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**GREENHOUSE GAS EMISSIONS  
INVENTORY OF SPAIN  
1990-2007**

**COMMUNICATION TO THE SECRETARY OF THE UNITED NATIONS  
FRAMEWORK CONVENTION ON CLIMATE CHANGE**

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**APPENDIX 9:  
INFORMATION RELATED TO NATIONAL REGISTRY  
AND ACCOUNTING OF KYOTO PROTOCOL UNITS**

**May 2009**

*Foreword:* this document is a courtesy translation into English of the Spanish version officially submitted the 8<sup>th</sup> of May 2009. This translation aims to facilitate the work of the Expert Review Team under the review process pursuant to Article 8 of the Kyoto Protocol.

## **9. Appendix 9: Information related to National Registry and accounting of Kyoto Protocol units**

### **9.1. Introduction**

This document includes supplementary information to that reported within the National Inventory Report (NIR) titled “Inventario de emisiones de gases de efecto invernadero de España años 1990-2007. Comunicación a la Secretaría del Convenio Marco sobre Cambio Climático. Marzo de 2009”, officially submitted by Spain the 14<sup>th</sup> of April 2009 through the “UNFCCC submission portal” and also via postal mail.

This supplementary information is reported in compliance with Decision 15/CMP.1 Annex I (information required under Article 7 of the Kyoto Protocol) with regards to information related to National Registry and accounting of Kyoto Protocol units.

The information herein presented follows the common reporting structure proposed under the Registry System Administrators Forum (RSA Forum) and provided to the RSA through the documents “SIAR Reporting requirements for registries v2.7” and “SIAR Reporting guidance for registries v2.7”, that have been used as guidance. According to this guidance, it is structured in four main blocks as follows that are:

- Information on accounting of the Kyoto Protocol units (section 9.2)
- Information on changes to National Registry (section 9.3)
- Information on previous review recommendations (section 9.4)
- Publicly accessible information (section 9.5)

All this information is reported as Appendix 9, since it is an integral part of the National Inventory Report submitted by Spain in 2009.

In this document references are made to the Standard Electronic Format for reporting Kyoto Protocol units (SEF). However, the SEF tables are not built in the document, as they have already been submitted as a separate report, officially submitted by Spain the 27<sup>th</sup> of April 2009 through the “UNFCCC submission portal” under the “Submission type: SEF”.

### **9.2. Accounting information on KP units**

#### *9.2.1. Standard electronic format (SEF) (due under: 15/CMP.1 Annex I.E para 11)*

The standard electronic format SEF has been officially submitted by Spain the 27<sup>th</sup> of April 2009 through the “UNFCCC submission portal” under the “Submission type: SEF”, with the format and content established by Decision 14/CMP.1.

The file within which the SEF has been reported has been named “SEF\_ES\_2009\_1\_16-49-48 27-4-2009.xls”. It has been generated using the tool “SEF application version 1.2” provided to the Parties through the RSA Forum and following the guidelines contained in document “SIAR Reporting requirements for registries v2.7”. The SEF corresponds with the report referred as “R-1” in those guidelines.

9.2.2. *Information on discrepant transactions (due under: 15/CMP.1 annex I.E para 12)*

Together with the present document, a report has been submitted containing a list of discrepancies (as defined in paragraph 42 of Annex to Decision 13/CMP.1) occurred in transactions proposed by the Spanish National Registry during 2008.

This list is presented in Excel format in a file named "SIAR Reports 2009-ES v1.0.xls". This Excel file also includes some other reports (R-2 to R-5) as different spreadsheets.

It has been generated following guidelines contained in document "SIAR Reporting requirements for registries v2.7" and "Reporting guidance for registries v2.7". The list of discrepant transactions corresponds with the report referred as "R-2" in those guidelines.

9.2.3. *Information on List of CDM notifications (due under: 15/CMP.1 annex I.E para 13-14)*

Together with the present document, a report has been submitted containing a list of CDM notifications issued to the Spanish National Registry during 2008.

This list is presented in Excel format in a file named "SIAR Reports 2009-ES v1.0.xls". This Excel file also includes some other reports (R-2 to R-5) as different spreadsheets.

It has been generated following guidelines contained in document "SIAR Reporting requirements for registries v2.7" and "Reporting guidance for registries v2.7". The list of CDM notifications corresponds with the report referred as "R-3" in those guidelines.

As shown in report R-3, the Spanish National Registry has received none of the following notifications from the CDM during 2008:

- Notifications of the requirement to replace ICERs because of a reversal of net GHG removals (notifications under paragraph 49 of the annex to Decision 5/CMP.1). Notifications type "reversal of storage for CDM project".
- Notifications of the requirement to replace ICERs because the certification report has not been provided (notifications under paragraph 50 of the annex to Decision 5/CMP.1). Notifications type "non-submission of certification report for CDM project".

9.2.4. *Information on non-replacements (due under: 15/CMP.1 annex I.E para 15)*

Together with the present document, a report has been submitted containing a list of the records of non-replacements of CDM notifications occurred in the Spanish National Registry during 2008.

This list is presented in Excel format in a file named "SIAR Reports 2009-ES v1.0.xls". This Excel file also includes some other reports (R-2 to R-5) as different spreadsheets.

It has been generated following guidelines contained in document "SIAR Reporting requirements for registries v2.7" and "Reporting guidance for

registries v2.7". The list of non-replacements corresponds with the report referred as "R-4" in those guidelines.

As shown in report R-4, there were no CDM notifications that were not fulfilled, so no non-replacements (as per paragraph 56 of annex to Decision 5/CMP.1) have occurred in the Spanish National Registry during 2008.

#### 9.2.5. *Information on invalid units (due under: 15/CMP.1 annex I.E para 16)*

Together with the present document, a report has been submitted containing a list of units held by the Spanish at the end of 2008 that are not valid for use towards compliance with commitments under Article 3, paragraph 1 of the Kyoto Protocol, pursuant to paragraph 43(b) of the annex to Decision 13/CMP.1

This list is presented in Excel format in a file named "SIAR Reports 2009-ES v1.0.xls". This Excel file also includes some other reports (R-2 to R-5) as different spreadsheets.

It has been generated following guidelines contained in document "SIAR Reporting requirements for registries v2.7" and "Reporting guidance for registries v2.7". The list of discrepant transactions corresponds with the report referred as "R-5" in those guidelines.

As shown in report R-5, all units held in the Spanish National Registry at the end of 2008 are valid towards compliance with commitments under article 3.1 of the Kyoto Protocol.

#### 9.2.6. *Actions and changes to address discrepancies (due under: 15/CMP.1 annex I.E para 17)*

No questions of implementation pertaining to transactions have been identified by the Spanish National Registry during 2008.

#### 9.2.7. *Commitment Period Reserve Calculation (due under: 15/CMP.1 annex I.E para 18)*

According to provisions of Decision 11/CMP.1, paragraph 6, and Decision 18/CP.7, paragraph 6, the commitment period reserve that each Party included in Annex I shall maintain in its national registry should not drop below 90% of the Party's assigned amount calculated pursuant Article 3, paragraphs 7 and 8, of the Kyoto Protocol, or 100% of five times its most recently reviewed inventory, whichever is lowest.

Given that the most recently reviewed inventory of Spain is the one submitted in 2008, including greenhouse gas emissions of 2006, then:

- 90% of the assigned amount (1.666.195.929 tonnes CO<sub>2</sub> eq) makes 1.499.576.336 tonnes of carbon dioxide equivalent
- Emissions corresponding to the most recently reviewed inventory (National Inventory Report submitted in 2008) are 433.339'36 Gg CO<sub>2</sub> eq (document FCCC/ARR/2008/ESP Table 1), that five times makes 2.166.696'8 Gg CO<sub>2</sub> eq.

The commitment period reserve is the minimum of this two above obtained values, and therefore results 1.499.576.336 tonnes of carbon dioxide equivalent.

The commitment period reserve has not change with rear to the review of the initial report of Spain (document FCCC/IRR/2007/ESP, paragraphs 113 to 115).

### 9.3. Information on changes to National Registry

#### 9.3.1. Change to name or contact (due under: 15/CMP.1 annex II.E para 32.a)

The table below includes up-to-date contact details of the persons responsible for the administration and management of the national registry:

|  |   |
|--|---|
| Public authority competent for the registry administration | General Directorate of the Spanish Climate Change Office<br>Ministry of Environment   |
| Main contact person  | Ignacio Sánchez<br>Deputy General Directorate of emissions trading and flexibility mechanisms<br>Alcalá, 92. 28009 Madrid<br>Tel: +34.91.436.15.36<br>Fax: +34.91.436.15.27<br>Email: <a href="mailto:iasanchez@mma.es">iasanchez@mma.es</a>  |
| Alternative contact person                                 | Pablo de Castro<br>Deputy General Directorate of emissions trading and flexibility mechanisms<br>Alcalá, 92. 28009 Madrid<br>Teléfono: +34.91.436.15.36<br>Fax: +34.91.436.15.27<br>Email: <a href="mailto:pcastro@mma.es">pcastro@mma.es</a> |
| Registry management  | Sociedad de Gestión de los Sistemas de Registro,<br>Compensación y Liquidación de Valores, S.A.<br>(IBERCLEAR)  |
| Contact person   | Javier Cardona<br>Responsible for RENADE<br>Tramontana, 2 Bis. 28230 Las Rozas<br>Tel.: +34.91.709.52.00<br>Fax: +34.902.32.21.73<br>Email: <a href="mailto:fj.cardona@iberclear.es">fj.cardona@iberclear.es</a>                              |

#### 9.3.2. Change to cooperation arrangement (consolidated systems) (due under: 15/CMP.1 annex II.E paragraph 32.b)

No changes have occurred with regard to the information on cooperation with other Parties (consolidated systems) in the Spanish National Registry compared to the information reported in previous submissions.

Spain does not maintain its national registry in a consolidated system with any other Party.

#### 9.3.3. Change to the database or the capacity of National Registry (due under: 15/CMP.1 annex II.E paragraph 32.c)

No changes have occurred to the database structure of the Spanish National Registry.

The following changes have occurred to its database capacity, compared to the information reported in the “Initial Report” (report to facilitate the calculation of the assigned amount pursuant to Article 3, paragraphs 7 and 8, of the Kyoto Protocol, referred to in paragraph 6 of annex to Decision 13/CMP.1), all of them oriented to increase its capacity:

- Storage hard discs of the database Server have increased their total capacity from 30Gb to 70Gb.
- The web Server has changed from a Hp Proliant DL380 G3 to a Hp Proliant DL380 G4.
- The storage cabin of the web server discs have changed from EMC Symetrix DMX100 to EMC Symetrix DMX3.

9.3.4. *Change to conformance to technical standards for data exchange (due under: 15/CMP.1 annex II.E paragraph 32.d)*

As it was advanced in the Initial Report, the Spanish National Registry has successfully completed in October 2008 the link to the International Transaction Log (ITL). Under this connection process three foreseen types of tests have been performed: preparation, connectivity and operation. All the available registry environments were restructured for full connectivity.

The CR Software release used by the Spanish National Registry for the ITL connection process was specifically implemented for that connection. This release fulfils the technical standards for data exchange (DES) between registries under the Kyoto Protocol.

The fulfilment of the requirements contained in the DES ensures the compliance with the technical standards for data exchange. The electronic formats used for transferring of information are also those established in the DES.

The conformity of the Spanish National Registry with the technical standards for data exchange has been deemed in several documents, as the following:

- “Initial Independent assessment report of the national registry of Spain”, reference “Reg\_IAR\_ES\_2007\_1”, dated 8/10/2007
- “ETS Go Live Plan. MS registry testing. Registry of Spain. Test results and evaluation report”, dated 19/06/2008.

9.3.5. *Change to procedures employed in the national registry to minimize discrepancies (due under: 15/CMP.1 annex II.E paragraph 32.e)*

No changes have occurred to procedures employed in the Spanish National Registry to minimize discrepancies, compared to the information reported in previous submissions.

Once the connection to the ITL has been successfully completed, as explained in section 9.3.4, data reconciliation takes place according to procedures prepared under the Registry System Administrators Forum (RSA Forum).

9.3.6. *Change to security measures employed in the national registry to prevent unauthorized manipulations and to prevent operator error (due under: 15/CMP.1 annex II.E paragraph 32.f)*

No changes have occurred to security measures employed in the Spanish National Registry to prevent unauthorized manipulations and to prevent operator error, compared to the information reported in previous submissions.

9.3.7. *Change to the list of publicly accessible information (due under: 15/CMP.1 annex II.E paragraph 32.g)*

No changes have occurred to the list of publicly accessible information in the Spanish National Registry, compared to the information reported in the "Initial Report".

9.3.8. *Change to Internet address (due under: 15/CMP.1 annex II.E paragraph 32.h)*

No changes have occurred to internet address of the Spanish National Registry, compared to the information reported in the "Initial Report".

9.3.9. *Change to measures ensuring the integrity of data storage and the recovery of registry services in the event of a disaster (due under: 15/CMP.1 annex II.E paragraph 32.i)*

Compared to the information reported in the "Initial Report" the following changes have occurred in the Spanish National Registry with regard to measures ensuring the integrity of data storage:

- The data safeguard protocol has changed to:
  - Backups of the two units are daily made and kept in servers in a remote location. Daily backups of the database are made at 23:00, and they are copied to the remote location every Friday.
  - Data backups in the publisher server are made every Tuesday and Friday at 03:00. A double copy is made: on the main location and another one in the backup location. The operating system is also backed up.
- The software for backup making has changed to NTBackup and the copies are made on disc (formerly Veritas Backup Exec v10.0 was used).

No significant changes have occurred in the Spanish National Registry, compared to the information reported in previous submissions, with regard to measures ensuring the recovery of registry services in the event of a disaster.

9.3.10. *Change to results of any test procedures (due under: 15/CMP.1 annex II.E paragraph 32.j)*

No significant changes have occurred in the Spanish National Registry, compared to information reported in previous submissions, with regard to results of test procedures.

#### **9.4. Information on Previous Review Recommendations**

Reference document FCCC/ARR/2008/ESP titled "Report of the individual review of the greenhouse gas inventories of Spain submitted in 2007 and 2008" includes certain recommendations by the Expert Review Team, resulting from the centralized review

pursuant to Decision 22/CMP.1 of the greenhouse gas inventories submissions of Spain in 2007 and 2008.

Those recommendations related to the national registry are listed below, together with an explanation on how they have been addressed in the present National Inventory Report of 2009.

FCCC/ARR/2008/ESP paragraph 91: "Spain has not reported on any changes to its national registry in the 2008 submission".

Coverage of this recommendation in the NIR 2009: information on changes to the national registry is contained in section 9.3 of Appendix 9 to the National Inventory Report of 2009.

FCCC/ARR/2008/ESP paragraph 92: "Spain has not reported its commitment period reserve in the 2008 submission".

Coverage of this recommendation in the 2009 NIR: commitment period reserve calculation is contained in section 9.2.7 of Appendix 9 to the National Inventory Report of 2009.

### **9.5. Publicly accessible information**

Within the European Community, information that registries must make publicly available is established in Annex XVI to Commission Regulation (EC) No 2216/2004 of 21 December 2004 for a standardised and secured system of registries pursuant to Directive 2003/87/EC of the European Parliament and of the Council and Decision No 280/2004/EC of the European Parliament and of the Council.

The internet address of the Spanish National Registry, known as RENADE <sup>1</sup>, [www.renade.es](http://www.renade.es), includes a public section for public reports. Through this section several ad-hoc reports are available showing information about the installations included within the European emissions trading scheme.

Furthermore, the Spanish National Registry internet address includes a link to the website of the Community Independent Transaction Log (CITL), <http://ec.europa.eu/environment/ets/>, where additional public information is available. It also includes a link to the website of the United Nations Framework Convention on Climate Change (UNFCCC), <http://unfccc.int>, where the standard electronic format pursuant to Decision 14/CMP.1 (SEF) of Spain is uploaded.

Through these ad-hoc reports published in the RENADE website, together with the information accessible through the CITL and UNFCCC public websites, requirements on publicly accessible information are fulfilled pursuant both under the European Community (Annex XVI to Regulation EC/2216/2004) and under the Kyoto Protocol (Annex II.E to Decision 13/CMP.1).

Next tree diagram shows the foreseen structure to reorganize and centralize the information in the public access area of RENADE website.

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<sup>1</sup> RENADE: acronym for "Registro Nacional de Derechos de Emisión"

| Access through homepage | Spread menu                              | Elements   | Items pursuant Reg 2216/2004    | Items pursuant 13/CMP.1 |
|-------------------------|--|--|---------------------------------|-------------------------|
| Public information      | Public reports                           | Balance per installation   | 4a, 4b, 4c                      | 4a, 4b, 4c              |
|                         |  | (y otros informes actualmente disponibles como Balance global sectorial) | -                               | -                       |
|                         | Fees                                     | Ministry Order on fees   | 4ter                            | -                       |
|                         | Information on accounts                  | List of accounts (with comments)   | 2a a 2c                         | 45a a 45e               |
|                         |  | Link to sheet for each account   | 3a a 3e, 4a, 4b, 4d (but no 4c) | -                       |
|                         |  | Matrix of authorization on holding of unit types                         | 8                               | 48                      |
|                         | National Allocation Plan                 | Commission Decision  | 4bis                            | -                       |
|                         |  | Text from NAP2 on % limit for surrendering                               | 9                               | -                       |
|                         | Commitment period reserve                | Screen showing the CPR   | 10                              | -                       |
|                         | Information on holdings and transactions | SEF tables (with comments)   | 7a a 7m                         | 47a a 47l               |
| JI projects             | Screen on project management             | 6a a 6e  | 46a a 46d                       |                         |