 3, PARAGRAPH 14⁵

Ukraine as an Annex I Party to the UNFCCC strives to fulfill its obligations under the Kyoto Protocol and makes efforts to participate in the international process of adverse social, environmental and economic impacts minimization in developing countries. The table 15.1 summarizes implementation of selected actions, identified in paragraph 24 of the Annex to Decision 15/CMP.1, in 2009.

Table 15.1 Activity of Ukraine on minimization of adverse impact in accordance with Article 3, paragraph 14.

| Action | Implementation by the Party |
|---|---|
| The progressive reduction or phasing out of market imperfections, fiscal incentives, tax and duty exemptions and subsidies in all greenhouse-gas-emitting sectors, taking into account the need for energy price reforms to reflect market prices and externalities. | Ukraine does not take part in any such activity. |
| Removing subsidies associated with the use of environmentally unsound and unsafe technologies. | No practice of issuing loans for the implementation of unacceptable and unsafe technologies has been identified in Ukraine. |
| Cooperating in the technological development of non-energy uses of fossil fuels and supporting developing country Parties to this end. | No such kinds of activity have been identified in Ukraine. |
| Cooperating in the development, diffusion, and transfer of less-greenhouse-gas-emitting advanced fossil-fuel technologies, and/or technologies, relating to fossil fuels, that capture and store greenhouse gases, and encouraging their wider use; and facilitating the participation of the least developed countries and other non-Annex I Parties in this effort. | Ukraine does not take part in any such activity. |
| Strengthening the capacity of developing country Parties identified in Article 4, paragraphs 8 and 9, of the Convention for improving efficiency in upstream and downstream activities relating to fossil fuels, taking into consideration the need to improve the environmental efficiency of these activities. | Ukraine does not take part in any such activity. |
| Assisting developing country Parties which are highly dependent on the export and consumption of fossil fuels in diversifying their economies. | Ukraine does not take part in any such activity. |

⁵ Chapter 15 is prepared by M. Bereznytska, climate change expert, Environmental (Green) Investments Fund and approved by N. Ivanenko, National Inventory Focal Point, National Environmental Investment Agency of Ukraine

ANNEX 6 ADDITIONAL INFORMATION TO BE CONSIDERED AS PART OF THE ANNUAL INVENTORY SUBMISSION AND THE SUPPLEMENTARY INFORMATION REQUIRED UNDER ARTICLE 7, PARAGRAPH 1, OF THE KYOTO PROTOCOL OR OTHER USEFUL REFERENCE INFORMATION⁶

Public Information provided pursuant to part E of annex to 13/CMP.1 paragraph 44-48

This section provides information on the completeness of public information provided pursuant to part E of the annex to 13/CMP.1, paragraphs 44 to 48 inclusive.

Paragraph 44 of the annex to decision 13/CMP.1 requires the national registry to make non-confidential information publicly available.

Ref Numbers in this table made according the SIAR Part 1 Assessment Report Template v4.3.doc

| Ref Nr | Requirement | Information |
|----------|---|--|
| P1.4.1 | 13/CMP.1 Annex paragraph 45 Account information provided? | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| P1.4.1.1 | 13/CMP.1 Annex paragraph 45 (a) Account name: the holder of the account | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| P1.4.1.2 | 13/CMP.1 Annex paragraph 45 (b) Account type: the type of account (holding, cancellation or retirement) | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| P1.4.1.3 | 13/CMP.1 Annex paragraph 45 (c) Commitment period: the commitment period with which a cancellation or retirement account is associated | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| P1.4.1.4 | 13/CMP.1 Annex paragraph 45 (d) Representative identifier: the representative of the account holder, using the Party identifier (the two-letter country code defined by ISO 3166) and a number unique to that representative within the Party's registry | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |

⁶ Annex 6 is prepared by national register administrators A. Shmurak, Y. Mikheev, National Environmental Investment Agency of Ukraine and technical national register administrator A. Dogadin, JSK Softline

| Ref Nr | Requirement | Information |
|---------------|--|---|
| P1.4.1.5 | 13/CMP.1 Annex paragraph 45 (e) Representative name and contact information; the full name, mailing address, telephone number, facsimile number and email address of the representative of the account holder | The Party provides reference to this publicly available information in http://www.carbonunitsregistry.gov.ua/en/publication/content/691.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/690.htm (Ukrainian language) |
| P1.4.2 | 13/CMP.1 Annex paragraph 46 Article 6 project information provided? | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| P1.4.2.1 | 13/CMP.1 Annex paragraph 46 (a) Project name: a unique name for the project | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| P1.4.2.2 | 13/CMP.1 Annex paragraph 46 (b) Project location; the Party and town or region in which the project is located | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| P1.4.2.3 | 13/CMP.1 Annex paragraph 46 (c) Years of ERU issuance; the years in which ERU's have been issued as a result of the Article 6 project | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| P1.4.2.4 | 13/CMP.1 Annex paragraph 46 (d) Reports; downloadable electronic version of all publicly available documentation relating to the project, including proposals, monitoring, verification and issuance of ERU's, where relevant, subject to the confidentiality provisions in decision 9/CMP.1. | JI projects in Ukraine (Information on paragraph 46 of the annex to the decision 13/CMP. 1); http://www.carbonunitsregistry.gov.ua/en/publication/content/680.htm , (English Language) http://www.carbonunitsregistry.gov.ua/ua/261.htm (Ukrainian language) |
| P1.4.3 | 13/CMP.1 Annex paragraph 47 Holding and transaction information provided? | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.1 | 13/CMP.1 Annex paragraph 47 (a) The total quantity of ERUs, CERs, AAUs and RMUs in each account at the beginning of the year | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |

| Ref Nr | Requirement | Information |
|---------------|---|---|
| P1.4.3.2 | 13/CMP.1 Annex paragraph 47 (b) The total quantity of AAUs issued on the basis of the assigned amount pursuant to Article 3, paragraphs 7 and 8 | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.3 | 13/CMP.1 Annex paragraph 47 (c) The total quantity of ERUs issued on the basis of Article 6 projects | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.4 | 13/CMP.1 Annex paragraph 47 (d) The total quantity of ERUs, CERs, AAUs and RMUs acquired from other registries and the identity of the transferring accounts and registries | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.5 | 13/CMP.1 Annex paragraph 47 (e) The total quantity of RMUs issued on the basis of each activity under Article 3, paragraphs 3 and 4 | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.6 | 13/CMP.1 Annex paragraph 47 (f) The total quantity of ERUs, CERs, AAUs and RMUs transferred to other registries and the identity of the acquiring accounts and registries | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.7 | 13/CMP.1 Annex paragraph 47 (g) The total quantity of ERUs, CERs, AAUs and RMUs cancelled on the basis of activities under Article 3, paragraphs 3 and 4 | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.8 | 13/CMP.1 Annex paragraph 47 (h) The total quantity of ERUs, CERs, AAUs and RMUs cancelled following determination by the Compliance Committee that the Party is not in compliance with its commitment under Article 3, paragraph 1 | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |

| Ref Nr | Requirement | Information |
|-----------|---|---|
| P1.4.3.9 | 13/CMP.1 Annex paragraph 47 (i) The total quantity of other ERUs, CERs, AAUs and RMUs cancelled | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.10 | 13/CMP.1 Annex paragraph 47 (j) The total quantity of ERUs, CERs, AAUs and RMUs retired | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.11 | 13/CMP.1 Annex paragraph 47 (k) The total quantity of ERUs, CERs and AAUs carried over from the previous commitment period | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.3.12 | 13/CMP.1 Annex paragraph 47 (l) Current holdings of ERUs, CERs, AAUs and RMUs in each account | Information about unit holdings and transactions (Information on paragraph 47 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/695.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/694.htm (Ukrainian Language) |
| P1.4.4 | 13/CMP.1 Annex paragraph 48 List of legal entities authorized by Party provided? ⁷ | Information about Entities Authorized to Hold Units (Information on paragraph 48 of the annex to the decision 13/CMP.1); http://www.carbonunitsregistry.gov.ua/en/publication/content/681.htm (English Language) http://www.carbonunitsregistry.gov.ua/ua/publication/content/699.htm (Ukrainian language&Russian Language) |

The previous Annual Review recommendations and Ukrainian NR response actions to ERT recommendation

Ref Numbers in this table made according the SIAR Part 1 Assessment Report Template v4.3

| Ref Nr | Requirement | Information |
|--------|--|--|
| P1.5.1 | As per FCCC/ARR/2008/UKR, section .VIII. Other issues., paragraph 1 on .Changes to the national registry.: For future submissions it is recommended that this level of reporting be included in the original submission rather than as separate documents. | No changes were made in NR implementation, operation, maintenance and allocation of human resources for the functioning of the national registry during the reporting period |
| P1.5.2 | As per FCCC/ARR/2008/UKR, section .VIII. Other issues., paragraph 2 on | No changes were made in NR implementation, operation, maintenance and allocation of human |

⁷ For the purpose of the annual review, the list of accounts assigned to legal entities within the national registry is sufficient

| | | |
|--------|--|---|
| | .Changes to the national registry.: The ERT recommends that Ukraine include information on the changes in implementation, operation, maintenance and allocation of human resources for the functioning of the national registry in its next annual submission. | resources for the functioning of the national registry during the reporting period |
| P1.5.3 | As per FCCC/ARR/2008/UKR, section .VIII. Other issues., paragraph 3 on .Commitment period reserve.:The ERT recommends that Ukraine include information on its commitment period reserve in its next annual submission. | This information is represented in revised Chapter 12 and CPR equals to 2 138 995 595 tonnes CO2 eq. This information is available on NR web site http://www.carbonunitsregistry.gov.ua/en/publication/content/686.htm (English language) http://www.carbonunitsregistry.gov.ua/ua/264.htm (Ukrainian Language) |

APPENDIXES

Requirements

According to the “**Annotated outline of the National Inventory Report including reporting elements under the Kyoto Protocol**” the Annex 6 to NIR “*Additional information to be considered as part of the annual inventory submission and the supplementary information required under Article 7, paragraph 1, of the Kyoto Protocol or other useful reference information*” must include next parts

A.6.1: Annual inventory submission

A.6.2: Supplementary information under Article 7.1

Parties may wish to explore using this annex to provide more detailed information on any of the elements of the supplementary information required under Article 7, paragraph 1, of the Kyoto Protocol. This information could comprise:

1. KP-LULUCF (accounting table, CRF and/or NIR tables)
2. Standard electronic format (SEF) tables
3. More detailed information (including diagrams etc.) on the national system and changes in the national system
4. More detailed information on the national registry and the accounting of Kyoto units, including
 - a. changes in the national registry
 - b. reports required by decision 15/CMP.1, namely list of discrepancies (Annex, paragraph 12), notifications from the Executive Board of the CDM on reversal of storage (Annex, paragraph 13) and on failure of certification (Annex, paragraph 14), record on non-replacement (Annex, paragraph 15) and invalid actions undertaken to correct any problems that caused a discrepancy, any changes to the national registry to prevent a discrepancy from reoccurring, and the resolution of any previously identified questions of implementation pertaining to transactions (Annex, paragraph 17)
 - c. publicly available information (section II.E, paragraph 44 of the annex to decision 13/CMP.1)
5. More detailed information on adverse impacts under Article 3, paragraph 14, of the Kyoto Protocol, including changes in information since it was previously submitted.

According to the **SIAR Reporting Requirements and Guidance for Registries v4.3.doc** SIAR must have next appendixes

Appendix 1 – Report R-1: Standard Electronic Format (SEF)

Appendix 2 – Report R-2: List of Discrepant Transactions

Appendix 3 – Report R-3: List of CDM Notifications

Appendix 4 – Report R-4: List of Non-replacements

Appendix 5 – Report R-5: List of Invalid Units

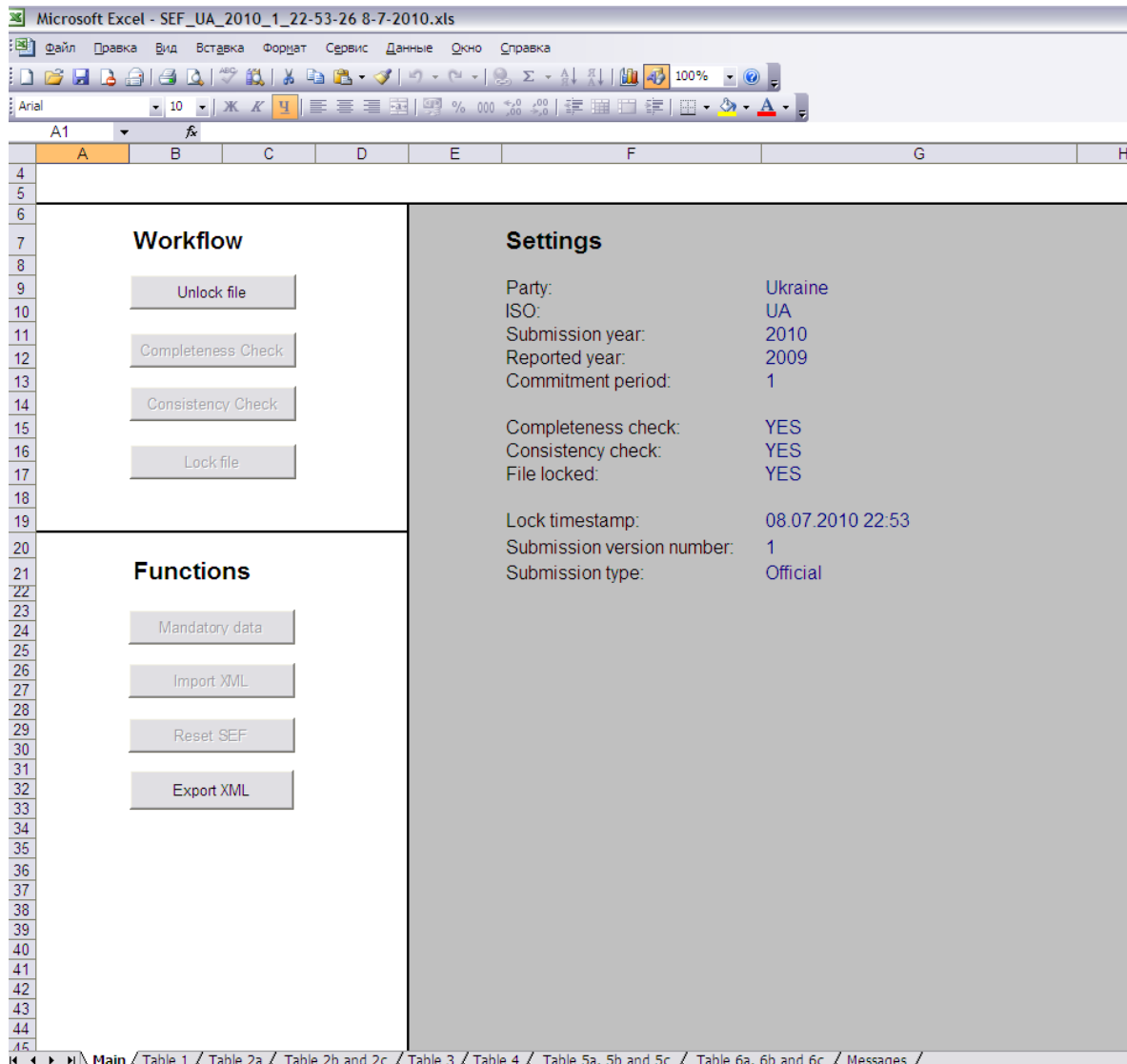
Appendix 6 – Further Detailed Information about Reporting Changes to National Registry

Appendix 7 – Readiness Documentation Reporting Guidelines

We use last variant for our SIAR appendixes

Appendix 1 - Report R-1: Standard Electronic Format (SEF)

Standard Electronic Format SEF Main table



Standard Electronic Format SEF Table 1. Total quantities of Kyoto Protocol units by account type at beginning of reported year (2009)

| Account type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
|---|-------------------|-----------|-----------|-----------|-----------|-----------|
| Party holding accounts | 4581864904 | NO | NO | NO | NO | NO |
| Entity holding accounts | NO | NO | NO | NO | NO | NO |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation accounts | NO | NO | NO | NO | | |
| Other cancellation accounts | NO | NO | NO | NO | NO | NO |
| Retirement account | NO | NO | NO | NO | NO | NO |
| tCER replacement account for expiry | NO | NO | NO | NO | NO | |
| ICER replacement account for expiry | NO | NO | NO | NO | | |
| ICER replacement account for reversal of storage | NO | NO | NO | NO | | NO |
| ICER replacement account for non-submission of certification report | NO | NO | NO | NO | | NO |
| Total | 4581864904 | NO | NO | NO | NO | NO |

Standard Electronic Format SEF Table 2(a).Annual internal transactions , reported year (2009)

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|----|--|-------------------|---------|------|------|-------|-------|---------------------|-------------------|---------|------|-------|-------|---|
| 1 | | | | | | | | | Party | Ukraine | | | | |
| 2 | | | | | | | | | Submission year | 2010 | | | | |
| 3 | | | | | | | | | Reported year | 2009 | | | | |
| 4 | | | | | | | | | Commitment period | 1 | | | | |
| 5 | Table 2 (a). Annual internal transactions | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | Additions | | | | | | Subtractions | | | | | | |
| 8 | | Unit type | | | | | | Unit type | | | | | | |
| 9 | Transaction type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | |
| 10 | Article 6 issuance and conversion | | | | | | | | | | | | | |
| 11 | Party-verified projects | | 1986058 | | | | | 1986058 | | NO | | | | |
| 12 | Independently verified projects | | 1252264 | | | | | 1252264 | | NO | | | | |
| 13 | Article 3.3 and 3.4 issuance or cancellation | | | | | | | | | | | | | |
| 14 | 3.3 Afforestation and reforestation | | | | | | | | | | | | | |
| 15 | 3.3 Deforestation | | | NO | | | | NO | NO | NO | NO | | | |
| 16 | 3.4 Forest management | | | NO | | | | NO | NO | NO | NO | | | |
| 17 | 3.4 Cropland management | | | NO | | | | NO | NO | NO | NO | | | |
| 18 | 3.4 Grazing land management | | | NO | | | | NO | NO | NO | NO | | | |
| 19 | 3.4 Revegetation | | | NO | | | | NO | NO | NO | NO | | | |
| 20 | Article 12 afforestation and reforestation | | | | | | | | | | | | | |
| 21 | Replacement of expired tCERs | | | | | | | NO | NO | NO | NO | NO | | |
| 22 | Replacement of expired ICERs | | | | | | | NO | NO | NO | NO | | | |
| 23 | Replacement for reversal of storage | | | | | | | NO | NO | NO | NO | | NO | |
| 24 | Replacement for non-submission of certification report | | | | | | | NO | NO | NO | NO | | NO | |
| 25 | Other cancellation | | | | | | | NO | NO | NO | NO | NO | NO | |
| 26 | Sub-total | | 3238322 | NO | | | | 3238322 | NO | NO | NO | NO | NO | |
| 27 | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | |
| 30 | | Retirement | | | | | | | | | | | | |
| 31 | | Unit type | | | | | | | | | | | | |
| 32 | Transaction type | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | | | | | | | |
| 33 | Retirement | NO | NO | NO | NO | NO | NO | | | | | | | |
| 34 | | | | | | | | | | | | | | |

Standard Electronic Format SEF Table 2(a).Annual external transactions and Table 2(c).Total annual transactions, reported year (2009)

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
|----|---|--|---|------|------|-------|-------|---------------------|--|---------|------|-------|-------|---|
| 1 | | | | | | | | | Party | Ukraine | | | | |
| 2 | | | | | | | | | Submission year | 2010 | | | | |
| 3 | | | | | | | | | Reported year | 2009 | | | | |
| 4 | | | | | | | | | Commitment period | 1 | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | <input type="button" value="Add registry"/> | <input type="button" value="Delete registry"/> | <input type="button" value="No external transactions"/> | | | | | | Table 2 (b). Annual external transactions | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | Additions | | | | | | Subtractions | | | | | | |
| 9 | | Unit type | | | | | | Unit type | | | | | | |
| 10 | | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | |
| 11 | Transfers and acquisitions | | | | | | | | | | | | | |
| 12 | CH | NO | NO | NO | NO | NO | NO | 713458 | 2361863 | NO | NO | NO | NO | |
| 13 | DE | NO | NO | NO | NO | NO | NO | NO | 52874 | NO | NO | NO | NO | |
| 14 | ES | NO | NO | NO | NO | NO | NO | 3236254 | 130470 | NO | NO | NO | NO | |
| 15 | GB | NO | NO | NO | NO | NO | NO | 105971 | 43006 | NO | NO | NO | NO | |
| 16 | JP | NO | NO | NO | NO | NO | NO | 29600000 | NO | NO | NO | NO | NO | |
| 17 | NL | NO | NO | NO | NO | NO | NO | 500000 | 650109 | NO | NO | NO | NO | |
| 18 | Sub-total | NO | NO | NO | NO | NO | NO | 34155683 | 3238322 | NO | NO | NO | NO | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | Additional information | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | Independently verified ERUs | | | | | | | | 1252264 | | | | | |
| 24 | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | |
| 27 | Table 2 (c). Total annual transactions | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | |
| 29 | Total (Sum of tables 2a and 2b) | NO | 3238322 | NO | NO | NO | NO | 37394005 | 3238322 | NO | NO | NO | NO | |
| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | |

Standard Electronic Format SEF Table 3. Expiry, cancellation and replacement. reported year (2009)

| A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|-------------------|---|---------|---|---|
| 1 | | | | | | Party | | Ukraine | | |
| 2 | | | | | | Submission year | | 2010 | | |
| 3 | | | | | | Reported year | | 2009 | | |
| 4 | | | | | | Commitment period | | 1 | | |

Table 3. Expiry, cancellation and replacement

| Transaction or event type | Expiry, cancellation and requirement to replace | | Replacement | | | | | | |
|---|---|-------|-------------|------|------|------|-------|-------|----|
| | Unit type | | Unit type | | | | | | |
| | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | |
| Temporary CERs (tCERs) | | | | | | | | | |
| Expired in retirement and replacement accounts | NO | | | | | | | | |
| Replacement of expired tCERs | | | NO | NO | NO | NO | NO | | |
| Expired in holding accounts | NO | | | | | | | | |
| Cancellation of tCERs expired in holding accounts | NO | | | | | | | | |
| Long-term CERs (ICERs) | | | | | | | | | |
| Expired in retirement and replacement accounts | | NO | | | | | | | |
| Replacement of expired ICERs | | | NO | NO | NO | NO | | | |
| Expired in holding accounts | | NO | | | | | | | |
| Cancellation of ICERs expired in holding accounts | | NO | | | | | | | |
| Subject to replacement for reversal of storage | | NO | | | | | | | |
| Replacement for reversal of storage | | | NO | NO | NO | NO | | NO | |
| Subject to replacement for non-submission of certification report | | NO | | | | | | | |
| Replacement for non-submission of certification report | | | NO | NO | NO | NO | | NO | |
| Total | | | NO | NO | NO | NO | NO | NO | NO |

Standard Electronic Format SEF Table 4. Total quantities of Kyoto Protocol units by account type at end of reported year (2009)

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|-------------------|---|---------|
| 1 | | | | | | Party | | Ukraine |
| 2 | | | | | | Submission year | | 2010 |
| 3 | | | | | | Reported year | | 2009 |
| 4 | | | | | | Commitment period | | 1 |

Table 4. Total quantities of Kyoto Protocol units by account type at end of reported year

| Account type | Unit type | | | | | |
|---|------------|------|------|------|-------|-------|
| | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| Party holding accounts | 4544470899 | NO | NO | NO | NO | NO |
| Entity holding accounts | NO | NO | NO | NO | NO | NO |
| Article 3.3/3.4 net source cancellation accounts | NO | NO | NO | NO | | |
| Non-compliance cancellation accounts | NO | NO | NO | NO | | |
| Other cancellation accounts | NO | NO | NO | NO | NO | NO |
| Retirement account | NO | NO | NO | NO | NO | NO |
| tCER replacement account for expiry | NO | NO | NO | NO | NO | |
| ICER replacement account for expiry | NO | NO | NO | NO | | |
| ICER replacement account for reversal of storage | NO | NO | NO | NO | | NO |
| ICER replacement account for non-submission of certification report | NO | NO | NO | NO | | NO |
| Total | 4544470899 | NO | NO | NO | NO | NO |

Standard Electronic Format SEF Table 5(a). Summary information on additions and substructions reported year (2009)

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
|--|--------------------------------------|------------|---------|------|------|-------|-------|--------------|---------|------|------|-------------------|---------|---|---|---|---|---|---|
| | | | | | | | | | | | | Party | Ukraine | | | | | | |
| | | | | | | | | | | | | Submission year | 2010 | | | | | | |
| | | | | | | | | | | | | Reported year | 2009 | | | | | | |
| | | | | | | | | | | | | Commitment period | 1 | | | | | | |
| Table 5 (a). Summary information on additions and substructions | | | | | | | | | | | | | | | | | | | |
| | | Additions | | | | | | Subtractions | | | | | | | | | | | |
| | | Unit type | | | | | | Unit type | | | | | | | | | | | |
| | | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | | | | | | |
| 9 | Starting values | | | | | | | | | | | | | | | | | | |
| 10 | Issuance pursuant to Article 3.7 and | 4604184663 | | | | | | | | | | | | | | | | | |
| 11 | Non-compliance cancellation | | | | | | | | | | | | | | | | | | |
| 12 | Carry-over | NO | NO | | NO | | | NO | NO | NO | NO | | | | | | | | |
| 13 | Sub-total | 4604184663 | NO | | NO | | | NO | NO | NO | NO | | | | | | | | |
| Annual transactions | | | | | | | | | | | | | | | | | | | |
| 15 | Year 0 (2007) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 16 | Year 1 (2008) | NO | NO | NO | NO | NO | NO | 22319759 | NO | NO | NO | NO | NO | | | | | | |
| 17 | Year 2 (2009) | NO | 3238322 | NO | NO | NO | NO | 37394005 | 3238322 | NO | NO | NO | NO | | | | | | |
| 18 | Year 3 (2010) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 19 | Year 4 (2011) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 20 | Year 5 (2012) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 21 | Year 6 (2013) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 22 | Year 7 (2014) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 23 | Year 8 (2015) | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | | | | | | |
| 24 | Sub-total | NO | 3238322 | NO | NO | NO | NO | 59713764 | 3238322 | NO | NO | NO | NO | | | | | | |
| 25 | Total | 4604184663 | 3238322 | NO | NO | NO | NO | 59713764 | 3238322 | NO | NO | NO | NO | | | | | | |

| Table 5 (b). Summary information on replacement | | | | | | | | | |
|---|---------------------|-----------------------------|-------------|-----------|------|------|------|-------|-------|
| | | Requirement for replacement | Replacement | | | | | | |
| | | Unit type | | Unit type | | | | | |
| | | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| 34 | Previous CPs | | | NO | NO | NO | NO | NO | NO |
| 35 | Year 1 (2008) | NO | NO | NO | NO | NO | NO | NO | NO |
| 36 | Year 2 (2009) | NO | NO | NO | NO | NO | NO | NO | NO |
| 37 | Year 3 (2010) | NO | NO | NO | NO | NO | NO | NO | NO |
| 38 | Year 4 (2011) | NO | NO | NO | NO | NO | NO | NO | NO |
| 39 | Year 5 (2012) | NO | NO | NO | NO | NO | NO | NO | NO |
| 40 | Year 6 (2013) | NO | NO | NO | NO | NO | NO | NO | NO |
| 41 | Year 7 (2014) | NO | NO | NO | NO | NO | NO | NO | NO |
| 42 | Year 8 (2015) | NO | NO | NO | NO | NO | NO | NO | NO |
| 43 | Total | NO | NO | NO | NO | NO | NO | NO | NO |

| Table 5 (c). Summary information on retirement | | | | | | | |
|--|--|------------|------|------|------|-------|-------|
| | | Retirement | | | | | |
| | | Unit type | | | | | |
| Year | | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| Year 1 (2008) | | NO | NO | NO | NO | NO | NO |
| Year 2 (2009) | | NO | NO | NO | NO | NO | NO |
| Year 3 (2010) | | NO | NO | NO | NO | NO | NO |
| Year 4 (2011) | | NO | NO | NO | NO | NO | NO |
| Year 5 (2012) | | NO | NO | NO | NO | NO | NO |
| Year 6 (2013) | | NO | NO | NO | NO | NO | NO |
| Year 7 (2014) | | NO | NO | NO | NO | NO | NO |
| Year 8 (2015) | | NO | NO | NO | NO | NO | NO |
| Total | | NO | NO | NO | NO | NO | NO |

Standard Electronic Format SEF Table 6(a) Memo item. Corrective transaction relating to additions and substructions. reported year (2009) and Table 6(b) Memo item. Corrective transaction relating to replacement. reported year (2009) and Table 6(c) Memo item. Corrective transaction related to retirement. reported year (2009)

| A | B | C | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|---|-----------------|--------------------|---------------------------|---|---|---|---|---|---|---|-------------------|---------|---|---|---|
| | | | | | | | | | | | Party | Ukraine | | | |
| | | | | | | | | | | | Submission year | 2010 | | | |
| | | | | | | | | | | | Reported year | 2009 | | | |
| | | | | | | | | | | | Commitment period | 1 | | | |
| 6 | Add transaction | Delete transaction | No corrective transaction | | | | | | | | | | | | |

| Table 6 (a). Memo item: Corrective transactions relating to additions and substructions | | | | | | | | | | | | | |
|---|--|-----------|------|------|------|-------|-------|--------------|------|------|------|-------|-------|
| | | Additions | | | | | | Subtractions | | | | | |
| | | Unit type | | | | | | Unit type | | | | | |
| | | AAUs | ERUs | RMUs | CERs | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| 12 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|----|-----------------|--------------------|---------------------------|--|--|--|--|--|--|--|--|--|--|--|
| 14 | Add transaction | Delete transaction | No corrective transaction | | | | | | | | | | | |
|----|-----------------|--------------------|---------------------------|--|--|--|--|--|--|--|--|--|--|--|

| Table 6 (b). Memo item: Corrective transactions relating to replacement | | | | | | | | | |
|---|--|-----------------------------|-------------|-----------|------|------|------|-------|-------|
| | | Requirement for replacement | Replacement | | | | | | |
| | | Unit type | | Unit type | | | | | |
| | | tCERs | ICERs | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| 21 | | | | | | | | | |

| | | | | | | | | | |
|----|-----------------|--------------------|---------------------------|--|--|--|--|--|--|
| 23 | Add transaction | Delete transaction | No corrective transaction | | | | | | |
|----|-----------------|--------------------|---------------------------|--|--|--|--|--|--|

| Table 6 (c). Memo item: Corrective transactions relating to retirement | | | | | | | |
|--|--|------------|------|------|------|-------|-------|
| | | Retirement | | | | | |
| | | Unit type | | | | | |
| | | AAUs | ERUs | RMUs | CERs | tCERs | ICERs |
| 29 | | | | | | | |

Standard Electronic Format SEF Table Messages reported year (2009)

| | A | B | C | D | E | F | G | H | I | J |
|----|--------------------|---|---|---|---|---|---|---|---|---|
| 1 | No problems found! | | | | | | | | | |
| 2 | | | | | | | | | | |
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| 35 | | | | | | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41 | | | | | | | | | | |
| 42 | | | | | | | | | | |
| 43 | | | | | | | | | | |

Appendix 2 - Report R-2: List of Discrepant Transactions

The ITL identified no discrepancies with transactions proposed by the Party during the reported period

| | A | B | C | | D | | E | F | G | H | I | J | K | L |
|---|-------------------|-------------|---|------------------------|--|------------------------|---|--------------------|---------------------|---|-------------|---|---|---|
| 1 | DES Response Code | Discrepancy | Average number of occurrences per transaction (X 100,000) | | Average number of occurrences per transaction for all registries (X 100,000) | | Within Control Limits for the Reported Year | Transaction Number | Proposal Date Time | Transaction Type | Final State | | | |
| 2 | | | Reported Year | Prior to Reported year | Reported Year | Prior to Reported year | | | | | | | | |
| 3 | 5904 | No | 4545.45 | 0 | 116.55 | 0 | No | | | | | | | |
| 4 | | | | | | | | UA1503 | 2009-05-20 12:28:59 | External - External transfer of unit between registries | Terminated | | | |
| 5 | | | | | | | | UA1502 | 2009-05-12 12:57:25 | External - External transfer of unit between registries | Terminated | | | |
| 6 | | | | | | | | | | | | | | |

Appendix 3 - Report R-3: List of CDM Notifications

No CDM notifications were received by the Registry during the reporting period

| 1 | Target Number of units | Number of units used to fulfill the notification | | | | Number of units outstanding to fulfill the notification | |
|---|------------------------|--|-------------|------------|--------------------|---|------------------|
| | | Cancellation | Replacement | Carry-Over | Expiry Date Change | At target date | Post target date |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

Appendix 4 - Report R-4: List of Non-replacements

No non-replacements occurred in 2009.

| 1 | During the reported year | | | | | | Prior to the reported year | | | | |
|----|-----------------------------|------------|-------------------------------|--|---|-----------------------|----------------------------|-------------------------------|--|---|-------|
| | Number of occurrences | Percentage | Percentage for all registries | Number of occurrences per 1000 transactions (X 1000) | Average number of occurrences per 1000 transactions for all registries (X 1000) | Number of occurrences | Percentage | Percentage for all registries | Number of occurrences per 1000 transactions (X 1000) | Average number of occurrences per 1000 transactions for all registries (X 1000) | |
| 2 | | | | | | | | | | | |
| 3 | Consistent reconciliation | 355 | 90.79% | 86.5% | 8068.2 | 63.2 | 62 | 92.53% | 89.79% | 10333.3 | 95.2 |
| 4 | Inconsistent reconciliation | 0 | 0% | 1.26% | 0.0 | 0.9 | 0 | 0% | 0.86% | 0.0 | 0.9 |
| 5 | With ITL | 0 | 0% | 0.92% | 0.0 | 0.7 | 0 | 0% | 0.71% | 0.0 | 0.8 |
| 6 | With STL | 0 | 0% | 0.34% | 0.0 | 0.3 | 0 | 0% | 0.15% | 0.0 | 0.2 |
| 7 | Other | 36 | 9.2% | 12.22% | 818.2 | 8.9 | 5 | 7.46% | 9.33% | 833.3 | 9.9 |
| 8 | Total | 391 | 100% | 100% | 8886.4 | 73.1 | 67 | 100% | 100% | 11166.7 | 106.0 |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |

Appendix 5 - Report R-5: List of Invalid Units

No invalid units to list for the reporting period .

Appendix 6 - Further Detailed Information about Reporting Changes to National Registry

During 2009 the responsibility of work of national registry was transferred from Ministry of Environmental Protection of Ukraine to National Environmental Investment Agency of Ukraine

Appendix 7 - Registry Readiness Documentation

Registry Readiness Documentation has been submitted to the ITL during the Go-Live process . Files containing confidential information have been designated and are not meant to be in general use for public.

Appendix 8 - Registry testing plan and test cases

Relevant testing documents have been submitted to the ITL during the Go-Live process.

REFERENCES

Requirement documents

1. Data Exchange Standards for Registry Systems under the Kyoto Protocol: Technical Specifications (Version 1.1.2)
 - https://quickplace.unfccc.int/QuickPlace/itl-rsa/Main.nsf/h_07D5A66A46268CECC12571FE00441FAA/1F0100D5A529F3D8C12575FB00524116/?OpenDocument
2. • Decisions 13/CMP.1 on the modalities for the accounting of assigned amounts under Article 7, paragraph 4, of the Kyoto Protocol
 - Document FCCC/KP/CMP/2005/8/Add.2
 - <http://unfccc.int/resource/docs/2005/cmp1/eng/08a02.pdf>
3. • Annotated outline of the National Inventory Report including reporting elements under the Kyoto Protocol
 - http://unfccc.int/files/national_reports/annex_i_ghg_inventories/reporting_requirements/application/pdf/annotated_nir_outline.pdf
4. • Standard Independent Assessment Report Reporting Requirements and Guidance for Registries
 - SIAR Reporting Requirements and Guidance for Registries v2.10.pdf
 - <http://unfccc.int/>
5. SIAR Reporting Requirements and Guidance for Registries v4.3.doc
6. UNFCCC. Standard Independent Assessment Report, Parts I and II. Unpublished document.
7. • Standard Electronic Format (SEF) Technical Specification v1.4
 - https://quickplace.unfccc.int/QuickPlace/itl-rsa/Main.nsf/h_BA5EDCDF5FB9A20AC1257498002A3C21/5388585cc87b433cc1257498002a7358/?OpenDocument
8. SIAR_Publicly_Available_Information_Guidance_v4.3.doc
9. SIAR Part 1 Assessment Report Template v4.3.doc

Ukraine Submission documents

10. http://unfccc.int/files/national_reports/annex_i_ghg_inventories/national_inventories_submissions/application/zip/ukr-2010-sef-9jul.zip

Assesments documents

11. Report of the individual review of the annual submission of Ukraine submitted in 2009*
FCCC/ARR/2009/UKR 5 February 2010
12. SIAR_Reports_2009_UA_v1.1.xls (Jean-Francois Halleux)