

# Primer Informe Bienal de España

Convención Marco de las Naciones Unidas sobre el  
Cambio Climático

Diciembre 2013



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE AGRICULTURA, ALIMENTACIÓN  
Y MEDIO AMBIENTE



**Ministerio de Agricultura, Alimentación y Medio Ambiente**

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**PRIMER INFORME BIENAL DE ESPAÑA**  
**CONVENCIÓN MARCO DE NACIONES UNIDAS SOBRE**  
**EL CAMBIO CLIMÁTICO**

**DICIEMBRE 2013**





## Índice de contenidos

1. PRESENTACIÓN.....	1
2. INFORMACIÓN DE EMISIONES Y TENDENCIAS DE GEI .....	2
2.1. Sistema Nacional del Inventario.....	2
3. CUANTIFICACIÓN DE LOS OBJETIVOS DE LIMITACIÓN Y REDUCCIÓN DE EMISIONES QUE CUBRAN TODOS LOS SECTORES DE LA ECONOMÍA .....	3
4. PROGRESO EN LA CONSECUCIÓN DE LOS OBJETIVOS DE LIMITACIÓN Y REDUCCIÓN DE EMISIONES QUE CUBREN TODOS LOS SECTORES DE LA ECONOMÍA .....	4
5. PROYECCIONES.....	5
6. PRESTACIÓN DE APOYO FINANCIERO, TECNOLÓGICO Y CREACIÓN DE CAPACIDAD PARA LOS PAÍSES EN DESARROLLO .....	6

## ANEXO 1. TABLAS DEL INFORME BIENAL





## 1. PRESENTACIÓN

España se complace en presentar su Primer Informe Bienal a la Convención Marco de Naciones Unidas sobre el Cambio Climático (CMNUCC).

Este documento recoge el Primer Informe Bienal de España a la CMNUCC en virtud de la Decisión 2/CP.17. Tal como se define en las directrices de presentación de informes bienales de las Partes que son países desarrollados de la Convención Marco, la información se estructura en:

- Información sobre los gases de efecto invernadero (GEI), las tendencias y el sistema nacional del Inventario.
- Cuantificación de los objetivos de limitación y reducción de emisiones que cubran todos los sectores de la economía.
- Progreso en el logro de las metas de reducción de emisiones.
- Proyección de las emisiones de GEI.
- Prestación de apoyo financiero, tecnológico y fomento de capacidades para los países en desarrollo.

La información tabular, tal y como se define en el Formato Tabular Común (CTF) de las directrices de la Convención (decisión 19/CP.18 CMNUCC), se adjunta en el [Anexo I](#). Toda la información tabular ha sido proporcionada a través del portal de notificación electrónica facilitado por la Secretaría de la CMNUCC.

## 2. INFORMACIÓN DE EMISIONES Y TENDENCIAS DE GEI

En lo relativo a los Inventarios de gases de efecto invernadero (GEI) hay que decir que la evolución de las emisiones de GEI entre 1990 y el último dato disponible, año 2011, es de un 21,0%. Se aprecian algunas variaciones interanuales en el periodo 1990-2007, pero los grandes cambios se producen a partir de 2007 con reducciones significativas de estos gases, debidas en gran parte a la reducción de emisiones del sector Energía.

El dióxido de carbono (CO<sub>2</sub>) es el gas predominante, seguido de metano (CH<sub>4</sub>) y óxido nítrico (N<sub>2</sub>O). Cuando hablamos de emisiones por sector de actividad, destaca la importancia del sector Procesado de la Energía, seguido en orden de importancia por los sectores de Agricultura, Procesos Industriales, Tratamiento y Eliminación de Residuos y finalmente, el sector de Uso de Disolventes. [Para más información, ver Capítulo 3 de la Sexta Comunicación Nacional de España y la Tabla 1 del Formato Tabular Común \(CTF\) del Anexo I.](#)

### 2.1. Sistema Nacional del Inventario

España ha establecido un Sistema Nacional para la estimación, información y archivo de las emisiones de gases de efecto invernadero que cumple con los requisitos del Protocolo de Kioto. El Sistema Nacional está sometido a una mejora constante de la información.

El Sistema Español de Inventario de Emisiones de Contaminantes a la Atmósfera realiza anualmente el Inventario Nacional de Gases de Efecto Invernadero, con el fin de evaluar y actualizar las emisiones antropogénicas por fuentes y por absorción de sumideros de los gases de efecto invernadero regulados por el Protocolo de Kioto y por la Convención Marco de Naciones Unidas sobre el Cambio Climático. [Para más información, ver Capítulo 3 de la Sexta Comunicación Nacional de España.](#)

### 3. CUANTIFICACIÓN DE LOS OBJETIVOS DE LIMITACIÓN Y REDUCCIÓN DE EMISIONES QUE CUBRAN TODOS LOS SECTORES DE LA ECONOMÍA

Para el periodo 2013-2020, España, junto con la Unión Europea, ha comunicado un objetivo cuantificado de reducción de emisiones. Es un objetivo de reducción de emisiones de gases de efecto invernadero del 20 por ciento en 2020 en comparación con los niveles de 1990. En el envío de documentación de la UE a la CMNUCC remitido el 20 de marzo de 2012 se explica dicho objetivo (FCCC/AWGLCA/2012/MISC.1).

El uso de los mecanismos de flexibilidad o/y otros mecanismos de mercado en el informe bienal se refiere a su utilización en relación a los objetivos cuantificados de reducción de emisiones a 2020 (periodo 2013-2020). El uso de estos mecanismos de mercado se explica en el documento enviado por la UE en 2012 mencionado en el párrafo anterior. Con respecto al papel de Uso de la Tierra, Cambio de Uso y Silvicultura (LULUCF), el compromiso de la UE para el periodo 2013-2020 no incluye las emisiones/absorciones del sector LULUCF.

[Información más detallada sobre el objetivo de España se incluye en la Tabla 2 del CTF, incluida en el Anexo I.](#)

## 4. PROGRESO EN LA CONSECUCCIÓN DE LOS OBJETIVOS DE LIMITACIÓN Y REDUCCIÓN DE EMISIONES QUE CUBREN TODOS LOS SECTORES DE LA ECONOMÍA

España ha reforzado la estructura institucional en materia de cambio climático, para lo cual el Ministerio de Agricultura, Alimentación y Medio Ambiente (MAGRAMA), con la Secretaría de Estado de Medio Ambiente dirige y coordina la ejecución de las competencias que corresponden a este Departamento en relación con la formulación de las políticas de cambio climático entre otras cuestiones. Estas competencias se ejercen a través de la Oficina Española de Cambio Climático (OECC). Esta estructura está respaldada por un sistema de coordinación interministerial, la Comisión Interministerial para el Cambio Climático, adscrita al Ministerio de Agricultura, Alimentación y Medio Ambiente y presidida por el Ministro de Agricultura, Alimentación y Medio Ambiente, el Consejo Nacional del Clima, que preside también el Ministro y en el que participan representantes de la sociedad civil, y la Comisión de Coordinación de Políticas de Cambio Climático, que preside el Secretario de Estado de Medio Ambiente.

En base al Paquete Energía y Cambio Climático adoptado por la Unión Europea, España ha desarrollado una cartera de medidas en los distintos sectores con el fin de dar cumplimiento a sus objetivos.

[Las principales medidas se incluyen en la Tabla 3 del CTF incluida en el Anexo I. Mayor detalle de cada medida se puede encontrar en el Capítulo 4 de la Sexta Comunicación Nacional de España. La contribución de los mecanismos de mercado y las actividades LULUCF al objetivo se incluyen en la Tabla 4 del CTF, recogida en el Anexo I.](#)

Entre los planes, programas y acciones legislativas para la implementación de Protocolo de Kioto y con el fin de fomentar la reducción de las emisiones en los sectores industrial y eléctrico, la Unión Europea ha apostado por el Régimen Comunitario de Comercio de Derechos de Emisión establecido por la Directiva 2003/87/CE del Parlamento y del Consejo Europeo, de 13 de octubre. También el Gobierno español, en la búsqueda del cumplimiento con el Protocolo de Kioto, ha decidido utilizar, de forma complementaria a las medidas domésticas que se han emprendido en la lucha contra el cambio climático los instrumentos de flexibilidad.

Es muy importante señalar que la política nacional en materia de cambio climático establecida en el marco de la AGE se ve complementada a través de las políticas y medidas autonómicas y las de los Entes Locales.

Los objetivos de las actuaciones en la materia planteados por las Comunidades Autónomas (CCAA) responden a las circunstancias particulares de cada región, estableciendo en todos los casos la necesidad de una disminución de las emisiones de Gases de Efecto Invernadero (GEI) y de la adaptación a los previsibles efectos negativos.

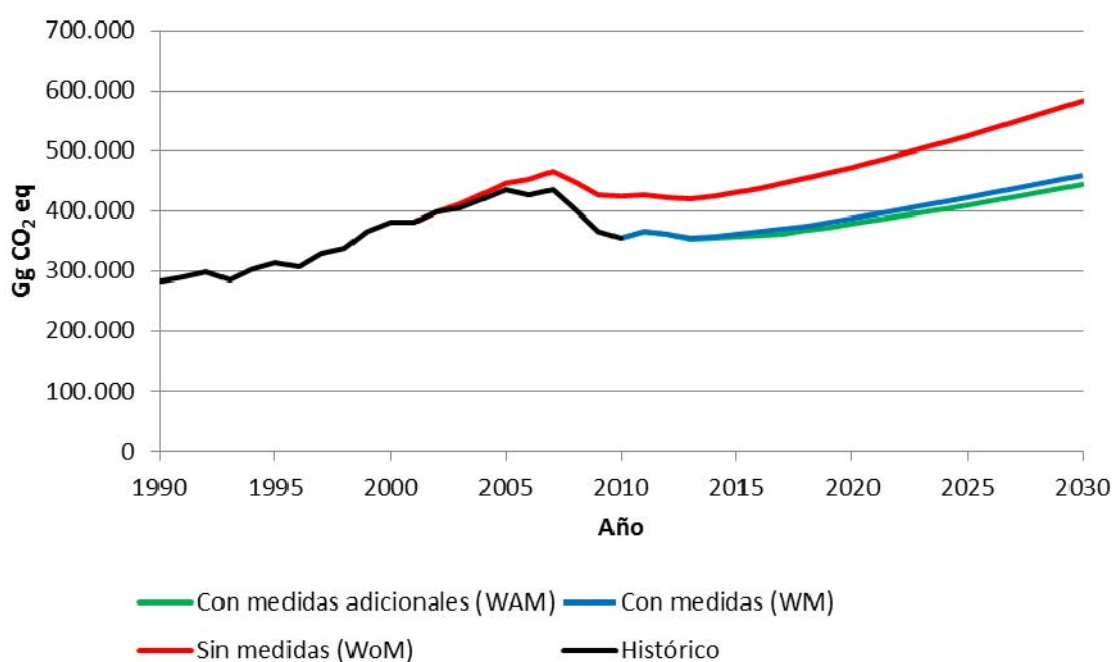
Por su parte, la gran mayoría de los Gobiernos Locales están trabajando de manera muy activa para prevenir el cambio climático. El desarrollo de estas actuaciones está enmarcado en el ámbito de la Red Española de Ciudades por el Clima (RECC), formada por las Entidades Locales que están integrando la protección del clima en sus políticas municipales.

Todas estas acciones son un punto y seguido en la política de España y a lo largo del año 2013 se está trabajando en el diseño de la Hoja de Ruta de los sectores difusos, es decir, aquellos no incluidos en la Directiva de Comercio de Emisiones, los denominados sectores difusos. Esta Hoja pretende ser un paquete de acciones que permitan el cumplimiento de los objetivos climáticos de España desde 2013 a 2020.

## 5. PROYECCIONES

Las Proyecciones de Emisiones a la Atmósfera (Proyecciones) son una herramienta fundamental para conocer las tendencias y el efecto de las medidas. El horizonte de proyección se extiende en esta edición hasta el año 2030, es decir, cubre el periodo 2011-2030. **Los escenarios** sobre los que se proyectan las emisiones son tres: Escenario "Sin medidas" (WoM), Escenarios "con medidas" (WM), escenario "con medidas adicionales"(WAM).

En la siguiente Ilustración se muestra la evolución de las emisiones de gases de efecto invernadero expresadas en kilotoneladas de CO<sub>2</sub> equivalente para los tres escenarios considerados sin incluir LULUCF.



El modelo y sistema de proyecciones de España se explican en detalle y por sectores en el Capítulo 5 de la Sexta Comunicación Nacional de España. Las Tablas 5 y 6 del CTF, que reflejan la información sobre estas proyecciones, se incluyen en el Anexo I del documento.

## 6. PRESTACIÓN DE APOYO FINANCIERO, TECNOLÓGICO Y CREACIÓN DE CAPACIDAD PARA LOS PAÍSES EN DESARROLLO

El apoyo por parte de España a los países en desarrollo en relación con el cambio climático, tanto financiero como tecnológico y de capacitación, se ha articulado a través de contribuciones multilaterales, regionales y bilaterales y también a través de colaboraciones y cooperaciones técnicas con numerosos organismos, programas, proyectos e iniciativas.

En el Primer Informe Bienal de España, siguiendo el formato de las directrices acordadas, se presentan los datos de las contribuciones relacionadas con cambio climático de España a países en desarrollo en materia de cambio climático, tanto a través de Ayuda Oficial al Desarrollo (AOD) como de Otros Flujos Oficiales (OFO), en los años 2011 y 2012 (ver [Tabla 7 del CTF en el Anexo I](#)). Asimismo, se presenta una selección de ejemplos de las principales actuaciones llevadas a cabo en estos años en materia desarrollo y transferencia de tecnologías (ver [Tabla 8 del CTF en el Anexo I](#)) y en materia de capacitación (ver [Tabla 9 del CTF en el Anexo I](#)).

En el [Capítulo 7 de la Sexta Comunicación Nacional de España a la CMNUCC](#) se presenta información más detallada sobre el apoyo dado a países en desarrollo en los últimos años a través de diferentes actuaciones.

En relación a cómo garantizar que los recursos proporcionados hagan frente de manera efectiva a las necesidades en materia de cambio climático de las Partes no Anexo I, el apoyo dado a través de la Ayuda Oficial al Desarrollo bilateral se basa en el principio, integrado en el Plan Director de la Cooperación Española, de orientar cada vez más las actuaciones hacia resultados de desarrollo definidos previamente por los países socios receptores de la ayuda. Respecto al apoyo dado a través de la Ayuda Oficial al Desarrollo multilateral son los propios organismos quienes trabajan con los países receptores en la identificación de prioridades.

En relación al concepto de nuevo y adicional, España considera que las contribuciones desembolsadas en materia de cambio climático son nuevas y adicionales cuando se trata de aportaciones realizadas a actividades que son nuevas y específicas de cambio climático. Así, España ha hecho importantes esfuerzos para apoyar programas, proyectos y fondos específicos de cambio climático siempre que el contexto económico se lo ha permitido, y ha cumplido con sus compromisos asumidos, como es el caso de la financiación *fast start* o financiación temprana para el período 2010-2012.

En relación a los conceptos de comprometido y desembolsado, como norma general se incluyen las contribuciones que han sido “desembolsadas” (*provided*), es decir fondos aportados al país u organismo en ese mismo año. Sólo se han contabilizado contribuciones “comprometidas” (*committed*) en el caso de dos contribuciones del año 2012, al haberse cumplido la mayor parte de los trámites necesarios para poder proceder a su desembolso, y en el caso de las operaciones de créditos a la exportación, debido a la naturaleza del propio instrumento.

En relación con la moneda y el tipo de cambio utilizado, las contribuciones han sido reportadas en Euros y Dólares (USD), para aquellos casos en los que no se dispone del tipo de cambio utilizado para su conversión a Dólares, se ha utilizado la media anual del CAD-OCDE (*Annual Average Dollar Exchange Rates for DAC Members*).

En relación a cómo se definen las contribuciones para el cambio climático, España considera que la financiación climática se refiere a aquellos flujos financieros orientados hacia un modelo de desarrollo bajo en carbono y resiliente al cambio climático, que por un lado promueven

actividades y proyectos en el ámbito de la mitigación y, por tanto, de la reducción de emisiones de gases de efecto invernadero (GEI) y, por otro lado, promueven actividades y proyectos en el ámbito de la adaptación, reduciendo la vulnerabilidad a los impactos del cambio climático y los riesgos asociados con el clima.

En relación a cómo realizar la contabilización y el seguimiento de la ayuda dada, hay que diferenciar la ayuda en función del tipo de contribuciones:

- Para el caso de las contribuciones bilaterales de Ayuda Oficial al Desarrollo, España trabaja en la mejora de la aplicación de los marcadores de río del CAD OCDE específicos para cambio climático. Así, en 2012, la cuantificación de estas contribuciones se ha hecho en base a estos marcadores, contabilizando el 100% de la contribución si la incidencia era principal en adaptación o en mitigación, el 20% si era significativa en adaptación o en mitigación y el 40% si era significativa en mitigación y adaptación. Para el año 2011 y años anteriores, debido a que la aplicación de estos marcadores se encontraba aún en una fase piloto y que el marcador de adaptación era de reciente creación, se utilizó una metodología basada en la clasificación sectorial de las contribuciones (*Creditor Reporting System* del CAD-OCDE) revisando las contribuciones de los sectores que más relación tienen con el cambio climático. [Para más información ver Capítulo 7 de la Sexta Comunicación Nacional de España a la CMNUCC.](#)
- Para el caso de las contribuciones multilaterales, se ha diferenciado entre las que son fáciles de identificar puesto que se destinan a fondos y programas específicos de cambio climático o están enfocadas a sectores que promueven la lucha contra el cambio climático, y las contribuciones generales a organismos multilaterales de las cuales se desconoce exactamente qué parte de las contribuciones ha sido destinada a proyectos de cambio climático.
- Finalmente, para el caso de las contribuciones a través de Otros Flujos Oficiales, la identificación se ha hecho en base a la descripción del proyecto y valorando si éste promueve la lucha contra el cambio climático.

En relación con la financiación privada: España gestiona determinados instrumentos de financiación en el exterior, tanto comercial como de cooperación al desarrollo, que promueven el apalancamiento de financiación privada, entre los que se destaca:

#### 1. FIEM: Fondo para la Internacionalización de la Empresa

El FIEM es un instrumento concebido para la financiación directa de contratos internacionales de suministro de bienes, provisión de servicios o ejecución de proyectos, suscritos por empresas españolas, y para el apoyo a la inversión directa de éstas en el exterior. El FIEM puede participar en la financiación de proyectos pertenecientes a cualquier sector de interés en el marco de la política comercial española, exceptuando el material de defensa o de doble uso destinado a fines bélicos, y determinadas operaciones relativas a los sectores de la salud y educación, cuando no conlleven la exportación de bienes cuya fabricación en España sea indubitable e incorporen un importante contenido tecnológico.

Uno de los objetivos del FIEM es promover el apalancamiento de sus recursos con aquellos procedentes de otras fuentes, bien privadas, públicas o multilaterales, permitiendo así dar cabida a un mayor número de proyectos, incorporar nuevos mercados y aumentar el número de empresas beneficiarias. De esta manera, el FIEM ha servido como instrumento de cierre de financiación en diversos proyectos, contribuyendo en un determinado porcentaje a cubrir el presupuesto de ejecución, pudiéndose considerar el importe restante como flujos financieros privados apalancados por los recursos del FIEM.

En relación con las operaciones relacionadas con el cambio climático reflejadas en la [Tabla 7b del CTF](#), los flujos financieros privados apalancados a través de las operaciones del FIEM ascendieron a 124 millones de euros en 2012. En el año 2011 no hubo financiación privada apalancada como consecuencia de las contribuciones del FIEM.

Las diferentes modalidades de financiación con que cuenta el instrumento son las siguientes:

- a) Financiación en términos comerciales OCDE: Su objetivo es complementar a la financiación bancaria, con o sin cobertura de CESCE, o a otras fuentes de financiación con el fin de proporcionar los recursos necesarios para cerrar el otorgamiento de un crédito en términos del Consenso de la OCDE, modalidad “comprador”, como soporte a un contrato de exportación de bienes, provisión de servicios o ejecución en términos EPC, suscrito por una entidad española.
- b) Financiación en términos comerciales de apoyo a inversión: Consiste en la financiación, mediante deuda senior, de operaciones de apoyo a la inversión por parte de empresas españolas, siempre que la empresa española, promotora del proyecto de inversión, asuma la gestión efectiva de la compañía no residente, propietaria del proyecto. Las operaciones pueden tener como objeto la creación de una Sociedad de Propósito Específico que conlleve construcción, operación y mantenimiento (financiación de proyecto o Project Finance), o una inversión productiva (financiación corporativa).
- c) Financiación concesional de proyectos: Esta modalidad de financiación FIEM está destinada a la financiación de proyectos no viables comercialmente, según criterio establecido por la OCDE, cuya ejecución vaya a realizarse en países cuya renta per cápita sea inferior a 4.035 \$. En este tipo de financiación el deudor o, en su caso, el garante deberá siempre ser el soberano, multilateral.
- d) Línea FIEM EVATIC: Se trata de una Línea de financiación, de carácter reembolsable, destinada a financiar la contratación de estudios de viabilidad, consultoría, ingeniería y asistencia técnica por entidades extranjeras con empresas españolas. Los solicitantes de la financiación podrán ser entidades de carácter privado o público que dispongan de solvencia adecuada al importe del préstamo solicitado.

## 2. Instrumentos gestionados por CESCE, Compañía de Créditos a la Exportación

La Compañía de Créditos a la Exportación, CESCE, gestiona entre otros instrumentos, pólizas suscritas de la modalidad de crédito comprador. Bajo esta modalidad, se puede decir que CESCE otorga cobertura a entidades financieras que conceden un crédito a un importador extranjero para financiar el pago de un contrato comercial que éste tiene firmado con un exportador español. CESCE indemnizaría por Cuenta del Estado a la entidad financiera en el caso de que el importador no atendiera las obligaciones de pago a las que le obliga el convenio de crédito firmado con la mencionada entidad. Para más información: <http://www.cesce.es/web/sp/productos/Poliza-de-Credito-Comprador.aspx>.

Este instrumento está regulado por la OCDE a través del Consenso para Créditos a la Exportación con Apoyo Oficial.

En relación con las operaciones relacionadas con el cambio climático reflejadas en la [Tabla 7b del CTF](#), incluida en el [Anexo I](#), los flujos financieros privados apalancados a través de las operaciones de CESCE ascendieron a 119 millones de euros en 2011.

## 3. Instrumentos gestionados por COFIDES S.A, Compañía de Financiación del Desarrollo

COFIDES es la Institución Financiera Bilateral de Desarrollo española, y, a través de su actividad de financiación de la internacionalización de la empresa y economía española, COFIDES también financia proyectos con efectos de mitigación y adaptación al cambio climático en países en desarrollo.



Por otro lado, COFIDES forma parte de *Interact Climate Change Facility* (ICCF), facilidad de inversiones creada por la Agencia Francesa de Desarrollo (AFD), el Banco Europeo de Inversiones (BEI) y la Asociación de Instituciones Financieras de Desarrollo bilaterales europeas (EDFI). ICCF tiene por objeto financiar proyectos privados y viables de inversión que contribuyan a mitigar el cambio climático y a fomentar la eficiencia energética en países receptores de Ayuda Oficial al Desarrollo.



## **ANEXO 1. TABLAS DEL INFORME BIENAL**



Table 1

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**Emission trends: summary** <sup>(1)</sup>  
(Sheet 1 of 3)

CRF: Submission 2014 v1.4, SPAIN

<i>GREENHOUSE GAS EMISSIONS</i>	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	207,416.68	215,238.56	223,480.96	214,287.37	223,937.26	234,477.05	221,325.03	240,473.97	247,966.52
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	226,712.82	234,451.50	241,332.95	231,344.14	243,512.79	253,892.17	241,286.16	262,096.26	270,440.21
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	26,759.30	27,324.02	27,664.50	27,810.22	28,626.12	28,594.36	29,814.94	30,550.57	31,313.30
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	26,586.45	27,055.50	27,570.14	27,732.80	28,107.72	28,450.45	29,772.96	30,424.16	31,189.55
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	26,153.99	25,716.81	24,560.71	22,759.39	25,290.21	24,782.52	27,903.78	26,990.08	28,206.55
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	26,136.45	25,689.56	24,551.14	22,751.54	25,237.60	24,767.91	27,899.52	26,977.25	28,193.99
HFCs	2,403.18	2,179.01	2,762.60	2,258.39	3,458.21	4,645.55	5,199.37	6,164.41	5,897.02
PFCs	882.92	827.43	789.91	830.79	818.88	832.52	800.60	828.21	782.65
SF <sub>6</sub>	66.92	72.90	75.88	80.28	89.34	108.34	114.79	129.90	139.11
<b>Total (including LULUCF)</b>	263,682.99	271,358.71	279,334.58	268,026.44	282,220.01	293,440.33	285,158.51	305,137.14	314,305.15
<b>Total (excluding LULUCF)</b>	282,788.74	290,275.89	297,082.62	284,997.93	301,224.54	312,696.93	305,073.41	326,620.19	336,642.52

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
1. Energy	210,928.14	219,399.45	228,262.77	218,664.56	228,908.52	239,534.72	227,113.49	247,181.39	254,150.19
2. Industrial Processes	25,812.58	24,390.88	22,842.60	21,578.01	25,207.83	26,672.98	27,079.54	29,072.86	29,968.96
3. Solvent and Other Product Use	1,515.76	1,581.38	1,620.97	1,576.29	1,653.02	1,717.97	1,823.36	1,884.44	1,937.36
4. Agriculture	37,209.46	37,198.56	36,235.34	34,688.89	36,679.32	35,837.15	39,793.09	38,756.19	40,445.17
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-19,105.74	-18,917.18	-17,748.05	-16,971.49	-19,004.52	-19,256.60	-19,914.90	-21,483.05	-22,337.37
6. Waste	7,322.80	7,705.62	8,120.94	8,490.18	8,775.85	8,934.11	9,263.92	9,725.31	10,140.84
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total (including LULUCF)</b>	263,682.99	271,358.71	279,334.58	268,026.44	282,220.01	293,440.33	285,158.51	305,137.14	314,305.15

**Note:** All footnotes for this table are given on sheet 3.

<sup>1</sup> The common tabular format will be revised, in accordance with relevant decisions of the Conference of the Parties and, where applicable, with decisions of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol."

Table 1

ESP\_BR1\_v0.1

**Emission trends: summary <sup>(1)</sup>**  
**(Sheet 2 of 3)**

CRF: Submission 2014 v1.4, SPAIN

<i>GREENHOUSE GAS EMISSIONS</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	272,812.17	283,583.54	288,042.32	306,497.23	311,210.32	327,378.02	342,506.67	329,321.04	334,123.60	304,275.65
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	295,641.46	307,023.20	311,346.58	330,004.23	333,913.45	351,769.33	367,311.97	357,307.08	363,812.95	333,386.61
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	31,400.07	32,323.09	33,028.60	33,342.73	33,577.23	33,294.69	33,420.22	34,020.59	33,908.74	33,281.64
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	31,322.96	32,162.63	32,963.56	33,240.26	33,435.85	33,180.98	33,183.87	33,509.54	33,874.03	33,259.98
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	29,358.22	30,600.04	28,932.76	27,746.07	29,425.23	27,977.69	26,397.44	26,863.71	27,375.69	24,507.86
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	29,350.39	30,583.75	28,926.15	27,735.67	29,410.88	27,966.15	26,373.45	26,811.84	27,372.17	24,505.66
HFCs	7,303.85	8,365.60	5,534.13	4,183.37	5,357.52	5,045.52	5,405.39	5,972.77	6,283.76	7,043.22
PFCs	722.83	436.03	268.94	297.48	304.59	312.73	288.15	294.10	298.17	314.84
SF <sub>6</sub>	175.36	204.60	182.79	207.13	207.66	254.00	271.57	352.11	368.20	366.08
<b>Total (including LULUCF)</b>	341,772.49	355,512.90	355,989.54	372,274.01	380,082.55	394,262.65	408,289.44	396,824.33	402,358.17	369,789.28
<b>Total (excluding LULUCF)</b>	364,516.86	378,775.82	379,222.15	395,668.15	402,629.95	418,528.71	432,834.41	424,247.46	432,009.28	398,876.39

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>
1. Energy	278,417.14	289,223.36	292,783.71	310,698.53	314,001.19	331,491.41	346,157.96	335,386.83	342,147.04	314,786.54
2. Industrial Processes	32,355.55	33,886.32	31,066.81	30,459.89	31,995.39	32,128.64	33,608.58	34,440.81	34,186.80	31,687.53
3. Solvent and Other Product Use	1,938.28	1,949.23	1,963.93	1,885.99	1,793.99	1,704.74	1,824.33	1,959.72	1,888.21	1,789.77
4. Agriculture	41,317.67	42,953.67	42,220.44	41,119.02	43,392.57	41,819.81	39,522.82	40,306.45	41,198.79	37,491.43
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-22,744.36	-23,262.92	-23,232.61	-23,394.14	-22,547.41	-24,266.06	-24,544.97	-27,423.13	-29,651.11	-29,087.11
6. Waste	10,488.22	10,763.23	11,187.26	11,504.71	11,446.82	11,384.10	11,720.73	12,153.66	12,588.43	13,121.12
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total (including LULUCF)</b>	341,772.49	355,512.90	355,989.54	372,274.01	380,082.55	394,262.65	408,289.44	396,824.33	402,358.17	369,789.28

**Note:** All footnotes for this table are given on sheet 3.

Table 1

ESP\_BR1\_v0.1

**Emission trends: summary <sup>(1)</sup>**  
**(Sheet 3 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS EMISSIONS	2009	2010	2011	Change from base to latest reported year
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	(%)
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	268,373.67	251,975.85	255,269.08	23.07
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	296,949.74	280,938.34	284,407.33	25.45
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	33,556.79	33,409.47	33,215.71	24.13
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	33,494.97	33,348.63	33,154.86	24.71
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	24,245.84	25,383.89	23,940.47	-8.46
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	24,239.57	25,377.72	23,934.30	-8.43
HFCs	7,368.77	8,294.37	8,279.39	244.52
PFCs	297.27	303.69	313.45	-64.50
SF <sub>6</sub>	362.93	378.57	394.35	489.29
<b>Total (including LULUCF)</b>	<b>334,205.28</b>	<b>319,745.85</b>	<b>321,412.46</b>	<b>21.89</b>
<b>Total (excluding LULUCF)</b>	<b>362,713.25</b>	<b>348,641.31</b>	<b>350,483.69</b>	<b>23.94</b>

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	(%)
1. Energy	283,189.05	266,257.82	271,727.18	28.82
2. Industrial Processes	26,863.09	28,270.82	26,127.68	1.22
3. Solvent and Other Product Use	1,636.34	1,592.67	1,449.12	-4.40
4. Agriculture	37,546.79	38,744.04	37,279.06	0.19
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-28,507.97	-28,895.46	-29,071.23	52.16
6. Waste	13,477.98	13,775.96	13,900.66	89.83
7. Other	NA	NA	NA	0.00
<b>Total (including LULUCF)</b>	<b>334,205.28</b>	<b>319,745.85</b>	<b>321,412.46</b>	<b>21.89</b>

*Notes :*

(1) Further detailed information could be found in the common reporting format tables of the Party's greenhouse gas inventory, namely "Emission trends (CO<sub>2</sub>)", "Emission trends (CH<sub>4</sub>)", "Emission trends (N<sub>2</sub>O)" and "Emission trends (HFCs, PFCs and SF<sub>6</sub>)", which is included in an annex to this biennial report.

(2) 2011 is the latest reported inventory year.

(3) 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

*Abbreviation:* LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>b</sup> Includes net CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O from LULUCF.

Table 1 (a)

ESP\_BR1\_v0.1

**Emission trends (CO<sub>2</sub>)**  
**(Sheet 1 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	205,715.54	214,133.45	222,800.71	213,380.43	223,478.82	233,925.86	221,442.17	241,167.26	248,069.87
A. Fuel Combustion (Sectoral Approach)	204,041.67	212,492.64	221,049.22	211,592.33	221,427.84	232,112.08	219,671.66	239,323.01	246,141.69
1. Energy Industries	77,354.18	78,093.10	85,479.16	79,525.39	79,809.36	86,057.85	73,074.00	85,353.93	84,698.49
2. Manufacturing Industries and Construction	46,471.09	48,892.97	45,994.02	44,106.15	49,306.56	53,077.17	48,088.66	54,525.94	54,875.54
3. Transport	54,896.70	57,929.11	61,495.75	60,603.55	63,907.93	64,602.68	69,017.76	69,749.83	76,112.14
4. Other Sectors	25,319.70	27,577.46	28,080.28	27,357.25	28,403.98	28,374.37	29,491.24	29,693.31	30,455.52
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	1,673.86	1,640.81	1,751.49	1,788.10	2,050.99	1,813.78	1,770.51	1,844.25	1,928.18
1. Solid Fuels	17.63	17.46	16.21	16.77	16.43	13.38	13.25	14.53	14.44
2. Oil and Natural Gas	1,656.24	1,623.35	1,735.28	1,771.33	2,034.56	1,800.40	1,757.26	1,829.72	1,913.73
<b>2. Industrial Processes</b>	19,596.07	18,919.00	17,142.31	16,705.61	18,808.24	18,876.48	18,691.15	19,764.36	21,112.42
A. Mineral Products	15,427.19	14,766.67	13,405.22	12,882.11	14,766.10	15,886.96	15,624.35	16,393.81	17,636.69
B. Chemical Industry	784.96	915.81	763.13	569.53	724.69	742.20	769.06	804.68	760.30
C. Metal Production	3,383.93	3,236.52	2,973.96	3,253.97	3,317.44	2,247.31	2,297.74	2,565.87	2,715.43
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	1,096.25	1,076.54	1,023.59	910.96	931.83	959.39	1,042.79	1,092.72	1,187.86
<b>4. Agriculture</b>									
A. Enteric Fermentation									
B. Manure Management									
C. Rice Cultivation									
D. Agricultural Soils									
E. Prescribed Burning of Savannas									
F. Field Burning of Agricultural Residues									
G. Other									
<b>5. Land Use, Land-Use Change and Forestry</b>	-19,296.14	-19,212.94	-17,851.99	-17,056.77	-19,575.53	-19,415.11	-19,961.14	-21,622.29	-22,473.68
A. Forest Land	-18,810.32	-18,930.91	-19,062.18	-19,207.67	-19,552.35	-20,028.82	-20,557.99	-20,955.81	-21,610.76
B. Cropland	-929.28	-682.06	853.49	1,837.61	-293.70	386.77	413.54	-807.78	-958.51
C. Grassland	-46.76	-93.54	-140.22	-186.99	-233.11	-280.04	-327.01	-372.37	-421.43
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	490.23	493.58	496.93	500.28	503.63	506.98	510.33	513.68	517.03
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>6. Waste</b>	304.95	322.51	366.34	347.13	293.90	130.44	110.05	71.92	70.06
A. Solid Waste Disposal on Land	226.69	267.78	307.69	299.09	243.64	104.22	82.83	60.18	58.34
B. Waste-water Handling									
C. Waste Incineration	78.27	54.73	58.65	48.04	50.25	26.22	27.22	11.74	11.72
D. Other	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CO2 emissions including net CO2 from LULUCF</b>	207,416.68	215,238.56	223,480.96	214,287.37	223,937.26	234,477.05	221,325.03	240,473.97	247,966.52
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	226,712.82	234,451.50	241,332.95	231,344.14	243,512.79	253,892.17	241,286.16	262,096.26	270,440.21
<b>Memo Items:</b>									
<b>International Bunkers</b>	17,332.56	17,961.48	18,761.54	17,337.08	16,592.06	17,490.51	22,609.57	26,495.41	28,332.52
Aviation	5,804.79	5,737.76	6,377.32	6,515.78	6,802.08	7,429.20	7,921.16	8,379.35	9,250.25
Marine	11,527.78	12,223.72	12,384.22	10,821.30	9,789.97	10,061.31	14,688.42	18,116.05	19,082.26
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO2 Emissions from Biomass</b>	15,912.74	15,892.36	15,614.58	15,314.71	15,220.38	15,248.17	14,965.75	15,655.03	15,238.90

Note: All footnotes for this table are given on sheet 3.



Table 1 (a)

ESP\_BR1\_v0.1

Emission trends (CO<sub>2</sub>)  
(Sheet 2 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	272,408.88	282,985.18	286,959.21	304,752.49	308,200.47	325,492.29	339,987.03	329,567.99	336,506.50	309,433.00
A. Fuel Combustion (Sectoral Approach)	270,422.91	280,856.31	284,947.69	302,687.12	306,299.51	323,332.46	337,835.49	327,254.14	334,027.03	307,247.82
1. Energy Industries	100,551.78	104,705.02	99,161.60	112,736.43	105,882.04	115,518.76	125,276.22	116,324.33	122,280.61	105,161.18
2. Manufacturing Industries and Construction	57,229.42	59,657.60	63,966.22	65,334.59	69,941.04	72,335.48	73,234.75	71,303.66	68,509.33	64,349.11
3. Transport	80,639.44	82,865.60	87,102.79	88,956.68	92,912.79	96,530.60	99,767.55	102,716.49	106,156.07	100,693.18
4. Other Sectors	32,002.27	33,628.08	34,717.08	35,659.42	37,563.64	38,947.62	39,556.97	36,909.67	37,081.02	37,044.34
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	1,985.97	2,128.87	2,011.52	2,065.38	1,900.96	2,159.83	2,151.54	2,313.84	2,479.47	2,185.18
1. Solid Fuels	12.80	15.27	14.54	14.42	72.03	72.80	89.91	124.94	93.55	43.35
2. Oil and Natural Gas	1,973.18	2,113.60	1,996.98	2,050.95	1,828.93	2,087.03	2,061.64	2,188.90	2,385.92	2,141.83
<b>2. Industrial Processes</b>	21,936.85	22,733.31	23,130.15	24,013.76	24,477.68	25,053.69	26,133.56	26,596.97	26,179.36	22,919.85
A. Mineral Products	18,481.85	19,120.83	19,512.75	20,247.41	20,819.73	21,297.22	21,905.74	22,120.20	21,945.32	18,831.10
B. Chemical Industry	711.93	693.97	701.74	686.56	707.93	670.99	715.56	656.90	693.33	577.63
C. Metal Production	2,743.06	2,918.50	2,915.67	3,079.79	2,950.02	3,085.47	3,512.26	3,819.86	3,540.72	3,511.12
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	1,228.75	1,254.38	1,209.30	1,198.90	1,201.24	1,193.57	1,162.86	1,124.74	1,112.06	1,020.78
<b>4. Agriculture</b>										
A. Enteric Fermentation										
B. Manure Management										
C. Rice Cultivation										
D. Agricultural Soils										
E. Prescribed Burning of Savannas										
F. Field Burning of Agricultural Residues										
G. Other										
<b>5. Land Use, Land-Use Change and Forestry</b>	-22,829.29	-23,439.66	-23,304.26	-23,507.00	-22,703.13	-24,391.30	-24,805.31	-27,986.05	-29,689.35	-29,110.96
A. Forest Land	-22,010.32	-22,445.61	-22,918.85	-23,206.41	-23,522.63	-24,092.37	-24,265.50	-24,326.81	-24,935.62	-25,087.48
B. Cropland	-871.46	-1,002.13	-350.30	-222.60	941.28	-133.01	-331.26	-3,407.40	-4,459.88	-3,686.48
C. Grassland	-467.89	-515.64	-562.18	-608.42	-655.56	-703.04	-749.02	-795.66	-841.01	-887.52
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	520.38	523.72	527.07	530.42	533.77	537.12	540.47	543.82	547.17	550.52
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>6. Waste</b>	66.98	50.33	47.91	39.07	34.06	29.78	28.52	17.39	15.02	12.99
A. Solid Waste Disposal on Land	54.36	37.91	35.75	27.14	26.82	25.89	24.79	14.37	12.11	9.85
B. Waste-water Handling										
C. Waste Incineration	12.61	12.42	12.16	11.93	7.25	3.89	3.74	3.02	2.91	3.14
D. Other	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CO2 emissions including net CO2 from LULUCF</b>	272,812.17	283,583.54	288,042.32	306,497.23	311,210.32	327,378.02	342,506.67	329,321.04	334,123.60	304,275.65
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	295,641.46	307,023.20	311,346.58	330,004.23	333,913.45	351,769.33	367,311.97	357,307.08	363,812.95	333,386.61
<b>Memo Items:</b>										
<b>International Bunkers</b>	28,210.16	29,354.03	31,648.81	31,708.90	32,702.64	34,408.78	37,352.45	39,056.95	40,375.54	41,454.38
Aviation	9,586.92	10,330.02	10,358.78	9,912.49	10,484.22	11,512.35	12,213.29	12,812.89	13,525.93	13,612.95
Marine	18,623.24	19,024.00	21,290.03	21,796.41	22,218.42	22,896.43	25,139.16	26,244.06	26,849.61	27,841.43
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO2 Emissions from Biomass</b>	15,316.56	15,664.75	15,876.77	17,204.40	18,391.73	18,924.54	19,283.20	18,085.49	18,812.99	19,653.67

Note: All footnotes for this table are given on sheet 3.

Table 1(a)

ESP\_BR1\_v0.1

**Emission trends (CO<sub>2</sub>)**  
**(Sheet 3 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	278,160.52	261,314.44	266,745.12	29.67
A. Fuel Combustion (Sectoral Approach)	276,059.60	259,100.29	264,164.62	29.47
1. Energy Industries	88,994.37	71,834.95	85,802.79	10.92
2. Manufacturing Industries and Construction	55,691.60	58,481.31	57,597.77	23.94
3. Transport	95,303.91	90,950.91	86,450.47	57.48
4. Other Sectors	36,069.72	37,833.13	34,313.59	35.52
5. Other	IE, NA	IE, NA	IE, NA	0.00
B. Fugitive Emissions from Fuels	2,100.92	2,214.15	2,580.49	54.16
1. Solid Fuels	14.01	37.13	43.86	148.80
2. Oil and Natural Gas	2,086.91	2,177.02	2,536.63	53.16
<b>2. Industrial Processes</b>	17,886.35	18,729.92	16,822.04	-14.16
A. Mineral Products	14,661.25	14,546.89	12,999.45	-15.74
B. Chemical Industry	574.70	707.63	762.63	-2.84
C. Metal Production	2,650.40	3,475.40	3,059.96	-9.57
D. Other Production	NA	NA	NA	0.00
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>	894.63	888.58	835.40	-23.79
<b>4. Agriculture</b>				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				
<b>5. Land Use, Land-Use Change and Forestry</b>	-28,576.07	-28,962.48	-29,138.26	51.01
A. Forest Land	-25,179.05	-25,223.31	-25,237.68	34.17
B. Cropland	-3,016.41	-3,361.99	-3,526.80	279.52
C. Grassland	-934.47	-934.47	-934.47	1,898.24
D. Wetlands	NE, NO	NE, NO	NE, NO	0.00
E. Settlements	553.87	557.28	560.69	14.37
F. Other Land	NE, NO	NE, NO	NE, NO	0.00
G. Other	NO	NO	NO	0.00
<b>6. Waste</b>	8.24	5.40	4.78	-98.43
A. Solid Waste Disposal on Land	5.10	2.26	1.64	-99.28
B. Waste-water Handling				
C. Waste Incineration	3.14	3.14	3.14	-95.99
D. Other	NA	NA	NA	0.00
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total CO2 emissions including net CO2 from LULUCF</b>	268,373.67	251,975.85	255,269.08	23.07
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	296,949.74	280,938.34	284,407.33	25.45
<b>Memo Items:</b>				
<b>International Bunkers</b>	40,238.39	39,707.34	41,586.12	139.93
Aviation	12,571.68	13,042.64	14,309.92	146.52
Marine	27,666.71	26,664.71	27,276.20	136.61
<b>Multilateral Operations</b>	NA	NA	NA	0.00
<b>CO2 Emissions from Biomass</b>	20,761.07	22,994.27	24,306.17	52.75

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>b</sup> Fill in net emissions/removals as reported in CRF table Summary 1.A of the latest reported inventory year. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

Table 1(b)

ESP\_BR1\_v0.1

Emission trends (CH<sub>4</sub>)

(Sheet 1 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	174.87	173.50	179.26	169.84	166.76	165.62	165.37	171.56	167.91
A. Fuel Combustion (Sectoral Approach)	59.11	62.82	64.87	61.17	60.21	58.33	59.17	60.05	61.13
1. Energy Industries	1.16	1.48	1.41	1.28	0.96	1.26	1.70	1.49	1.56
2. Manufacturing Industries and Construction	3.90	4.38	4.63	5.07	5.57	7.32	7.89	9.65	11.30
3. Transport	15.16	16.12	17.31	16.18	16.32	15.02	15.25	14.43	14.40
4. Other Sectors	38.89	40.82	41.52	38.64	37.36	34.73	34.33	34.48	33.87
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	115.76	110.69	114.39	108.67	106.55	107.30	106.20	111.52	106.78
1. Solid Fuels	86.55	76.86	77.17	74.44	69.96	69.96	70.88	70.48	63.32
2. Oil and Natural Gas	29.21	33.83	37.22	34.22	36.60	37.33	35.31	41.04	43.47
<b>2. Industrial Processes</b>	2.94	2.94	3.07	3.24	3.48	3.12	3.14	3.30	3.45
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	1.93	1.93	2.16	2.27	2.50	2.38	2.46	2.53	2.64
C. Metal Production	1.01	1.01	0.91	0.97	0.98	0.75	0.68	0.77	0.81
D. Other Production									
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>									
<b>4. Agriculture</b>	806.32	810.72	811.89	811.22	815.62	815.73	862.10	865.14	885.72
A. Enteric Fermentation	529.54	529.96	523.76	522.45	520.85	521.47	560.35	550.41	558.90
B. Manure Management	246.30	248.91	258.21	262.67	267.01	268.75	268.78	278.54	293.54
C. Rice Cultivation	10.83	11.25	10.28	5.74	8.00	6.53	12.62	13.63	13.52
D. Agricultural Soils	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
E. Prescribed Burning of Savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field Burning of Agricultural Residues	19.65	20.60	19.64	20.36	19.76	18.98	20.36	22.56	19.75
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>5. Land Use, Land-Use Change and Forestry</b>	8.23	12.79	4.49	3.69	24.69	6.85	2.00	6.02	5.89
A. Forest Land	8.23	12.79	4.49	3.69	24.69	6.85	2.00	6.02	5.89
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
C. Grassland	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>6. Waste</b>	281.89	301.19	318.63	336.31	352.59	370.31	387.15	408.76	428.13
A. Solid Waste Disposal on Land	243.02	261.90	280.01	297.85	313.60	332.37	350.59	371.22	390.31
B. Waste-water Handling	26.77	27.22	26.79	27.03	28.77	28.81	28.42	30.30	31.56
C. Waste Incineration	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
D. Other	12.09	12.07	11.83	11.42	10.21	9.11	8.12	7.23	6.26
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CH4 emissions including CH4 from LULUCF</b>	1,274.25	1,301.14	1,317.36	1,324.30	1,363.15	1,361.64	1,419.76	1,454.79	1,491.11
<b>Total CH4 emissions excluding CH4 from LULUCF</b>	1,266.02	1,288.36	1,312.86	1,320.61	1,338.46	1,354.78	1,417.76	1,448.77	1,485.22
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.60	0.64	0.64	0.60	0.55	0.55	0.78	0.94	1.03
Aviation	0.05	0.05	0.05	0.05	0.04	0.05	0.04	0.04	0.04
Marine	0.55	0.60	0.59	0.55	0.51	0.51	0.74	0.90	0.99
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO2 Emissions from Biomass</b>									

Note: All footnotes for this table are given on sheet 3.

Table 1(b)

ESP\_BR1\_v0.1

**Emission trends (CH<sub>4</sub>)**

(Sheet 2 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	151.99	158.58	157.56	159.99	152.25	160.17	165.12	150.42	140.20	130.18
A. Fuel Combustion (Sectoral Approach)	62.04	64.25	66.26	66.70	71.99	76.21	79.75	79.31	74.18	72.94
1. Energy Industries	1.67	1.95	1.76	2.15	3.11	4.57	5.43	5.90	6.04	6.48
2. Manufacturing Industries and Construction	13.89	17.11	19.37	20.78	25.61	28.38	31.28	31.11	26.89	26.17
3. Transport	13.53	12.13	11.51	9.72	9.26	8.49	7.89	7.05	6.50	5.59
4. Other Sectors	32.96	33.06	33.62	34.05	34.01	34.78	35.14	35.25	34.75	34.70
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	89.95	94.33	91.30	93.30	80.25	83.95	85.37	71.11	66.01	57.25
1. Solid Fuels	58.71	59.41	52.32	50.63	49.67	47.22	44.71	44.27	42.07	32.97
2. Oil and Natural Gas	31.24	34.92	38.98	42.67	30.58	36.73	40.67	26.84	23.95	24.28
<b>2. Industrial Processes</b>	3.47	3.32	3.41	3.20	3.23	2.99	2.89	2.78	2.96	2.63
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	2.70	2.55	2.63	2.45	2.54	2.25	2.13	2.14	2.21	1.93
C. Metal Production	0.77	0.77	0.78	0.75	0.69	0.74	0.76	0.65	0.75	0.69
D. Other Production										
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>										
<b>4. Agriculture</b>	891.58	911.02	930.93	928.17	948.35	931.91	911.67	920.72	929.49	886.10
A. Enteric Fermentation	562.62	568.12	581.22	581.47	588.54	571.11	559.88	554.98	561.66	535.51
B. Manure Management	297.89	310.40	316.67	318.50	323.61	328.07	324.16	335.83	338.09	322.94
C. Rice Cultivation	13.26	14.04	13.87	13.62	14.19	14.72	14.30	12.78	12.19	11.45
D. Agricultural Soils	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
E. Prescribed Burning of Savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field Burning of Agricultural Residues	17.80	18.46	19.17	14.59	22.01	18.02	13.34	17.12	17.55	16.20
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>5. Land Use, Land-Use Change and Forestry</b>	3.67	7.64	3.10	4.88	6.73	5.41	11.25	24.34	1.65	1.03
A. Forest Land	3.67	7.64	3.10	4.88	6.73	5.41	11.25	24.34	1.65	1.03
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
C. Grassland	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>6. Waste</b>	444.53	458.63	477.79	491.51	488.35	484.98	500.50	521.78	540.40	564.89
A. Solid Waste Disposal on Land	406.39	421.29	440.62	453.52	449.51	446.04	461.80	482.86	501.66	527.12
B. Waste-water Handling	32.22	31.79	32.18	33.23	34.63	35.35	35.67	36.10	36.10	35.48
C. Waste Incineration	0.02	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.04	0.04
D. Other	5.90	5.52	4.97	4.73	4.18	3.57	3.02	2.80	2.61	2.26
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total CH<sub>4</sub> emissions including CH<sub>4</sub> from LULUCF</b>	1,495.24	1,539.19	1,572.79	1,587.75	1,598.92	1,585.46	1,591.44	1,620.03	1,614.70	1,584.84
<b>Total CH<sub>4</sub> emissions excluding CH<sub>4</sub> from LULUCF</b>	1,491.57	1,531.55	1,569.69	1,582.87	1,592.18	1,580.05	1,580.18	1,595.69	1,613.05	1,583.81
<b>Memo Items:</b>										
<b>International Bunkers</b>	1.01	1.05	1.17	1.20	1.22	1.26	1.39	1.44	1.47	1.50
Aviation	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Marine	0.96	1.00	1.12	1.16	1.18	1.22	1.34	1.40	1.43	1.46
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO<sub>2</sub> Emissions from Biomass</b>										

Note: All footnotes for this table are given on sheet 3.

Table 1(b)

ESP\_BR1\_v0.1

**Emission trends (CH<sub>4</sub>)**  
**(Sheet 3 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	124.14	122.39	125.47	-28.25
A. Fuel Combustion (Sectoral Approach)	69.30	71.07	69.65	17.82
1. Energy Industries	6.25	6.04	5.91	409.15
2. Manufacturing Industries and Construction	22.76	25.36	25.27	548.31
3. Transport	5.27	4.72	4.27	-71.85
4. Other Sectors	35.02	34.96	34.20	-12.06
5. Other	IE, NA	IE, NA	IE, NA	0.00
B. Fugitive Emissions from Fuels	54.83	51.31	55.83	-51.78
1. Solid Fuels	29.63	25.53	29.97	-65.37
2. Oil and Natural Gas	25.20	25.79	25.85	-11.50
<b>2. Industrial Processes</b>	2.48	2.81	2.83	-3.69
A. Mineral Products	NA	NA	NA	0.00
B. Chemical Industry	1.95	2.13	2.18	12.86
C. Metal Production	0.53	0.67	0.65	-35.47
D. Other Production				
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>				
<b>4. Agriculture</b>	886.57	866.94	848.77	5.26
A. Enteric Fermentation	531.50	521.11	500.73	-5.44
B. Manure Management	321.87	312.62	314.82	27.82
C. Rice Cultivation	14.30	14.30	14.30	32.07
D. Agricultural Soils	IE, NA	IE, NA	IE, NA	0.00
E. Prescribed Burning of Savannas	NO	NO	NO	0.00
F. Field Burning of Agricultural Residues	18.91	18.91	18.91	-3.80
G. Other	NA	NA	NA	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	2.94	2.90	2.90	-64.80
A. Forest Land	2.94	2.90	2.90	-64.80
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	0.00
C. Grassland	NE, NO	NE, NO	NE, NO	0.00
D. Wetlands	NE, NO	NE, NO	NE, NO	0.00
E. Settlements	NO	NO	NO	0.00
F. Other Land	NE, NO	NE, NO	NE, NO	0.00
G. Other	NA	NA	NA	0.00
<b>6. Waste</b>	581.81	595.90	601.73	113.47
A. Solid Waste Disposal on Land	547.05	560.52	566.55	133.13
B. Waste-water Handling	32.70	33.60	33.65	25.70
C. Waste Incineration	0.03	0.02	0.03	253.12
D. Other	2.03	1.75	1.51	-87.49
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total CH<sub>4</sub> emissions including CH<sub>4</sub> from LULUCF</b>	1,597.94	1,590.93	1,581.70	24.13
<b>Total CH<sub>4</sub> emissions excluding CH<sub>4</sub> from LULUCF</b>	1,595.00	1,588.03	1,578.80	24.71
<b>Memo Items:</b>				
<b>International Bunkers</b>	1.49	1.43	1.48	145.66
Aviation	0.04	0.04	0.04	-16.84
Marine	1.45	1.39	1.44	159.70
<b>Multilateral Operations</b>	NA	NA	NA	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>				

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forest

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

Table 1(c)

ESP\_BR1\_v0.1

Emission trends (N<sub>2</sub>O)

(Sheet 1 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	4.97	5.23	5.48	5.54	6.22	6.87	7.09	7.78	8.24
A. Fuel Combustion (Sectoral Approach)	4.97	5.23	5.48	5.54	6.22	6.87	7.09	7.78	8.24
1. Energy Industries	0.89	0.99	1.22	1.25	1.46	1.78	1.66	1.87	1.82
2. Manufacturing Industries and Construction	1.35	1.40	1.32	1.27	1.40	1.51	1.40	1.59	1.61
3. Transport	1.70	1.77	1.88	1.98	2.30	2.54	2.98	3.26	3.73
4. Other Sectors	1.03	1.07	1.06	1.03	1.05	1.04	1.06	1.05	1.08
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
2. Oil and Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2. Industrial Processes</b>	9.04	7.52	6.48	5.27	6.32	6.92	7.12	6.83	6.34
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	9.03	7.51	6.47	5.27	6.32	6.92	7.12	6.82	6.34
C. Metal Production	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other Production									
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	1.35	1.63	1.93	2.15	2.33	2.45	2.52	2.55	2.42
<b>4. Agriculture</b>	65.41	65.08	61.89	56.95	63.07	60.34	69.96	66.41	70.47
A. Enteric Fermentation									
B. Manure Management	4.34	4.42	4.43	4.31	4.69	4.69	4.71	4.85	4.93
C. Rice Cultivation									
D. Agricultural Soils	60.67	60.27	57.09	52.26	58.00	55.29	64.86	61.15	65.16
E. Prescribed Burning of Savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field Burning of Agricultural Residues	0.40	0.38	0.37	0.37	0.37	0.36	0.40	0.42	0.37
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>5. Land Use, Land-Use Change and Forestry</b>	0.06	0.09	0.03	0.03	0.17	0.05	0.01	0.04	0.04
A. Forest Land	0.06	0.09	0.03	0.03	0.17	0.05	0.01	0.04	0.04
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
C. Grassland	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>6. Waste</b>	3.54	3.41	3.43	3.49	3.48	3.31	3.30	3.45	3.48
A. Solid Waste Disposal on Land	0.05	0.06	0.07	0.07	0.06	0.02	0.02	0.01	0.01
B. Waste-water Handling	3.46	3.33	3.33	3.39	3.39	3.27	3.26	3.42	3.45
C. Waste Incineration	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
D. Other	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total N2O emissions including N2O from LULUCF</b>	84.37	82.96	79.23	73.42	81.58	79.94	90.01	87.06	90.99
<b>Total N2O emissions excluding N2O from LULUCF</b>	84.31	82.87	79.20	73.39	81.41	79.90	90.00	87.02	90.95
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.48	0.50	0.52	0.49	0.47	0.50	0.63	0.73	0.79
Aviation	0.18	0.18	0.20	0.21	0.22	0.24	0.25	0.27	0.29
Marine	0.30	0.32	0.32	0.28	0.25	0.26	0.38	0.47	0.49
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO2 Emissions from Biomass</b>									

Note: All footnotes for this table are given on sheet 3.

Table 1(c)

ESP\_BR1\_v0.1

Emission trends (N<sub>2</sub>O)

(Sheet 2 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	9.09	9.38	8.12	8.34	8.40	8.50	8.72	8.58	8.70	8.45
A. Fuel Combustion (Sectoral Approach)	9.08	9.38	8.12	8.34	8.40	8.50	8.72	8.58	8.70	8.45
1. Energy Industries	2.08	2.01	2.12	2.26	2.16	2.25	2.40	2.28	2.35	2.34
2. Manufacturing Industries and Construction	1.69	1.76	1.88	1.96	2.07	2.13	2.16	2.13	2.08	1.95
3. Transport	4.21	4.49	2.99	2.97	2.99	2.92	2.95	3.00	3.09	2.98
4. Other Sectors	1.11	1.12	1.13	1.15	1.18	1.20	1.21	1.17	1.18	1.19
5. Other	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid Fuels	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
2. Oil and Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>2. Industrial Processes</b>	6.92	6.70	6.06	5.45	5.10	4.52	4.68	3.76	3.21	3.19
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	6.91	6.70	6.06	5.45	5.09	4.51	4.67	3.76	3.21	3.19
C. Metal Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other Production										
E. Production of Halocarbons and SF <sub>6</sub>										
F. Consumption of Halocarbons and SF <sub>6</sub>										
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>3. Solvent and Other Product Use</b>	2.29	2.24	2.43	2.22	1.91	1.65	2.13	2.69	2.50	2.48
<b>4. Agriculture</b>	72.89	76.85	73.13	69.77	75.73	71.77	65.73	67.65	69.93	60.91
A. Enteric Fermentation										
B. Manure Management	4.98	5.13	5.46	5.37	5.38	5.47	5.44	5.33	5.51	5.34
C. Rice Cultivation										
D. Agricultural Soils	67.56	71.44	67.43	64.22	70.09	66.09	60.13	62.11	64.21	55.38
E. Prescribed Burning of Savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field Burning of Agricultural Residues	0.35	0.28	0.24	0.18	0.27	0.22	0.16	0.21	0.22	0.20
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>5. Land Use, Land-Use Change and Forestry</b>	0.03	0.05	0.02	0.03	0.05	0.04	0.08	0.17	0.01	0.01
A. Forest Land	0.03	0.05	0.02	0.03	0.05	0.04	0.08	0.17	0.01	0.01
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
C. Grassland	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
D. Wetlands	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other Land	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>6. Waste</b>	3.50	3.49	3.57	3.69	3.73	3.77	3.81	3.80	3.95	4.02
A. Solid Waste Disposal on Land	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
B. Waste-water Handling	3.47	3.45	3.53	3.65	3.69	3.75	3.79	3.78	3.91	3.98
C. Waste Incineration	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.04	0.04
D. Other	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	0.00	0.00
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Total N<sub>2</sub>O emissions including N<sub>2</sub>O from LULUCF</b>	94.70	98.71	93.33	89.50	94.92	90.25	85.15	86.66	88.31	79.06
<b>Total N<sub>2</sub>O emissions excluding N<sub>2</sub>O from LULUCF</b>	94.68	98.66	93.31	89.47	94.87	90.21	85.08	86.49	88.30	79.05
<b>Memo Items:</b>										
<b>International Bunkers</b>	0.79	0.82	0.88	0.88	0.91	0.96	1.04	1.09	1.12	1.15
Aviation	0.30	0.33	0.33	0.31	0.33	0.37	0.39	0.41	0.43	0.43
Marine	0.48	0.49	0.55	0.56	0.57	0.59	0.65	0.68	0.69	0.72
<b>Multilateral Operations</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CO<sub>2</sub> Emissions from Biomass</b>										

Note: All footnotes for this table are given on sheet 3.

Table 1(c)

ESP\_BR1\_v0.1

**Emission trends (N<sub>2</sub>O)****(Sheet 3 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	7.81	7.66	7.57	52.38
A. Fuel Combustion (Sectoral Approach)	7.81	7.66	7.57	52.39
1. Energy Industries	2.16	1.90	1.93	116.56
2. Manufacturing Industries and Construction	1.71	1.78	1.77	31.28
3. Transport	2.77	2.77	2.73	60.11
4. Other Sectors	1.17	1.20	1.14	11.43
5. Other	IE, NA	IE, NA	IE, NA	0.00
B. Fugitive Emissions from Fuels	0.00	0.00	0.00	-29.35
1. Solid Fuels	NA, NE	NA, NE	NA, NE	0.00
2. Oil and Natural Gas	0.00	0.00	0.00	-29.35
<b>2. Industrial Processes</b>	2.89	1.63	0.84	-90.76
A. Mineral Products	NA	NA	NA	0.00
B. Chemical Industry	2.89	1.63	0.83	-90.77
C. Metal Production	0.00	0.00	0.00	-64.58
D. Other Production				
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NA	NA	NA	0.00
<b>3. Solvent and Other Product Use</b>	2.39	2.27	1.98	46.29
<b>4. Agriculture</b>	61.06	66.25	62.76	-4.05
A. Enteric Fermentation				
B. Manure Management	5.18	5.34	5.34	23.00
C. Rice Cultivation				
D. Agricultural Soils	55.65	60.68	57.19	-5.73
E. Prescribed Burning of Savannas	NO	NO	NO	0.00
F. Field Burning of Agricultural Residues	0.23	0.23	0.23	-42.17
G. Other	NA	NA	NA	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	0.02	0.02	0.02	-64.80
A. Forest Land	0.02	0.02	0.02	-64.80
B. Cropland	IE, NE, NO	IE, NE, NO	IE, NE, NO	0.00
C. Grassland	NE, NO	NE, NO	NE, NO	0.00
D. Wetlands	NE, NO	NE, NO	NE, NO	0.00
E. Settlements	NO	NO	NO	0.00
F. Other Land	NE, NO	NE, NO	NE, NO	0.00
G. Other	NA	NA	NA	0.00
<b>6. Waste</b>	4.04	4.05	4.06	14.69
A. Solid Waste Disposal on Land	0.00	0.00	0.00	-95.95
B. Waste-water Handling	4.01	4.03	4.04	16.66
C. Waste Incineration	0.03	0.03	0.03	-20.04
D. Other	0.00	0.00	0.00	100.00
<b>7. Other (as specified in the summary table in CRF)</b>	NA	NA	NA	0.00
<b>Total N2O emissions including N2O from LULUCF</b>	78.21	81.88	77.23	-8.46
<b>Total N2O emissions excluding N2O from LULUCF</b>	78.19	81.86	77.21	-8.43
<b>Memo Items:</b>				
<b>International Bunkers</b>	1.11	1.10	1.16	140.84
Aviation	0.40	0.41	0.45	146.52
Marine	0.72	0.69	0.71	137.33
<b>Multilateral Operations</b>	NA	NA	NA	0.00
<b>CO2 Emissions from Biomass</b>				

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and fore

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.



Table 1(d)

ESP\_BR1\_v0.1

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)****(Sheet 1 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	2,403.18	2,179.01	2,762.60	2,258.39	3,458.21	4,645.55	5,199.37	6,164.41	5,897.02
HFC-23	0.21	0.19	0.24	0.19	0.30	0.40	0.43	0.50	0.44
HFC-32	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-41	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-43-10mee	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-125	NA	NA	NA	NA	NA	NA	0.01	0.02	0.03
HFC-134	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-134a	NA	NA	NA	NA	NA	0.00	0.04	0.12	0.34
HFC-152a	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-143	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-143a	NA	NA	NA	NA	NA	NA	0.01	0.03	0.05
HFC-227ea	NA	NA	NA	0.00	0.00	0.00	0.00	0.00	0.01
HFC-236fa	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-245ca	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	882.92	827.43	789.91	830.79	818.88	832.52	800.60	828.21	782.65
CF <sub>4</sub>	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10
C <sub>2</sub> F <sub>6</sub>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
C <sub>3</sub> F <sub>8</sub>	NA	NA	NA	NA	NA	NA	0.00	0.00	0.00
C <sub>4</sub> F <sub>10</sub>	NA	NA	NA	NA	NA	0.00	0.00	0.00	0.00
c-C <sub>4</sub> F <sub>8</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA
C <sub>5</sub> F <sub>12</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA
C <sub>6</sub> F <sub>14</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	66.92	72.90	75.88	80.28	89.34	108.34	114.79	129.90	139.11
SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

**Note:** All footnotes for this table are given on sheet 3.

Table 1(d)

ESP\_BR1\_v0.1

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 2 of 3)

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	7,303.85	8,365.60	5,534.13	4,183.37	5,357.52	5,045.52	5,405.39	5,972.77	6,283.76	7,043.22
HFC-23	0.52	0.57	0.30	0.16	0.23	0.16	0.16	0.18	0.18	0.18
HFC-32	NA	NA	NA	0.00	0.01	0.01	0.02	0.02	0.02	0.02
HFC-41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-43-10mee	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-125	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.18	0.20	0.23
HFC-134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-134a	0.61	0.81	0.98	1.09	1.24	1.49	1.66	1.81	1.97	2.34
HFC-152a	NA	NA	NA	NA	0.18	0.19	0.17	0.11	0.09	0.08
HFC-143	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-143a	0.07	0.09	0.12	0.13	0.15	0.17	0.19	0.21	0.22	0.25
HFC-227ea	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.08	0.08
HFC-236fa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-245ca	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	722.83	436.03	268.94	297.48	304.59	312.73	288.15	294.10	298.17	314.84
CF <sub>4</sub>	0.09	0.05	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02
C <sub>2</sub> F <sub>6</sub>	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C <sub>3</sub> F <sub>8</sub>	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03
C <sub>2</sub> F <sub>10</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
c-C <sub>4</sub> F <sub>8</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C <sub>3</sub> F <sub>12</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C <sub>6</sub> F <sub>14</sub>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	175.36	204.60	182.79	207.13	207.66	254.00	271.57	352.11	368.20	366.08
SF <sub>6</sub>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02

Note: All footnotes for this table are given on sheet 3.

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**  
**(Sheet 3 of 3)**

CRF: Submission 2014 v1.4, SPAIN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	7,368.77	8,294.37	8,279.39	244.52
HFC-23	0.18	0.22	0.18	-10.89
HFC-32	0.01	0.02	0.02	100.00
HFC-41	NA	NA	NA	0.00
HFC-43-10mee	NA	NA	NA	0.00
HFC-125	0.25	0.27	0.28	100.00
HFC-134	NA	NA	NA	0.00
HFC-134a	2.48	2.71	2.94	100.00
HFC-152a	0.07	0.08	0.07	100.00
HFC-143	NA	NA	NA	0.00
HFC-143a	0.27	0.30	0.32	100.00
HFC-227ea	0.09	0.09	0.09	100.00
HFC-236fa	0.00	0.00	0.00	100.00
HFC-245ca	NA	NA	NA	0.00
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NA	NA	NA	0.00
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	297.27	303.69	313.45	-64.50
CF <sub>4</sub>	0.01	0.01	0.01	-92.87
C <sub>2</sub> F <sub>6</sub>	0.00	0.00	0.00	-93.41
C 3F8	0.03	0.03	0.04	100.00
C <sub>4</sub> F <sub>10</sub>	0.00	0.00	0.00	100.00
c-C <sub>4</sub> F <sub>8</sub>	NA	NA	NA	0.00
C <sub>5</sub> F <sub>12</sub>	NA	NA	NA	0.00
C <sub>6</sub> F <sub>14</sub>	NA	NA	NA	0.00
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA	NA	NA	0.00
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	362.93	378.57	394.35	489.29
SF <sub>6</sub>	0.02	0.02	0.02	489.29

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the Conference of the Parties. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

<sup>c</sup>Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO<sub>2</sub> equivalent emissions.

<sup>d</sup>In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories", HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is kt of CO<sub>2</sub> equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.)

**Description of quantified economy-wide emission reduction target: base year<sup>a</sup>**

<i>Party</i>	<i>Spain</i>	
Base year /base period	1990	
Emission reduction target	% of base year/base period	% of 1990 <sup>b</sup>
	20.00	
Period for reaching target	BY-2020	

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Optional.

*NOTE:* Las trayectorias jurídicamente vinculantes para el periodo 2013-2020 están integradas tanto en la Directiva del Sistema Europeo de Comercio de Derechos de Emisión (Directiva 2003/87/CE y sus enmiendas respectivas) y la Decisión de Reparto de Esfuerzos (Decisión 406/2009/CE). Estas trayectorias jurídicamente vinculantes no solo dan lugar a una reducción de las emisiones de gases de efecto invernadero del 20% en 2020 respecto a los niveles de 1990, sino que definen la senda de objetivos anuales de la Unión Europea para reducir las emisiones de gases de efecto invernadero de la UE entre 2013 y 2020. La Decisión de Reparto de Esfuerzo establece objetivos anuales de emisiones para todos los Estados Miembros para el periodo 2013-2020 para aquellos sectores no cubiertos por el Sistema Europeo de Comercio de Derechos de Emisión (ETS), expresado como una variación porcentual respecto a los niveles de 2005. En marzo de 2013, la Comisión adoptó de manera formal los límites nacionales anuales del periodo para cada Estado Miembro. En 2020, los objetivos nacionales supondrán, de manera conjunta, una reducción de alrededor del 10% de las emisiones totales de la Unión Euro. El objetivo indicado corresponde al conjunto de la Unión Europea.

## Description of quantified economy-wide emission reduction

<i>Gases covered</i>		<i>Base year for each gas (year):</i>	<i>Comments</i>
CO <sub>2</sub>		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
CH <sub>4</sub>		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
N <sub>2</sub> O		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
HFCs		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
PFCs		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
SF <sub>6</sub>		1990	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
NF <sub>3</sub>		1995/2000	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
Other Gases (specify)			
Sectors covered <sup>b</sup>	Energy	Yes	
	Transport <sup>f</sup>	Yes	
	Industrial processes <sup>g</sup>	Yes	
	Agriculture	Yes	
	LULUCF	Yes	
	Waste	Yes	
	Other Sectors (specify)		
Aviación en el ámbito del EU ETS	Yes	Las emisiones de CO <sub>2</sub> de todos los vuelos incluidos dentro de las actividades de aviación contenidas en el Anexo I de la Directiva del Sistema Europeo de Comercio de Derechos de Emisión, que despeguen de un aeropuerto situado en el territorio de un Estado Miembro y aquellos que aterricen en dicho aeropuerto desde un país tercero, excluyendo los pequeños emisores comerciales.	

*Abbreviations* : LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> More than one selection will be allowed. If Parties use sectors other than those indicated above, the explanation of how these sectors relate to the sectors defined by the IPCC should be provided.

<sup>f</sup> Transport is reported as a subsector of the energy sector.

<sup>g</sup> Industrial processes refer to the industrial processes and solvent and other product use sectors.

**Description of quantified economy-wide**

<i>Gases</i>	<i>GWP values<sup>b</sup></i>	<i>Comments</i>
CO <sub>2</sub>	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
CH <sub>4</sub>	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
N <sub>2</sub> O	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
HFCs	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
PFCs	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
SF <sub>6</sub>	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
NF <sub>3</sub>	4nd AR	Tal y como se ha adoptado en las directrices de reporting de la Convención Marco de Naciones Unidas sobre el Cambio Climático para los inventarios nacionales de gases de efecto invernadero de los países Anexo I, y tal y como se ha adoptado en el ámbito del Reglamento Europeo del Mecanismo de Seguimiento
Other Gases (specify)		

*Abbreviations* : GWP = global warming potential

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Please specify the reference for the GWP: Second Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) or the Fourth Assessment Report of the IPCC.

**Description of quantified economy-wide emission reduction target: approach to counting emissions and removals from the LULUCF sector<sup>a</sup>**

<b>Role of LULUCF</b>	LULUCF in base year level and target	Excluded
	Contribution of LULUCF is calculated using	

*Abbreviation* : LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

**Description of quantified economy-wide emission reduction target: market-based mechanisms under the Convention<sup>a</sup>**

<i>Market-based mechanisms under the Convention</i>	<i>Possible scale of contributions (estimated kt CO<sub>2</sub> eq)</i>	<i>Comments</i>
		El Paquete de Energía y Cambio Climático permite utilizar para cumplimiento Reducciones Certificadas de Emisiones (RCE) y Unidades de Reducción de Emisiones (URE), sujeto a una serie de restricciones. Además, la legislación prevé la posibilidad de reconocimiento de las unidades procedentes de los nuevos mecanismos de mercado, siempre que se cumplan las disposiciones jurídicas necesarias para crear este tipo de unidades. En el Sistema Europeo de Comercio de Derechos de Emisión (EU ETS), el límite de utilización de estos créditos es de hasta el 50% de la reducción requerida bajo los niveles de 2005. En lo que respecta a la cuota de los sectores no cubiertos por ETS (sectores difusos), todos los Estados Miembros pueden utilizar créditos de mecanismos hasta alcanzar la cantidad correspondiente al 3% de sus emisiones en el año 2005. Un número limitado de Estados Miembros, entre ellos España, puede usar un 1% adicional, a partir de proyectos en países menos adelantados o pequeños estados insulares
CERs		El número exacto de unidades que se pueden utilizar durante el período 2013-2020 sólo se puede determinar después de la disponibilidad de datos definitivos sobre el uso de estas unidades durante el período 2008-2012 y los datos de emisiones de gases de efecto invernadero pertinentes. El uso de estas unidades en la Directiva ETS y la Decisión de Reparto de Esfuerzo está sujeto a los límites especificados anteriormente y en donde no se hace distinción entre RCE y URE. En cualquier caso se incluyen criterios adicionales para la utilización de RCE.
ERUs		El número exacto de unidades que se pueden utilizar durante el período 2013-2020 sólo se puede determinar después de la disponibilidad de datos definitivos sobre el uso de estas unidades durante el período 2008-2012 y los datos de emisiones de gases de efecto invernadero pertinentes. El uso de estas unidades en la Directiva ETS y la Decisión de Reparto de Esfuerzo (EDS) está sujeto a los límites especificados anteriormente y en donde no se hace distinción entre RCE y URE. En cualquier caso se incluyen criterios adicionales para la utilización de UREs
AAUs <sup>i</sup>		Las UCAs para el período 2013-2020 aún no se han determinado. La UE espera alcanzar su objetivo del 20% para el período 2013-2020 con la aplicación de la Directiva ETS y la Decisión EDS en los sectores difusos, ninguna de estas disposiciones permiten el uso de UCAs de Partes que no son de la Unión Europea.
Carry-over units <sup>d</sup>		El número exacto de unidades de arrastre del primer período de compromiso, para la UE y sus Estados Miembros, que se pueden utilizar para el cumplimiento durante el período 2013-2020, sólo se puede determinar después del período adicional para el cumplimiento de compromisos del primer período de compromiso (true up period). En el segundo período de compromiso, el uso de esas unidades, que se encontrarán en la cuenta de reserva de unidades excedentes del período de compromiso anterior (PPSR), dependerá de hasta que punto excedan las emisiones a la cantidad asignada para el segundo período de compromiso. Este hecho sólo se puede determinar al final del segundo período de compromiso. En la CMP.8 la UE hizo una declaración al adoptar la enmienda de Doha del Protocolo de Kioto por las que confirmaba que la legislación de la Unión Europea para el cumplimiento de sus objetivos de reducción de emisiones para el período 2013-2020, el Paquete de Energía y Cambio Climático, no permite el uso de las UCA excedentes arrastrados del primer período de compromiso para cumplir con estos objetivos.
Other mechanism units under the Convention (specify) <sup>d</sup>		Hay disposiciones generales vigentes en la legislación de la UE que permiten el uso de estas unidades, siempre que se lleve a cabo un desarrollo legislativo de las mismas. En la fecha de elaboración de este informe dicho desarrollo legislativo no se ha producido.
<b>Possible scale of contributions of other market-based mechanisms (estimated kt CO<sub>2</sub> eq)</b>		Hay disposiciones generales vigentes en la legislación de la UE que permiten el uso de estas unidades, siempre que se lleve a cabo un desarrollo legislativo de las mismas. En la fecha de elaboración de este informe dicho desarrollo legislativo no se ha producido.
<b>Any other information:</b>		En diciembre de 2009, el Consejo Europeo reiteró la oferta condicional de la UE para pasar a un objetivo de reducción del 30% en 2020 con respecto a los niveles de 1990 como parte de un acuerdo intencional y completo para el período post 2012, siempre que otros países desarrollados se comprometan a una reducción de las emisiones comparable y que los países en desarrollo contribuyan adecuadamente en función de sus responsabilidades y capacidades respectivas.

*Abbreviations:* AAU = assigned amount unit, CER = certified emission reduction, ERU = emission reduction unit.

<sup>a</sup> Reporting by a developed country Party on the information

<sup>d</sup> As indicated in paragraph 5(e) of the guidelines contained in

<sup>i</sup> AAUs issued to or purchased by a Party.

<sup>j</sup> Units carried over from the first to the second commitment periods of the Kyoto Protocol, as described in decision 13/CMP.1 and consistent with decision XX/CMP.8.



**Description of quantified economy-wide emission reduction target: other market-based mechanisms<sup>a</sup>**

<i>Other market-based mechanisms (Specify)</i>	<i>Possible scale of contributions (estimated kt CO<sub>2</sub> eq)</i>

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

**Description of quantified economy-wide emission reduction target: any other information**<sup>a,b</sup>

En diciembre de 2009, el Consejo Europeo reiteró la oferta condicional de la UE para pasar a un objetivo de reducción del 30% en 2020 con respecto a los niveles de 1990 como parte de un acuerdo intencional y completo para el periodo post 2012, siempre que otros países desarrollados se comprometan a una reducción de las emisiones comparable y que los países en desarrollo contribuyan adecuadamente en función de sus responsabilidades y capacidades respectivas.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> This information could include information on the domestic legal status of the target or the total assigned amount of emission units for the period for reaching a target. Some of this information is presented in the narrative part of the biennial report.

**Custom Footnotes**

Table 3

ESP\_BR1\_v0.1

## Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Régimen Europeo de Comercio de derechos de emisión	Energy, Transport, Industry/industrial processes	CO <sub>2</sub> , N <sub>2</sub> O, PFCs	Alcanzar en 2020 una reducción de las emisiones ETS del 21% respecto a los niveles de 2005	Regulatory	Adopted	Instalaciones pertenecientes a sectores intensivos en emisiones de GEI contribuyen a la reducción de las emisiones de manera coste eficiente. Para ello las instalaciones tienen que entregar derechos de emisión para cubrir sus emisiones.	2005	MAGRAMA MITYC MINECO CC.AA.	IE	IE
Exclusión pequeñas instalaciones	Energy, Industry/industrial processes	CO <sub>2</sub> , N <sub>2</sub> O, PFCs	Exclusión de instalaciones con la aplicación de medidas equivalentes al ETS con una reducción superior al 21% respecto a los niveles de 2005	Regulatory	Adopted	Se establece un régimen alternativo al régimen de comercio de derechos de emisión con menor carga administrativa, al que puedan acogerse las pequeñas instalaciones y hospitales.	2013	CC.AA.	IE	IE
Incorporación del tráfico aéreo en el régimen de comercio de derechos de emisión	Transport	CO <sub>2</sub>	Inclusión de las emisiones de CO <sub>2</sub> de la aviación en el régimen comunitario de comercio de derechos de emisión (ETS)	Regulatory	Adopted	ETS es un instrumento económico europeo para el seguimiento y limitación de las emisiones nacionales de gases de efecto invernadero con mecanismos económicos (incentivos-penalización) dirigidos a las empresas de los sectores cubiertos por dicho régimen. La inclusión del tráfico aéreo en ETS a partir del 1 de enero de 2012 obliga a los operadores de aeronaves que realicen vuelos con origen o destino un aeropuerto nacional.	2012	MAGRAMA MINETUR CC.AA.	4.00	9.00
Financiación de proyectos de demostración. Programa NER300	Energy	CO <sub>2</sub> , N <sub>2</sub> O, PFCs	Fomento de la construcción de proyectos de captura y almacenamiento geológico de CO <sub>2</sub> y de tecnologías innovadoras de energía renovable en el territorio de la UE.	Research	Planned	Se trata de un programa de demostración consistente en la selección y financiación, a partir de los ingresos obtenidos de la monetización de 300 millones de derechos de emisión de parte de los costes de inversión de hasta 12 proyectos comerciales de demostración.	2013	COM	NE	NE
Utilización de los Mecanismos de Flexibilidad del Protocolo de Kioto	Cross-cutting	CO <sub>2</sub>	Obtención de unidades de reducción de emisiones para facilitar el cumplimiento del Protocolo de Kioto	Other (Economic)	Adopted				896.00	896.00
Creación de la Autoridad ANcional Designada					Adopted					
Fondo de Carbono-FES-CO <sub>2</sub>					Adopted				NE	NE
Prevención y Control Integrados de la Contaminación					Implemented				IE	IE

Table 3

ESP\_BR1\_v0.1

## Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Efectos combinados de políticas horizontales (IPCC, GIC, comercio de derechos GEI y políticas sectoriales del gas y la electricidad) sobre la actividad de generación de energía eléctrica	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	No es una medida en sí misma, sino la integración de los efectos de una serie de políticas con efectos sinérgicos significativos	Regulatory	Adopted	Integración a efectos de valoración de una serie de políticas horizontales con efectos sinérgicos entre sí. Las principales medidas que integra son la normativa sobre prevención y control integrados de la contaminación, normativa sobre Grandes Instalaciones de Combustión, el mecanismo de comercio de derechos de emisión de GEI y las políticas sectoriales de liberación de los sectores de la electricidad y el gas	2001	MAGRAMA MINETUR CC.AA.	18,008.00	20,497.00
Efectos combinados de políticas horizontales (IPCC, GIC, comercio de derechos GEI y políticas sectoriales) sobre otras actividades de transformación de la energía	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	No es una medida en sí misma, sino la integración de los efectos de una serie de políticas con efectos sinérgicos significativos	Regulatory	Adopted	Integración a efectos de valoración de una serie de políticas horizontales con efectos sinérgicos entre sí. Las principales medidas que integra son la normativa sobre prevención y control integrados de la contaminación, normativa sobre Grandes Instalaciones de Combustión, el mecanismo de comercio de derechos de emisión de GEI y las políticas sectoriales en otras actividades de transformación de la energía	2001	MAGRAMA MINETUR CC.AA.	968.00	1,123.00
Calidad del aire y protección de la atmósfera /PRTR	Cross-cutting	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Prevención, vigilancia y reducción de la contaminación atmosférica	Regulatory	Adopted	Cumplimiento de la normativa europea sobre calidad del aire y registro	2005	MAGRAMA	NA	NA
Hoja de Ruta Sectores Difusos 2020	Transport, Agriculture, Forestry/LULUCF, Waste management/waste	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducción de las emisiones no ets hasta el 10% respecto a 2005	Regulatory	Planned	Marco para el cumplimiento de los objetivos 2020 en sectores no ETS	2014	MAGRAMA	NA	NA
Huella de Carbono	Cross-cutting				Adopted			MAGRAMA	NA	NA
Planificación de los sectores de la electricidad y gas 2008-2016	Energy	CO <sub>2</sub>	Infraestructuras para fomentar la generación eléctrica mediante tecnologías limpias	Regulatory	Adopted	Estructura de generación hasta 2016	2008	MITYC	IE	IE
Estrategia de Ahorro y Eficiencia Energética en España 2004-2012 y Planes de Acción asociados	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O			Adopted				IE	IE
Fomento de la cogeneración. Mejora de eficiencia en la generación eléctrica	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Disminuir el consumo de recursos fósiles mediante una mejor eficiencia energética, produciendo conjuntamente electricidad y energía térmica, y limitando las pérdidas por transporte de energía eléctrica por producción distribuida.		Adopted	Sistema de primas económicas mediante la inclusión en régimen especial. Fomento de la cogeneración de alta eficiencia.			317.00	435.00

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ESP\_BR1\_v0.1

## Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Medidas de ahorro del consumo de electricidad	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	El objetivo de las medidas de ahorro energético que influyen sobre la demanda de electricidad es reducir el consumo de energía primaria y las emisiones asociadas a la generación eléctrica		Adopted	Reducción de la necesidad de generación de energía eléctrica asociada al conjunto de medidas de ahorro de la demanda de energía eléctrica en los sectores consumidores			10,336.00	15,558.00
Fondo de Inversión en Diversificación y Ahorro de Energía – F.I.D.A.E	Energy	CO <sub>2</sub>	Fomento de eficiencia energética y energías renovables a través de Empresas de Servicios Energéticos	Economic	Adopted	Financiación de proyectos urbanos de eficiencia energética y de uso de las energías renovables que sean desarrollados por Empresas de Servicios Energéticos u otras empresas privadas	2007	MITYC	IE	IE
Plan de Energías Renovables 2005-2010	Energy	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O			Adopted				20,900.00	21,773.00
Plan de Acción de Ahorro y Eficiencia 2011-2020	Energy	CO <sub>2</sub>	Mejorar los índices de eficiencia energética de diversos sectores, con el objetivo de mejora de la intensidad final del 2% interanual en el período 2010-2020.	Other (Information)	Adopted	El Plan presenta un conjunto de medidas y actuaciones con el objetivo ahorro de energía final en el año 2020 de 17.842 ktep y de energía primaria de 35.585 ktep	2011	MITYC	IE	IE
Plan de Energías Renovables (PER) 2011-2020	Energy	CO <sub>2</sub>	Fomento de las energías renovables en el balance nacional acorde con los objetivos europeos	Economic	Adopted	El PER 2011-2020 incluye un paquete de más de 80 medidas, medidas horizontales y el resto sectoriales, con el objetivo un consumo de energías renovables del 20,8% sobre el consumo de energía final bruto, así como un consumo final de las mismas del 11,3% sobre el consumo de energía en el transporte	2011	MITYC	IE	IE
Planificación de los Sectores de Electricidad y Gas 2014-2020	Energy	CO <sub>2</sub>	Infraestructuras para fomentar la generación eléctrica mediante tecnologías limpias	Regulatory	Planned	Transformación del sistema energético español de cara al cumplimiento de los objetivos a 2020 en materia de eficiencia energética, energías renovables y medio ambiente	2014	MITYC	NE	NE
Retirada progresiva de ayudas al carbón nacional	Energy	CH <sub>4</sub>	Actuación derivada de condicionantes de la UE sobre libre competencia, que incide en disminuir las emisiones de CH <sub>4</sub> de la actividad de extracción de carbón.		Adopted	Cierre de las unidades de producción cuyo coste de explotación sea superior a 120 €/TEC en minería subterránea y 90 €/TEC en cielo abierto. Los criterios de reducción serán los costes de explotación y las razones sociales y territoriales.			643.00	863.00
Prevención y Control Integrados de la Contaminación	Industry/industrial processes	CO <sub>2</sub> , CH <sub>4</sub> , HFCs	Integración de autorizaciones ambientales para industrial	Regulatory	Adopted	Define la autorización ambiental integrada que fija condiciones para todos los aspectos ambientales de una actividad industrial	2002	MAGRAMA	IE	IE

Table 3

ESP\_BR1\_v0.1

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									2015	2020
Efectos combinados de políticas horizontales (IPCC, GIC, comercio de derechos GEI y políticas sectoriales) sobre la combustión en actividades industriales	Industry/industrial processes	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	No es una medida en sí misma, sino la integración de los efectos de una serie de políticas con efectos sinérgicos significativos		Adopted	Prevención integrada de la contaminación, con efectos directos sobre las emisiones de diversos contaminantes atmosféricos, y de GEI principalmente derivado de la sustitución de combustibles, de la mejora de la eficiencia energética y los procesos	2001	MAGRAMA MINETUR CC.AA.	4,787.00	6,148.00
Efectos combinados de políticas horizontales (IPCC, comercio de derechos GEI y políticas sectoriales) sobre los procesos de actividades industriales	Industry/industrial processes	CO <sub>2</sub> , CH <sub>4</sub> , PFCs	No es una medida en sí misma, sino la integración de los efectos de una serie de políticas con efectos sinérgicos significativos		Adopted	Integración a efectos de valoración de una serie de políticas horizontales con efectos sinérgicos entre sí. Las principales medidas que integran son la normativa sobre IPPC, GIC, el mecanismo de comercio de derechos de emisión de GEI y las políticas sectoriales sobre los procesos de actividades industriales	2001	MAGRAMA MINETUR CC.AA.	770.00	965.00
Comercialización y manipulación de los gases fluorados I (producción)	Industry/industrial processes	HFCs	Prohibición de emitir HFCs durante el proceso de producción de compuestos fluorados.	Regulatory	Adopted	Queda prohibida cualquier emisión a la atmósfera no fugitiva de todo fluido de GWP mayor que 150 o PAO mayor de 0,001	2013	MAGRAMA	880.00	880.00
Comercialización y manipulación de los gases fluorados II (uso)	Industry/industrial processes	HFCs	Reducir emisiones de GEI mediante el control y la restricción de uso de gases fluorados en equipos que utilizan este tipo de gases para su funcionamiento.	Regulatory	Adopted	Control y restricciones en la instalación, mantenimiento y uso de gases fluorados en equipos que utilizan este tipo de gases para su funcionamiento.	2009	MAGRAMA	-3,464.00	-6,154.00
Acuerdos voluntarios	Industry/industrial processes	PFCs, SF <sub>6</sub>	Reducir emisiones de GEI por gases fluorados de actividades industriales: perfluorados en fabricación de aluminio y SF <sub>6</sub> en transporte y distribución de energía eléctrica	Voluntary Agreement	Adopted	Definir actuaciones de reducción de emisiones de GEI en ciertas actividades industriales que provocan emisiones de gases fluorados	2008	MAGRAMA	896.00	896.00
Implantación de tecnologías para el control de emisiones en la maquinaria móvil diésel no de carretera	Industry/industrial processes	CH <sub>4</sub>		Regulatory	Adopted		2006		0.14	0.23
Estrategia Española de Movilidad Sostenible	Transport	CO <sub>2</sub>	Conseguir una movilidad más sostenible	Other (Planning)	Adopted	Establecer medidas y directrices para una movilidad más sostenible	2009	MAGRAMA	NA	NA
Plan Estratégico de Infraestructuras y Transporte (PEIT)	Transport	CO <sub>2</sub>	Mejorar la eficiencia del infraestructuras de transporte	Other (Planning)	Adopted	Define directrices básicas en infraestructuras del transporte	2005	MFOM	IE	IE

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ESP\_BR1\_v0.1

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									2015	2020
Plan Estratégico de Infraestructuras, Transporte y Vivienda (PITVI)	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Mejorar la eficiencia del infraestructuras de transporte	Other (Planning)	Adopted	Definir directrices básicas en infraestructuras del transporte	2012	MFOM	359.00	1,448.00
Plan de Ahorro, Eficiencia Energética y Reducción de Gases de Efecto Invernadero en el Transporte y la Vivienda	Transport	CO <sub>2</sub>	Mejorar la eficiencia de transportes y edificios	Other (Planning)	Adopted	Definir medidas de eficiencia en transporte y edificios	2011	MFOM	NA	NA
Medidas de Eficiencia Energética en carreteras	Transport	CO <sub>2</sub>	Consideración de Huellas energética y de Carbono en el diseño de carreteras	Other (Planning)	Planned	Herramienta de cálculo de huella energética de la construcción y explotación de carreteras	2013	MAGRAMA	NA	NA
Plan Estratégico para el Impulso del Transporte Ferroviario de Mercancías en España	Transport	CO <sub>2</sub>	Aumentar la cuota del ferrocarril en transporte de mercancías	Other (Planning)	Adopted	Definir medidas para trasvase modal al ferrocarril en transporte de mercancías	2011	MFOM	IE	IE
Plan de Sostenibilidad Energética 2011-2020 de RENFE	Transport	CO <sub>2</sub>	Aumentar la eficiencia y productividad del modo ferroviario	Other (Planning)	Adopted	Definir actuaciones en el transporte de pasajeros y mercancías en ferrocarril para mejorar su eficiencia	2011	MFOM	NE	NE
Medidas de eficiencia y reducción de emisiones en aeropuertos y navegación aérea	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir emisiones de GEI de aeropuertos y tráfico aéreo	Other (Planning)	Adopted	Definir actuaciones de reducción de emisiones de GEI en las instalaciones aeroportuarias y en operaciones de tráfico aéreo	2011	MFOM	186.00	266.00
Medidas de eficiencia y reducción de emisiones en aeropuertos y navegación aérea	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir emisiones de GEI de aeropuertos y tráfico aéreo	Other (Planning)	Adopted	Definir actuaciones de reducción de emisiones de GEI en las instalaciones aeroportuarias y en operaciones de tráfico aéreo	2009	MFOM	129.00	153.00
Introducción de biocombustibles en el transporte por carretera	Transport	CO <sub>2</sub>	Reducir emisiones de GEI en transporte sustituyendo combustibles fósiles por biocombustibles	Other (Planning)	Adopted	Definir objetivos de penetración de biocombustibles en el transporte	2011	MITYC	7,071.00	10,178.00
Fomento del uso de Biocarburantes en la aviación	Transport	CO <sub>2</sub>	Reducir emisiones de GEI en aviación mediante la sustitución de queroseno por bioqueroseno	Other (Planning)	Adopted	Acuerdo de colaboración para favorecer la introducción de bioqueroseno como combustible del tráfico aéreo	2011	MFOM MAGRAMA MITYC IDAE	11.00	120.00
Autopistas del Mar	Transport	CO <sub>2</sub>	Favocer el trasvase modal al modo marítimo en el transporte internacional de mercancías	Other (Planning)	Adopted	Definir líneas de transporte internacional de mercancías que se integren en las autopistas del mar		MFOM	IE	IE
Medidas de eficiencia energética en puertos	Transport	CO <sub>2</sub>	Reducción de emisiones de GEI en los puertos	Other (Planning)	Adopted	Definir medidas para uso eficiente de recursos en los puertos		MFOM	NE	NE
Medidas de eficiencia energética en carreteras	Transport	CO <sub>2</sub>	Mejorar la eficiencia energética de las carreteras	Other (Planning)	Adopted	Definir medidas de eficiencia energética en los equipamientos y la operación de las carreteras		MFOM	NE	NE

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ESP\_BR1\_v0.1

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Estrategia Integral para el Impulso del Vehículo Eléctrico en España	Transport	CO <sub>2</sub>	Introducción del vehículo eléctrico	Other (Planning)	Adopted	Definir medidas para favorecer la penetración del vehículo eléctrico	2010	MITYC	NE	NE
Programa de Incentivos al Vehículo Eficiente (PIVE I y II)	Transport	CO <sub>2</sub>	Renovación del parque de vehículos ligeros viejos por vehículos ligeros nuevos eficientes	Economic	Adopted	Ayudas para la adquisición de vehículos ligeros nuevos y eficientes y achatarramiento de vehículos viejos	2012	MTYC	NE	NE
Plan PIMA - Aire	Transport	CO <sub>2</sub>	Renovación de los vehículos comerciales ligeros viejos por vehículos comerciales ligeros nuevos y eficientes	Economic	Adopted	Ayudas para la adquisición de vehículos comerciales ligeros nuevos y eficientes y achatarramiento de vehículos comerciales viejos	2013	MAGRAMA	NE	NE
Cursos de conducción eficiente en el transporte por carretera	Transport	CO <sub>2</sub>	Reducción de emisiones de GEI en transporte por carretera por medio de la conducción eficiente	Other (Information)	Adopted	Impartición de cursos entre conductores sobre conducción eficiente en el transporte por carretera	2005	IDAE	NA	NA
Criterios de eficiencia energética en las subvenciones al transporte colectivo de viajeros	Transport				Adopted				NA	NA
Plan Nacional de Calidad del Aire y Protección de la Atmósfera 2013-2016- Plan Aire.	Transport	CO <sub>2</sub>	Disminución de la contaminación atmosférica: NO <sub>2</sub> y PM	Other (Planning)	Planned	Definir medidas en distintos sectores con el fin de reducir los niveles de contaminantes atmosféricos	2013	MAGRAMA	NA	NA
Vale transporte	Transport	CO <sub>2</sub>	Favorecer el trasvase modal de pasajeros en los desplazamientos del domicilio al trabajo	Economic	Adopted	Exención fiscal en el Impuesto de la Renta de las Personas Físicas de cantidades satisfechas a trabajadores en transporte colectivo	2010	MEH	NA	NA
Impuesto de matriculación	Transport	CO <sub>2</sub>	Favorecer la compra de vehículos con menores emisiones de CO <sub>2</sub>	Economic	Adopted	Menores tipos impositivos para aquellos vehículos nuevos con menores niveles de emisión de CO <sub>2</sub>	2007	MEH	NA	NA
Impuesto de sociedades	Transport	CO <sub>2</sub>	Favorecer el trasvase modal del vehículo privado hacia modos más sostenibles en desplazamientos de trabajadores	Economic	Planned	Exenciones en el impuesto de sociedades de aquellas empresas que realicen Planes Empresariales de Movilidad		MEH	NA	NA
Reglamento para la limitación de las emisiones de CO <sub>2</sub> en los turismos nuevos	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O			Adopted				712.00	2,295.00
Reglamento para la limitación de las emisiones de CO <sub>2</sub> en los vehículos comerciales ligeros nuevos	Transport	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O			Adopted				0.37	4.00



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ESP\_BR1\_v0.1

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									2015	2020
Implantación de nuevas tecnologías para el control de emisiones en los vehículos ligeros de carretera	Transport	N <sub>2</sub> O			Adopted				22.00	17.00
Implantación de nuevas tecnologías para el control de emisiones en los vehículos pesados de carretera	Transport	CO <sub>2</sub>			Adopted				6.00	23.00
Implantación de nuevas tecnologías para el control de emisiones en motocicletas y ciclomotores	Transport	CO <sub>2</sub> , CH <sub>4</sub>			Adopted				108.00	126.00
Penetración de modelos de aeronaves más eficientes	Transport	CO <sub>2</sub> , N <sub>2</sub> O			Adopted		2011		252.00	615.00
Plan Estatal de Vivienda y Rehabilitación y Plan estatal de fomento del Alquiler, la rehabilitación edificatoria, la regeneración y renovación urbanas(2013-2016)	Other (RCI)	CO <sub>2</sub>	Reducir las emisiones de CO2 en ESD, Mejorando la eficiencia energética de las viviendas	Economic	Adopted	Estblece las subenciones para mejora de la envolvente térmica, los sistemas de calefacción, refrigeración y ACS, instalación de energías renovables y de eficiencia energética de los edificios destinados a vivienda	2013	MFOM	IE	IE
Ley 8/2013, de Rehabilitación, regeneración y renovación urbanas	Other (RCI)	CO <sub>2</sub>	Eliminar barreras para la mejora de la eficiencia energética de los edificios	Regulatory	Adopted	Modifica la Ley de propiedad horizontal, la Ley del Suelo y la Ley de Ordenación de la edificación para facilitar la aprobación de proyectos de rehabilitación energética de edificios y regeneración urbana. Se exige la certificación energética de los edificios	2013	MFOM	IE	IE
Código Técnico de la Edificación	Other (RCI)	CO <sub>2</sub>	Aumentar las exigencias mínimas en eficiencia energética y de incorporación de ER en los edificios	Regulatory	Adopted	Se actualiza el CTE, y se introducen mayores exigencias en eficiencia energética e incorporación de energías renovables	2013	MFOM	IE	IE
Reglamento de las Instalaciones Térmicas de los Edificios	Other (RCI)	CO <sub>2</sub>	Aumentar las exigencias mínimas en eficiencia energética de las instalaciones térmicas y de climatización en los edificios	Regulatory	Adopted	Se actualiza el RITE aumentando las exigencias mínimas en eficiencia energética de las instalaciones térmicas y de climatización en los edificios	2013	MINETUR	IE	IE
Certificación Energética de Edificios Nuevos y Existentes	Other (RCI)	CO <sub>2</sub>	Se regula el sistema de certificación energética para edificios nuevos y existentes	Regulatory	Adopted	Este instrumento permite cuantificar la situación y mejora energética de los edificios y viviendas.	2013	MFOM MINETUR	IE	IE

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ESP\_BR1\_v0.1

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									2015	2020
Plan de Impulso al Medio Ambiente PIMA Sol	Other (RCI)	CO <sub>2</sub>	Estimular la rehabilitación energética de las instalaciones hoteleras	Economic	Adopted	El Plan PIMA SOL establece el procedimiento de adquisición, por parte del fondo de carbono, del las reducciones de emisiones de CO <sub>2</sub> directas que logren las instalaciones hoteleras por inversiones en rehabilitación energética	2013	MAGRAMA	IE	IE
Programa de ayudas para la rehabilitación energética de edificios existentes en el sector residencial (viviendas y hoteles)	Other (RCI)	CO <sub>2</sub>	Mejorar la eficiencia energética y utilización de energías renovables en edificios de viviendas y hoteles	Economic	Adopted	Establece las subvenciones para mejora de la envolvente térmica, instalaciones térmicas y de iluminación, utilización de biomasa y geotermia, mejorando la certificación energética de los edificios destinados a vivienda y a hoteles	2013	MINETUR, IDAE	IE	IE
Planes de Renovación de Instalaciones Turísticas	Other (RCI)	CO <sub>2</sub>	Mejora de la sostenibilidad de establecimientos turísticos	Economic	Adopted	Mejora de la sostenibilidad de establecimientos turísticos	2009	MINETUR	IE	IE
Fondo Financiero del Estado para la Modernización de las Infraestructuras Turística	Other (RCI)	CO <sub>2</sub>	Fomento de la recuperación ambiental y paisajística en destinos turísticos maduros, a través de inversiones públicas de Entidades locales	Economic	Adopted	Mejora de la sostenibilidad de establecimientos turísticos	2005	MINETUR	IE	IE
Efectos de las políticas horizontales sobre el consumo de energía térmica en sector RC&I (incluye mejora de la eficiencia energética)	Other (RCI)	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir las pérdidas energéticas de los edificios y mejorar la eficiencia energética de las instalaciones térmicas, y de esta forma disminuir el consumo de combustibles fósiles		Adopted	Fomentar el empleo de aislantes térmicos y materiales con mejores propiedades en edificios, así como la utilización de instalaciones térmicas con elevada eficiencia energética			5,858.00	7,315.00
Plan de Biogestión de Purines	Agriculture	CH <sub>4</sub>	Reducir las emisiones del sector agrario	Regulatory	Adopted	Reducir las emisiones derivadas de los purines de porcino.	2009	MAGRAMA	77.00	77.00
Plan de Reducción del Uso de Fertilizantes Nitrogenados	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Reducción del empleo de fertilizantes	2007	MAGRAMA	NA	NA
Programas de acción en zonas vulnerables a la contaminación por nitratos	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Reducción del empleo de fertilizantes	1997	MAGRAMA	NE	NE
Programa de Eliminación de quema de rastrojos	Agriculture	CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Reducir las emisiones derivadas de la quema de rastrojos	2004	MAGRAMA	11.00	11.00
Fomento de los Códigos de Buenas Prácticas Agrarias para la racionalización de la fertilización	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario		Adopted	Reducción del empleo de fertilizantes	1997	MAGRAMA	NE	NE
Plan de Renovación del Parque Nacional de Maquinaria Agrícola	Agriculture	CO <sub>2</sub>	Reducir las emisiones del sector agrario	Regulatory	Adopted	Sustitución de maquinaria obsoleta con la consiguiente reducción de emisiones	2010	MAGRAMA	NE	NE

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ESP\_BR1\_v0.1

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									2015	2020
Programa Nacional para el Fomento de Rotaciones de Cultivo en Tierras de Secano	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Reducir el monocultivo de cereal mejorando la fertilidad del suelo y reduciendo las emisiones de los suelos agrícolas	2009	MAGRAMA	NE	NE
Plan Estratégico para la Producción Ecológica	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Programa Nacional para el Fomento de Rotaciones de Cultivo en Tierras de Secano	2009	MAGRAMA	NE	NE
Marco Nacional de Desarrollo Rural	Agriculture	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones del sector agrario	Regulatory	Adopted	Garantiza la coherencia de la Estrategia Española de Desarrollo Rural	2007	MAGRAMA	NA	NA
Balance anual del nitrógeno en la agricultura española	Agriculture	N <sub>2</sub> O	Reducir las emisiones del sector agrario	Information	Adopted	Realiza un seguimiento de las entradas y salidas de nitrógeno en los sistemas agrarios	1998	MAGRAMA	NA	NA
Evaluación integrada de explotaciones ganaderas	Agriculture	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones del sector agrario	Information	Adopted	Se trata de una aplicación informática que estima emisiones, cantidades de purín y estiércol generado en las explotaciones ganaderas	2012	MAGRAMA	NA	NA
Estudios de la gestión de los compuestos orgánicos de origen ganadero, de calidad de las dietas y de balances de nutrientes	Agriculture	CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones del sector agrario	Information	Adopted	Ofrece información sobre la influencia de las dietas en la emisión de gases de efecto invernadero por parte de la ganadería	2011	MAGRAMA	NA	NA
Sistema de Información Geográfico Agrario (SIGA)	Agriculture	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Proporcionar información sobre el territorio	Information	Adopted	Ofrece información cartográfica y alfanumérica sobre la agricultura española	1972	MAGRAMA	NA	NA
Encuesta sobre Superficies y Rendimientos de Cultivos	Agriculture	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones derivadas del sector agrario	Information	Adopted	Se basa en una investigación en campo, que se realiza anualmente. Proporciona información sobre superficies y rendimientos agrícolas	1990	MAGRAMA	NA	NA
Encuestas ganaderas	Agriculture	CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones derivadas del sector agrario	Information	Adopted	Proporciona información sobre el número de efectivos ganaderos	1990	MAGRAMA	NA	NA
Desarrollo Directiva IPPC: Guías Sobre Mejores Técnicas Disponibles (MTDS) Para Distintos Sectores	Agriculture	CH <sub>4</sub> , N <sub>2</sub> O	Reducir las emisiones derivadas del sector agrario	Information	Adopted	s emisiones de la producción porcina y avícola asociada a la aplicación de las mejores técnicas disponibles	2005	MAGRAMA	NA	NA
Implantación de tecnologías para el control de emisiones en la maquinaria móvil diésel no de carretera	Agriculture, Forestry/LULUC F	CH <sub>4</sub>		Regulatory	Adopted		2006		-0.14	-0.11
Restauración de la cubierta forestal y ampliación de la superficie arbolada	Forestry/LULUC F	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Aumento de absorciones y reducción de emisiones	Other (Other (Planning))	Adopted	Forestaciones y reforestaciones bajo diversos programas	1990	DG-DRPF	1,694.00	2,332.00
Gestión forestal sostenible	Forestry/LULUC F	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	Aumento de absorciones y reducción de emisiones	Other (Other (Planning))	Adopted	Gestión forestal sostenible en sentido amplio, incluyendo ordenaciones, prevención de incendios, defensa del monte, etc.	1990	DG-DRPF	0.00	0.00
Plan Nacional Integrado de Residuos 2008-2015	Waste management/waste	CH <sub>4</sub>	Reducir las emisiones derivadas del sector residuos	Other (Other (Planning))	Adopted	Fomentar la correcta gestión de los residuos y por lo tanto reducir las emisiones del sector	2008	MAGRAMA	6,449.00	8,038.00

Table 3

ESP\_BR1\_v0.1

**Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects**

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)	
									2015	2020
Medidas para la captación de gas en vertedero	Waste management/waste	CH <sub>4</sub>	Reducir las emisiones derivadas del sector residuos, subsector vertederos	Other (Other (Planning))	Adopted	Reducir las emisiones de los vertederos mediante el fomento de la captación y utilización del biogas de vertedero	2001	MAGRAMA	IE	IE
Ley 22/2011 de residuos y suelos contaminados	Waste management/waste	CH <sub>4</sub>	Reducir las emisiones derivadas del sector residuos	Other (Other (Planning))	Adopted	Fomentar la jerarquía de la gestión de los residuos y por lo tanto reducir las emisiones del sector	2011	MAGRAMA	IE	IE
Lodos de depuradora	Waste management/waste	CH <sub>4</sub>	Reducir las emisiones derivadas del sector residuos, subsector lodos	Other (Other (Planning))	Adopted	Reducir emisiones en el subsector de lodos, mediante un mejor conocimiento del estado de situación de la gestión en el subsector	2012	MAGRAMA	NA	NA
Estrategia "Más alimento, menos desperdicio"	Waste management/waste	CH <sub>4</sub>	Reducir las emisiones derivadas del sector residuos	Other (Other (Planning))	Adopted	Reducir emisiones en el sector mediante la prevención de la generación de residuos	2013	MAGRAMA	NA	NA

*Note* : The two final columns specify the year identified by the Party for estimating impacts (based on the status of the measure and whether an ex post or ex ante estimation is available).

*Abbreviations* : GHG = greenhouse gas; LULUCF = land use, land-use change and forestry.

<sup>a</sup> Parties should use an asterisk (\*) to indicate that a mitigation action is included in the 'with measures' projection.

<sup>b</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors, cross-cutting, as appropriate.

<sup>c</sup> To the extent possible, the following types of instrument should be used: economic, fiscal, voluntary agreement, regulatory, information, education, research, other.

<sup>d</sup> To the extent possible, the following descriptive terms should be used to report on the status of implementation: implemented, adopted, planned.

<sup>e</sup> Additional information may be provided on the cost of the mitigation actions and the relevant timescale.

<sup>f</sup> Optional year or years deemed relevant by the Party.

**Custom Footnotes**

En la Sexta Comunicación Nacional se incluye información más detallada de las medidas y proyecciones, así como un siglario.

**Reporting on progress<sup>a, b</sup>**

Year <sup>c</sup>	Total emissions excluding LULUCF	Contribution from LULUCF <sup>d</sup>	Quantity of units from market based mechanisms under the Convention		Quantity of units from other market based mechanisms	
	(kt CO <sub>2</sub> eq)	(kt CO <sub>2</sub> eq)	(number of units)	(kt CO <sub>2</sub> eq)	(number of units)	(kt CO <sub>2</sub> eq)
(1990)						
2010		11,351.44				
2011		11,525.63				
2012						

Abbreviation : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> For the base year, information reported on the emission reduction target shall include the following: (a) total GHG emissions, excluding emissions and removals from the LULUCF sector; (b) emissions and/or removals from the LULUCF sector based on the accounting approach applied taking into consideration any relevant decisions of the Conference of the Parties and the activities and/or land that will be accounted for; (c) total GHG emissions, including emissions and removals from the LULUCF sector. For each reported year, information reported on progress made towards the emission reduction targets shall include, in addition to the information noted in paragraphs 9(a–c) of the UNFCCC biennial reporting guidelines for developed country Parties, information on the use of units from market-based mechanisms.

<sup>c</sup> Parties may add additional rows for years other than those specified below.

<sup>d</sup> Information in this column should be consistent with the information reported in table 4(a)I or 4(a)II, as appropriate. The Parties for which all relevant information on the LULUCF contribution is reported in table 1 of this common tabular format can refer to table 1.

**Custom Footnotes**

El año 1990 para LULUCF en este caso no es relevante. No hay datos de 2012 de la contribución de LULUCF. La información aquí proporcionada es relevante únicamente a efectos del cumplimiento de los compromisos adquiridos en el marco del primer periodo de compromiso del Protocolo de Kioto, y no para el compromiso a 2020.

Los párrafos 6 a 10 del anexo 1 de la decisión 2/CP.17 (directrices de presentación de informes bienales de la Convención Marco de las Partes que son países desarrollados) requieren que las Partes informen sobre los avances en el logro de objetivos cuantificados de reducción de emisiones. No obstante, en el primer informe bienal se reporta de lo ocurrido hasta hasta el 1 de enero de 2014, fecha que en el caso del uso de los mecanismos de flexibilidad o/y otros mecanismos de mercado, es muy temprana identificar claramente los avances relacionados con la meta de 2020 ya que no se ha retirado ninguna unidad para dar cumplimiento a estos objetivos.

**Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2011** <sup>a,b</sup>

	<i>Net GHG emissions/removals from LULUCF categories</i> <sup>c</sup>	<i>Base year/period or reference level value</i> <sup>d</sup>	<i>Contribution from LULUCF for reported year</i>	<i>Cumulative contribution from LULUCF</i> <sup>e</sup>	<i>Accounting approach</i> <sup>f</sup>
	<i>(kt CO<sub>2</sub> eq)</i>				
Total LULUCF					
A. Forest land					
1. Forest land remaining forest land					
2. Land converted to forest land					
3. Other <sup>g</sup>					
B. Cropland					
1. Cropland remaining cropland					
2. Land converted to cropland					
3. Other <sup>g</sup>					
C. Grassland					
1. Grassland remaining grassland					
2. Land converted to grassland					
3. Other <sup>g</sup>					
D. Wetlands					
1. Wetland remaining wetland					
2. Land converted to wetland					
3. Other <sup>g</sup>					
E. Settlements					
1. Settlements remaining settlements					
2. Land converted to settlements					
3. Other <sup>g</sup>					
F. Other land					
1. Other land remaining other land					
2. Land converted to other land					
3. Other <sup>g</sup>					
Harvested wood products					

*Abbreviations:* GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction target.

<sup>b</sup> Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>c</sup> For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

<sup>d</sup> Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

<sup>g</sup> Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

**Custom Footnotes**

**Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2012** <sup>a, b</sup>

	<i>Net GHG emissions/removals from LULUCF categories</i> <sup>c</sup>	<i>Base year/period or reference level value</i> <sup>d</sup>	<i>Contribution from LULUCF for reported year</i>	<i>Cumulative contribution from LULUCF</i> <sup>e</sup>	<i>Accounting approach</i> <sup>f</sup>
	<i>(kt CO<sub>2</sub> eq)</i>				
Total LULUCF					
A. Forest land					
1. Forest land remaining forest land					
2. Land converted to forest land					
3. Other <sup>g</sup>					
B. Cropland					
1. Cropland remaining cropland					
2. Land converted to cropland					
3. Other <sup>g</sup>					
C. Grassland					
1. Grassland remaining grassland					
2. Land converted to grassland					
3. Other <sup>g</sup>					
D. Wetlands					
1. Wetland remaining wetland					
2. Land converted to wetland					
3. Other <sup>g</sup>					
E. Settlements					
1. Settlements remaining settlements					
2. Land converted to settlements					
3. Other <sup>g</sup>					
F. Other land					
1. Other land remaining other land					
2. Land converted to other land					
3. Other <sup>g</sup>					
Harvested wood products					

*Abbreviations:* GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>c</sup> For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

<sup>d</sup> Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

<sup>g</sup> Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

**Custom Footnotes**

Table 4(a)II

ESP\_BR1\_v0.1

Source: Submission 2014 v1.4, SPAIN

Progress in achievement of the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the counting of emissions and removals from the land use, land-use change and forestry sector in relation to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol<sup>a,b,c</sup>

GREENHOUSE GAS SOURCE AND SINK ACTIVITIES	Base year <sup>d</sup>	Net emissions/removals <sup>e</sup>					Accounting parameters <sup>h</sup>	Accounting quantity <sup>i</sup>
		2008	2009	2010	2011	Total <sup>f</sup>		
		(kt CO <sub>2</sub> eq)						
<b>A. Article 3.3 activities</b>								
A.1. Afforestation and Reforestation								-25778.81
A.1.1. Units of land not harvested since the beginning of the commitment periodj		-6,386.39	-6,475.37	-6,476.73	-6,440.32	-25,778.81		-25778.81
A.1.2. Units of land harvested since the beginning of the commitment periodj								NA,NO
A.2. Deforestation		106.17	107.10	108.06	109.01	430.35		430.34579
<b>B. Article 3.4 activities</b>								
B.1. Forest Management (if elected)		-18,677.23	-18,635.59	-18,679.56	-18,730.33	-74,722.71		-
								12283.33333
3.3 offset <sup>k</sup>							0	0
FM cap <sup>l</sup>							12283.33333	-
								12283.33333
B.2. Cropland Management (if elected)	-711.55009	-3,468.70	-2,845.36	-3,237.66	-3,449.20	-13,000.93	-2846.20036	-
								10154.73286
B.3. Grazing Land Management (if elected)	NA	NA	NA	NA	NA	NA	NA	NA
B.4. Revegetation (if elected)	NA	NA	NA	NA	NA	NA	NA	NA

Note: 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

Abbreviations : CRF = common reporting format, LULUCF = land use, land-use change and forestry.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> Developed country Parties with a quantified economy-wide emission reduction target as communicated to the secretariat and contained in document FCCC/SB/2011/INF.1/Rev.1 or any update to that document, that are Parties to the Kyoto Protocol, may use table 4(a)II for reporting of accounting quantities if LULUCF is contributing to the attainment of that target.

<sup>c</sup> Parties can include references to the relevant parts of the national inventory report, where accounting methodologies regarding LULUCF are further described in the documentation box or in the biennial reports.

<sup>d</sup> Net emissions and removals in the Party's base year, as established by decision 9/CP.2.

<sup>e</sup> All values are reported in the information table on accounting for activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol, of the CRF for the relevant inventory year as reported in the current submission and are automatically entered in this table.

<sup>f</sup> Additional columns for relevant years should be added, if applicable.

<sup>g</sup> Cumulative net emissions and removals for all years of the commitment period reported in the current submission.

<sup>h</sup> The values in the cells "3.3 offset" and "Forest management cap" are absolute values.

<sup>i</sup> The accounting quantity is the total quantity of units to be added to or subtracted from a Party's assigned amount for a particular activity in accordance with the provisions of Article 7, paragraph 4, of the Kyoto Protocol.

<sup>j</sup> In accordance with paragraph 4 of the annex to decision 16/CMP.1, debits resulting from harvesting during the first commitment period following afforestation and reforestation since 1990 shall not be greater than the credits accounted for on that unit of land.

<sup>k</sup> In accordance with paragraph 10 of the annex to decision 16/CMP.1, for the first commitment period a Party included in Annex I that incurs a net source of emissions under the provisions of Article 3 paragraph 3, may account for anthropogenic greenhouse gas emissions by sources and removals by sinks in areas under forest management under Article 3, paragraph 4, up to a level that is equal to the net source of emissions under the provisions of Article 3, paragraph 3, but not greater than 9.0 megatonnes of carbon times five, if the total anthropogenic greenhouse gas emissions by sources and removals by sinks in the managed forest since 1990 is equal to, or larger than, the net source of emissions incurred under Article 3, paragraph 3.

<sup>l</sup> In accordance with paragraph 11 of the annex to decision 16/CMP.1, for the first commitment period of the Kyoto Protocol only, additions to and subtractions from the assigned amount of a Party resulting from Forest management under Article 3, paragraph 4, after the application of paragraph 10 of the annex to decision 16/CMP.1 and resulting from forest management project activities undertaken under Article 6, shall not exceed the value inscribed in the appendix of the annex to decision 16/CMP.1, times five.

#### Custom Footnotes

#### Documentation Box:



Table 4(b)  
Reporting on progress<sup>a, b, c</sup>

ESP\_BR1\_v0.1

Units of market based mechanisms		Year		Comments
		2011	2012	
	(number of units)			Los párrafos 6 a 10 del anexo I de la decisión 2/CP.17 (directrices de presentación de informes bienales de la Convención Marco de las Partes que son países desarrollados) requieren que las Partes informen sobre los avances en el logro de objetivos cuantificados de reducción de emisiones. No obstante, en el primer informe bienal se reporta de lo ocurrido hasta hasta el 1 de enero de 2014, fecha que en el caso del uso de los mecanismos de flexibilidad o/y otros mecanismos de mercado, es muy temprana identificar claramente los avances relacionados con la meta de 2020 ya que no se ha retirado ninguna unidad para dar cumplimiento a estos objetivos.
<i>Kyoto Protocol units</i>	(kt CO <sub>2</sub> eq)			
<i>Kyoto Protocol units</i> <sup>d</sup>				
AAUs	(number of units) (kt CO <sub>2</sub> eq)			
ERUs	(number of units) (kt CO <sub>2</sub> eq)			
CERs	(number of units) (kt CO <sub>2</sub> eq)			
tCERs	(number of units) (kt CO <sub>2</sub> eq)			
ICERs	(number of units) (kt CO <sub>2</sub> eq)			
Units from market-based mechanisms under the Convention	(number of units) (kt CO <sub>2</sub> eq)			
<i>Other units</i> <sup>d, e</sup>				
<i>Units from other market-based mechanisms</i>	(number of units) (kt CO <sub>2</sub> eq)			
<i>Total</i>	(number of units) (kt CO <sub>2</sub> eq)			

Abbreviations : AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions , tCERs = temporary certified emission reductions.

Note: 2011 is the latest reporting year.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

<sup>b</sup> For each reported year, information reported on progress made towards the emission reduction target shall include, in addition to the information noted in paragraphs 9(a-c) of the reporting guidelines, on the use of units

<sup>c</sup> Parties may include this information, as appropriate and if relevant to their target.

<sup>d</sup> Units surrendered by that Party for that year that have not been previously surrendered by that or any other Party.

<sup>e</sup> Additional rows for each market-based mechanism should be added, if applicable.

**Custom Footnotes**

avances en el logro de objetivos cuantificados de reducción de emisiones. No obstante, en el primer informe bienal se reporta de lo ocurrido hasta hasta el 1 de enero de 2014, fecha que en el caso del uso de los mecanismos de flexibilidad o/y otros mecanismos de mercado, es muy temprana identificar claramente los avances relacionados con la meta de 2020 ya que no se ha retirado ninguna unidad para dar cumplimiento a estos objetivos.

Table 5

ESP\_BR1\_v0.1

**Summary of key variables and assumptions used in the projections analysis<sup>a</sup>**

<i>Key underlying assumptions</i>		<i>Historical<sup>b</sup></i>						<i>Projected</i>			
<i>Assumption</i>	<i>Unit</i>	1990	1995	2000	2005	2010	2011	2015	2020	2025	2030
<i>PIB</i>	<i>millones de euros constantes del año 2010</i>	656,057.00	703,123.00	856,757.00	1,005,904.00	1,051,342.00	1,055,547.00	1,066,818.00	1,183,632.00	1,326,152.00	1,485,841.00
Gasto en consumo final de los hogares	millones de euros constantes del año 2010	378,842.00	400,215.00	488,194.00	579,048.00	596,322.00	593,615.00	598,849.00	663,440.00	731,551.00	829,573.00
Formación bruta de capital fijo en equipo de transporte	millones de euros constantes del año 2010	10,797.00	10,775.00	20,170.00	24,337.00	17,208.00	18,158.00	18,414.00	16,590.00	18,094.00	20,463.00
VAB servicios	1000 millones €	373.00	415.00	498.00	591.00	666.00	671.00	687.00	765.00	866.00	965.00
Producción de energía eléctrica	GWh			224,472.00	294,077.00	303,092.00	301,497.00	305,395.00	336,482.00	385,796.00	435,183.00
Población	1000 habitantes	38,851.00	39,388.00	40,264.00	43,398.00	46,073.00	46,125.00	45,967.00	45,626.00	45,626.00	45,626.00
Ratio de ocupación de viviendas	personas por vivienda	3.38	3.10	2.89	2.71	2.59	2.58	2.50	2.40	2.33	2.25
Producción de acero	1000 toneladas	13,163.00	12,818.00	16,000.00	17,842.00	16,217.00	14,447.00	13,349.00	14,309.00	16,262.00	17,667.00
Producción de clínker	1000 toneladas	23,211.00	23,373.00	27,840.00	31,742.00	21,229.00	18,243.00	20,469.00	23,990.00	27,204.00	30,179.00
Crudo procesado	1000 toneladas	53,556.00	55,754.00	59,174.00	61,986.00	57,882.00	58,536.00	61,151.00	64,419.00	65,508.00	66,598.00
Recorridos	millones de kilómetros	186,984.00	233,313.00	314,351.00	373,395.00	363,925.00	351,083.00	349,124.00	387,961.00	430,496.00	490,320.00
Consumos energéticos del transporte excluida electricidad	PJ	748.73	890.48	1,144.00	1,378.00	1,311.00	1,264.00	1,235.00	1,348.00	1,413.00	1,489.00
Parque de vehículos	1000 vehículos	16,835.00	20,176.00	24,632.00	29,270.00	32,484.00		30,906.00	36,436.00	34,952.00	36,171.00
Movilidad de pasajeros	millones de viajeros*kilómetros			578,893.00		710,907.00	705,542.00	719,216.00	785,230.00	857,027.00	948,483.00
Movilidad de mercancías	millones de t*km			345,998.00		313,650.00	297,266.00	275,598.00	294,312.00	328,133.00	374,477.00
Número de operaciones en aeropuertos nacionales	número de operaciones	199,155.00	264,085.00	417,986.00	513,494.00	470,862.00	433,939.00	482,223.00	571,312.00	687,755.00	827,937.00
Número de operaciones en aeropuertos internacionales	número de operaciones	167,611.00	237,498.00	334,902.00	427,118.00	447,965.00	454,352.00	461,949.00	543,317.00	648,855.00	774,901.00
Cabezas de vacuno	1000 cabezas	5,079.00	5,635.00	6,102.00	6,426.00	6,174.00	6,188.00	6,192.00	6,144.00	5,374.00	5,130.00
Cabezas de porcino	1000 cabezas	16,371.00	18,614.00	22,752.00	25,226.00	25,203.00	25,455.00	26,752.00	27,072.00	26,093.00	26,752.00
Area de bosque gestionado	1000 ha	12,610.00	12,872.00	13,363.00	13,592.00	13,711.00	13,725.00	13,779.00	13,847.00	13,915.00	13,984.00

<sup>a</sup> Parties should include key underlying assumptions as appropriate.<sup>b</sup> Parties should include historical data used to develop the greenhouse gas projections reported.

Information on updated greenhouse gas projections under a 'with measures' scenario <sup>a</sup>

	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)							(kt CO <sub>2</sub> eq)	
	Base year (1990)	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector <sup>d,e</sup></b>									
Energy	155,145.90	155,145.90	173,771.68	204,587.71	245,174.25	178,412.42	194,045.00	206,132.00	266,267.00
Transport	54,976.47	54,976.47	65,480.55	84,266.19	100,324.01	91,422.81	87,506.00	88,408.00	97,869.00
Industry/industrial processes	27,551.09	27,551.09	28,939.32	36,341.55	36,277.30	30,883.12	31,112.00	40,771.00	46,481.00
Agriculture	37,520.98	37,520.98	36,548.31	44,029.42	40,842.74	40,013.76	39,376.00	39,610.00	37,132.00
Forestry/LULUCF	-19,105.74	-19,105.74	-19,256.60	-23,262.92	-24,544.97	-28,953.38	-30,421.00	-29,174.00	-28,790.00
Waste management/waste	7,565.96	7,565.96	9,465.01	11,543.48	12,742.48	15,093.80	13,972.00	12,912.00	11,577.00
Other (specify)									
Aviación en el ámbito del EU ETS									
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	206,458.41	206,458.41	234,076.76	283,094.00	341,816.98	255,358.07	263,442.00	281,882.00	355,377.00
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	225,754.54	225,754.54	253,491.87	306,533.67	366,622.29	284,378.47	294,029.00	311,221.00	384,332.00
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	26,216.18	26,216.18	28,750.42	32,984.82	34,564.28	35,072.55	34,174.00	32,752.00	30,181.00
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	26,043.33	26,043.33	28,606.51	32,824.37	34,327.93	35,011.70	34,024.00	32,602.00	30,031.00
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	27,627.05	27,627.05	26,534.68	32,420.38	28,471.03	27,632.67	25,372.00	25,695.00	25,442.00
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	27,609.51	27,609.51	26,520.08	32,404.09	28,447.04	27,626.49	25,357.00	25,680.00	25,427.00
HFCs	2,403.18	2,403.18	4,645.55	8,365.60	5,403.84	8,144.86	11,916.00	17,728.00	18,961.00
PFCs	882.92	882.92	832.52	436.03	288.05	303.33	328.00	344.00	415.00
SF <sub>6</sub>	66.92	66.92	108.34	204.60	271.63	361.06	358.00	259.00	160.00
Other (specify)									
<b>Total with LULUCF<sup>f</sup></b>	263,654.66	263,654.66	294,948.27	357,505.43	410,815.81	326,872.54	335,590.00	358,660.00	430,536.00
<b>Total without LULUCF</b>	282,760.40	282,760.40	314,204.87	380,768.36	435,360.78	355,825.91	366,012.00	387,834.00	459,326.00

Abbreviations : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", at a minimum Parties shall report a 'with measures' scenario, and may report 'without measures' and 'with additional measures' scenarios. If a Party chooses to report 'without measures' and/or 'with additional measures' scenarios they are to use tables 6(b) and/or 6(c), respectively. If a Party does not choose to report 'without measures' or 'with additional measures' scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

<sup>b</sup> Emissions and removals reported in these columns should be as reported in the latest GHG inventory and consistent with the emissions and removals reported in the table on GHG emissions and trends provided in this biennial report. Where the sectoral breakdown differs from that reported in the GHG inventory Parties should explain in their biennial report how the inventory sectors relate to the sectors reported in this table.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> In accordance with paragraph 34 of the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", projections shall be presented on a sectoral basis, to the extent possible, using the same sectoral categories used in the policies and measures section. This table should follow, to the extent possible, the same sectoral categories as those listed in paragraph 17 of those guidelines, namely, to the extent appropriate, the following sectors should be considered: energy, transport, industry, agriculture, forestry and waste management.

<sup>e</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors (i.e. cross-cutting), as appropriate.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

Information on updated greenhouse gas projections under a 'without measures' scenario <sup>a</sup>

Sector <sup>de</sup>	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)							(kt CO <sub>2</sub> eq)	
	Base year (1990)	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector <sup>de</sup></b>									
Energy	155,145.90	155,145.90	173,771.68	204,587.71	245,174.25	178,412.42	194,045.00	281,677.00	362,124.00
Transport	54,976.47	54,976.47	65,480.55	84,266.19	100,324.01	91,422.81	87,506.00	101,274.00	129,529.00
Industry/industrial processes	27,551.09	27,551.09	28,939.32	36,341.55	36,277.30	30,883.12	31,112.00	37,031.00	43,257.00
Agriculture	37,520.98	37,520.98	36,548.31	44,029.42	40,842.74	40,013.76	39,376.00	39,697.00	37,219.00
Forestry/LULUCF	-19,105.74	-19,105.74	-19,256.60	-23,262.92	-24,544.97	-28,953.38	-30,421.00	-26,839.00	-26,042.00
Waste management/waste	7,565.96	7,565.96	9,465.01	11,543.48	12,742.48	15,093.80	13,972.00	12,912.00	11,577.00
Other (specify)									
Aviación en el ámbito del EU ETS									
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	206,458.41	206,458.41	234,076.76	283,094.00	341,816.98	255,358.07	263,442.00	370,705.00	483,021.00
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	225,754.54	225,754.54	253,491.87	306,533.67	366,622.29	284,378.47	294,029.00	397,709.00	509,229.00
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	26,216.18	26,216.18	28,750.42	32,984.82	34,564.28	35,072.55	34,174.00	34,592.00	32,540.00
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	26,043.33	26,043.33	28,606.51	32,824.37	34,327.93	35,011.70	34,024.00	34,442.00	32,389.00
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	27,627.05	27,627.05	26,534.68	32,420.38	28,471.03	27,632.67	25,372.00	28,125.00	28,010.00
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	27,609.51	27,609.51	26,520.08	32,404.09	28,447.04	27,626.49	25,357.00	28,110.00	27,995.00
HFCs	2,403.18	2,403.18	4,645.55	8,365.60	5,403.84	8,144.86	11,916.00	11,574.00	13,355.00
PFCs	882.92	882.92	832.52	436.03	288.05	303.33	328.00	498.00	578.00
SF <sub>6</sub>	66.92	66.92	108.34	204.60	271.63	361.06	358.00	259.00	160.00
Other (specify)									
<b>Total with LULUCF<sup>f</sup></b>	263,654.66	263,654.66	294,948.27	357,505.43	410,815.81	326,872.54	335,590.00	445,753.00	557,664.00
<b>Total without LULUCF</b>	282,760.40	282,760.40	314,204.87	380,768.36	435,360.78	355,825.91	366,012.00	472,592.00	583,706.00

Abbreviations : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", at a minimum Parties shall report a 'with measures' scenario, and may report 'without measures' and 'with additional measures' scenarios. If a Party chooses to report 'without measures' and/or 'with additional measures' scenarios they are to use tables 6(b) and/or 6(c), respectively. If a Party does not choose to report 'without measures' or 'with additional measures' scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

<sup>b</sup> Emissions and removals reported in these columns should be as reported in the latest GHG inventory and consistent with the emissions and removals reported in the table on GHG emissions and trends provided in this biennial report. Where the sectoral breakdown differs from that reported in the GHG inventory Parties should explain in their biennial report how the inventory sectors relate to the sectors reported in this table.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> In accordance with paragraph 34 of the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", projections shall be presented on a sectoral basis, to the extent possible, using the same sectoral categories used in the policies and measures section. This table should follow, to the extent possible, the same sectoral categories as those listed in paragraph 17 of those guidelines, namely, to the extent appropriate, the following sectors should be considered: energy, transport, industry, agriculture, forestry and waste management.

<sup>e</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors (i.e. cross-cutting), as appropriate.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

Information on updated greenhouse gas projections under a 'with additional measures' scenario <sup>a</sup>

	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)							(kt CO <sub>2</sub> eq)	
	Base year (1990)	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector <sup>d,e</sup></b>									
Energy	155,145.90	155,145.90	173,771.68	204,587.71	245,174.25	178,412.42	194,045.00	200,759.00	257,334.00
Transport	54,976.47	54,976.47	65,480.55	84,266.19	100,324.01	91,422.81	87,506.00	85,959.00	93,284.00
Industry/industrial processes	27,551.09	27,551.09	28,939.32	36,341.55	36,277.30	30,883.12	31,112.00	39,892.00	45,601.00
Agriculture	37,520.98	37,520.98	36,548.31	44,029.42	40,842.74	40,013.76	39,376.00	39,610.00	37,132.00
Forestry/LULUCF	-19,105.74	-19,105.74	-19,256.60	-23,262.92	-24,544.97	-28,953.38	-30,421.00	-29,174.00	-28,790.00
Waste management/waste	7,565.96	7,565.96	9,465.01	11,543.48	12,742.48	15,093.80	13,972.00	12,686.00	11,301.00
Other (specify)									
Aviación en el ámbito del EU ETS									
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	206,458.41	206,458.41	234,076.76	283,094.00	341,816.98	255,358.07	263,442.00	274,129.00	341,933.00
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	225,754.54	225,754.54	253,491.87	306,533.67	366,622.29	284,378.47	294,029.00	303,468.00	370,888.00
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	26,216.18	26,216.18	28,750.42	32,984.82	34,564.28	35,072.55	34,174.00	32,503.00	29,914.00
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	26,043.33	26,043.33	28,606.51	32,824.37	34,327.93	35,011.70	34,024.00	32,353.00	29,764.00
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	27,627.05	27,627.05	26,534.68	32,420.38	28,471.03	27,632.67	25,372.00	25,650.00	25,358.00
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	27,609.51	27,609.51	26,520.08	32,404.09	28,447.04	27,626.49	25,357.00	25,634.00	25,343.00
HFCs	2,403.18	2,403.18	4,645.55	8,365.60	5,403.84	8,144.86	11,916.00	16,848.00	18,082.00
PFCs	882.92	882.92	832.52	436.03	288.05	303.33	328.00	344.00	415.00
SF <sub>6</sub>	66.92	66.92	108.34	204.60	271.63	361.06	358.00	259.00	160.00
Other (specify)									
<b>Total with LULUCF<sup>f</sup></b>	263,654.66	263,654.66	294,948.27	357,505.43	410,815.81	326,872.54	335,590.00	349,733.00	415,862.00
<b>Total without LULUCF</b>	282,760.40	282,760.40	314,204.87	380,768.36	435,360.78	355,825.91	366,012.00	378,906.00	444,652.00

Abbreviations : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

<sup>a</sup> In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", at a minimum Parties shall report a 'with measures' scenario, and may report 'without measures' and 'with additional measures' scenarios. If a Party chooses to report 'without measures' and/or 'with additional measures' scenarios they are to use tables 6(b) and/or 6(c), respectively. If a Party does not choose to report 'without measures' or 'with additional measures' scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

<sup>b</sup> Emissions and removals reported in these columns should be as reported in the latest GHG inventory and consistent with the emissions and removals reported in the table on GHG emissions and trends provided in this biennial report. Where the sectoral breakdown differs from that reported in the GHG inventory Parties should explain in their biennial report how the inventory sectors relate to the sectors reported in this table.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> In accordance with paragraph 34 of the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", projections shall be presented on a sectoral basis, to the extent possible, using the same sectoral categories used in the policies and measures section. This table should follow, to the extent possible, the same sectoral categories as those listed in paragraph 17 of those guidelines, namely, to the extent appropriate, the following sectors should be considered: energy, transport, industry, agriculture, forestry and waste management.

<sup>e</sup> To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors (i.e. cross-cutting), as appropriate.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

Table 7

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**Provision of public financial support: summary information in 2011<sup>a</sup>**

Allocation channels	Year									
	European euro - EUR					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>
<b>Total contributions through multilateral channels:</b>	381,518,907.00	104,132,000.00	4,900,000.00		1,598,139.00	531,946,222.00	144,788,655.00	6,812,258.00		2,222,107.00
Multilateral climate change funds <sup>g</sup>		104,132,000.00	4,900,000.00				144,788,655.00	6,812,258.00		
Other multilateral climate change funds <sup>h</sup>		104,132,000.00	4,900,000.00				144,788,655.00	6,812,258.00		
Multilateral financial institutions, including regional development banks	351,659,951.00					490,429,320.00				
Specialized United Nations bodies	29,858,956.00				1,598,139.00	41,516,902.00				2,222,107.00
<b>Total contributions through bilateral, regional and other channels</b>		126,318,244.00	5,753,325.00	3,451,896.00			166,474,781.00	7,999,618.00	4,799,632.00	
<b>Total</b>	381,518,907.00	230,450,244.00	10,653,325.00	3,451,896.00	1,598,139.00	531,946,222.00	311,263,436.00	14,811,876.00	4,799,632.00	2,222,107.00

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

<sup>g</sup> Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

<sup>h</sup> Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

**Custom Footnotes**

Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).

**Documentation Box:**

Table 7

ESP\_BR1\_v0.1

**Provision of public financial support: summary information in 2012<sup>a</sup>**

Allocation channels	Year									
	European euro - EUR					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>
<b>Total contributions through multilateral channels:</b>	65,858,264.00				1,984,799.00	84,858,959.00				2,551,155.00
Multilateral climate change funds <sup>g</sup>										
Other multilateral climate change funds <sup>h</sup>										
Multilateral financial institutions, including regional development banks	56,396,317.00				256,506.00	72,697,073.00				329,699.00
Specialized United Nations bodies	9,461,947.00				1,728,293.00	12,161,886.00				2,221,456.00
<b>Total contributions through bilateral, regional and other channels</b>		149,943,826.00	23,394,640.00	30,353,983.00			192,729,757.00	30,070,224.00	39,015,403.00	
<b>Total</b>	65,858,264.00	149,943,826.00	23,394,640.00	30,353,983.00	1,984,799.00	84,858,959.00	192,729,757.00	30,070,224.00	39,015,403.00	2,551,155.00

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

<sup>g</sup> Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

<sup>h</sup> Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

**Custom Footnotes**

Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).

**Documentation Box:**

Table 7(a)

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Provision of public financial support: contribution through multilateral channels in 2011 <sup>a</sup>

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>g, s</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	European euro - EUR	USD	European euro - EUR	USD					
Total contributions through multilateral channels	381,518,907.00	531,946,222.00	110,630,139.00	153,823,020.00					
Multilateral climate change funds <sup>g</sup>			109,032,000.00	151,600,913.00					
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds			109,032,000.00	151,600,913.00					
World Bank CF-Assist			750,000.00	1,042,825.00	Provided	ODA	Grant	Mitigation	Energy, Transport, Industry
UN-REDD			2,800,000.00	3,893,215.00	Provided	ODA	Grant	Mitigation	Forestry
Facility for Euro-Mediterranean Investment and Partnership, FEMIP (EIB)			100,000,000.00	139,043,382.00	Provided	ODA	Equity	Mitigation	Energy
Renewable Energy Observatory for Latin America and the Caribbean			500,000.00	695,217.00	Provided	ODA	Grant	Mitigation	Energy
The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)			82,000.00	114,016.00	Provided	ODA	Grant	Mitigation	Energy
Multidonor Disaster Prevention Trust Fund (IADB)			2,000,000.00	2,780,000.00	Provided	ODA	Grant	Adaptation	Cross-cutting
Global Facility For Disaster reduction and recovery (World Bank)			2,900,000.00	4,032,258.00	Provided	ODA	Grant	Adaptation	Cross-cutting
Multilateral financial institutions, including regional development banks	351,659,951.00	490,429,320.00							
1. World Bank	222,028,023.00	308,618,953.00			Provided	ODA	Other (Grant&Equity)		
2. International Finance Corporation									
3. African Development Bank	48,136,189.00	66,909,303.00			Provided	ODA	Other (Grant&Equity)		
4. Asian Development Bank	20,274,845.00	29,804,022.00			Provided	ODA	Grant		
5. European Bank for Reconstruction and Development									
6. Inter-American Development Bank	14,166,793.00	19,691,842.00			Provided	ODA	Other (Grant & Equity)		
7. Other	47,054,101.00	65,405,200.00							
Andean Development Corporation (CAF)	47,054,101.00	65,405,200.00			Provided	ODA	Equity		
Specialized United Nations bodies	29,858,956.00	41,516,902.00	1,598,139.00	2,222,107.00					
1. United Nations Development Programme	18,290,000.00	25,431,034.00							
UNDP	18,290,000.00	25,431,034.00			Provided	ODA	Grant		
2. United Nations Environment Programme	140,330.00	195,120.00							
UNEP	140,330.00	195,120.00			Provided	ODA	Grant		
3. Other	11,428,626.00	15,890,748.00	1,598,139.00	2,222,107.00					
World Meteorological Organisation (WMO)			1,598,139.00	2,222,107.00	Provided	ODA	Grant		
Food and Agriculture Organization (FAO)	5,428,626.00	7,548,145.00			Provided	ODA	Grant		
UN HABITAT	6,000,000.00	8,342,603.00			Provided	ODA	Grant		

Abbreviations: ODA = official development assistance, OOF = other official flows.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

## Custom Footnotes



Table 7(a)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through multilateral channels in 2012<sup>a</sup>**

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>f, g</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	European euro - EUR	USD	European euro - EUR	USD					
Total contributions through multilateral channels	65,858,264.00	84,858,959.00	1,984,799.00	2,551,155.00					
Multilateral climate change funds <sup>g</sup>									
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities					Provided				
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks	56,396,317.00	72,697,073.00	256,506.00	329,699.00					
1. World Bank	664,063.00	850,000.00			Provided	ODA	Grant		
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development									
6. Inter-American Development Bank	4,634,441.00	6,441,873.00			Provided	ODA	Equity		
7. Other	51,097,813.00	65,405,200.00	256,506.00	329,699.00					
Andean Development Corporation (CAF)	51,097,813.00	65,405,200.00			Provided	ODA	Equity		
International Renewable Energy Agency (IRENA)			256,506.00	329,699.00	Provided	ODA	Grant		
Specialized United Nations bodies	9,461,947.00	12,161,886.00	1,728,293.00	2,221,456.00					
1. United Nations Development Programme									
2. United Nations Environment Programme									
3. Other	9,461,947.00	12,161,886.00	1,728,293.00	2,221,456.00					
Food and Agriculture Organization (FAO)	976,229.00	1,254,793.00			Provided	ODA	Grant		
United Nations Industrial Development Organization (UNIDO)	1,475,532.00	1,896,571.00			Provided	ODA	Grant		
World Health Organization (WHO)	7,010,186.00	9,010,522.00			Provided	ODA	Grant		
World Meteorological Organization (WMO)			1,728,293.00	2,221,456.00	Provided	ODA	Grant		

Abbreviations: ODA = official development assistance, OOF = other official flows.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels	135,523,465. 00	179,274,031. 00						
Sub-Saharan Africa /	379,533.00	527,716.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
Sub-Saharan Africa /	1,618,352.00	2,250,211.00	Provided	ODA	Other (Grant and Concessional Loan)	Mitigation	Energy	
Sub-Saharan Africa /	196,894.00	273,768.00	Provided	ODA	Other (Grant and Cpcessional loan)	Mitigation	Forestry	
Sub-Saharan Africa /	1,049,373.00	1,459,084.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Other (capacity building))	
Africa /	300,000.00	417,130.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (impacts and vulnerability)	
Latin America and the Caribbean /	728,271.00	1,012,613.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
Latin America and the Caribbean /	1,300,006.00	1,807,572.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Energy	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	38,000.00	52,836.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Forestry	
Latin America and the Caribbean /	330,916.00	460,117.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Impacts and vulnerability)	
Latin America and the Caribbean /	563,019.00	782,841.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Capacity building)	
Latin America and the Caribbean /	143,286.00	199,230.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Other (Waste)	
South America /	85,000.00	118,187.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Agriculture	
South America /	878,448.00	1,221,423.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
South America /	1,398,166.00	1,944,057.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Energy	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
South America /	660,822.00	918,829.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Forestry	
South America /	170,169.00	236,609.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Other)	
South America /	80,000.00	111,235.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Other)	
South America /	812,104.00	1,129,177.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Capacity building)	
South America /	180,764.00	251,340.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Other (Waste)	
East Asia /	280,000.00	389,321.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
East Asia /	219,191.00	304,771.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Forestry	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
East Asia /	147,682.00	205,342.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (impacts and vulnerability)	
East Asia /	692,013.00	962,198.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Capacity building)	
South Asia /	259,784.00	361,212.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
North Africa /	70,960.00	98,665.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
North Africa /	101,857.00	141,625.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Energy	
North Africa /	72,940.00	101,418.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Forestry	
North Africa /	88,600.00	123,192.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Other)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
North Africa /	230,800.00	320,912.00	Provided	ODA	Other (Grant and Concessional loan)	Adaptation	Other (Capacity building)	
North Africa /	33,558.00	46,660.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Other (Waste)	
Middle East /	385,938.00	536,621.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Energy	
Middle East /	196,367.00	273,035.00	Provided	ODA	Other (Grant and Concessional loan)	Mitigation	Forestry	
Developing contries, unspecified /	756,900.00	1,052,419.00	Provided	ODA	Other (Grant and Concessional loan)	Cross-cutting	Cross-cutting	
Ghana /	1,189,049.00	1,653,294.00	Provided	OOF	Concessional Loan	Adaptation	Other (Water and agriculture)	Development of an irrigation system
Kenya /	2,999,042.00	4,169,970.00	Provided	OOF	Concessional Loan	Mitigation	Energy	Wind project
Kenya /	1,489,144.00	2,070,556.00	Provided	OOF	Concessional Loan	Mitigation	Energy	Rural solar electrification
Saint Lucia /	99,600.00	138,487.00	Provided	OOF	Grant	Adaptation	Other (Sustainable building)	Technical assistance
South Africa /	463,735.00	644,792.00	Provided	OOF	Grant	Mitigation	Energy	Technical assistance for renewable energy projects evaluation

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Colombia /	98,000.00	136,263.00	Provided	OOF	Grant	Cross-cutting	Cross-cutting	Feasibility study for the creation of a technology park, including a center for the environmental conservation, a research center and a museum on climate change
China /	228,946.00	318,334.00	Provided	OOF	Grant	Mitigation	Other (Waste treatment)	Technical assistance waste treatment system
China /	232,119.00	322,746.00	Provided	OOF	Grant	Mitigation	Other (Waste treatment)	Technical assistance waste treatment system
Brazil /	305,730.00	425,097.00	Provided	OOF	Grant	Mitigation	Other (Waste treatment)	Technical assistance waste management
China /	464,000.00	645,161.00	Provided	OOF	Grant	Mitigation	Other (Waste treatment)	Technical assistance waste treatment system
Panama /	2,900,000.00	4,032,258.00	Provided	OOF	Equity	Mitigation	Energy	Hydroelectric Project
Costa Rica /	10,980,206.00	14,487,283.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Energy	Supply and delivery of services of wind turbines
China /	2,325,497.00	1,762,541.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Transport	Urban traffic control project
Dominican Republic /	40,097,000.00	52,903,982.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Water and sanitation	Construction and start up of an aqueduct

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Honduras /	3,406,075.00	4,493,975.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Energy	Hydroelectric project
Panama /	2,576,737.00	3,399,746.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Energy	Electromechanical equipment for an hydroelectric project
Panama /	515,086.00	679,604.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Energy	Electromechanical equipment for an hydroelectric project
Panama /	780,939.00	1,030,371.00	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Energy	Electrical power control for an hydroelectric project
Dominican Republic /	49,922,847.0 0	65,868,205.0 0	Committed	OOF	Other (Export Credit-Pure Cover)	Mitigation	Transport	Metro railway equipment

*Abbreviations:* ODA = official development assistance, OOF = other official flows; USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.



**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels	203,692,449. 00	261,815,384. 00						
Sub-Saharan Africa /	263,066.00	338,132.00	Provided	ODA	Grant	Adaptation	Agriculture	
Sub-Saharan Africa /	17,718.00	22,774.00	Provided	ODA	Grant	Adaptation	Not applicable	
Sub-Saharan Africa /	432,137.00	555,446.00	Provided	ODA	Grant	Adaptation	Other (Other (Education and Capacity Building))	
Sub-Saharan Africa /	740,404.00	951,676.00	Provided	ODA	Grant	Adaptation	Other (Other (Enviroment al protection))	
Sub-Saharan Africa /	57,840.00	74,344.00	Provided	ODA	Grant	Adaptation	Other (Fishery)	
Sub-Saharan Africa /	554,238.00	712,388.00	Provided	ODA	Grant	Adaptation	Other (Food Development Programmes)	
Sub-Saharan Africa /	23,465.00	30,161.00	Provided	ODA	Grant	Adaptation	Other (Government and civil society)	
Sub-Saharan Africa /	2,074,542.00	2,666,507.00	Provided	ODA	Grant	Adaptation	Other (Health)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Sub-Saharan Africa /	832,800.00	1,070,437.00	Provided	ODA	Grant	Adaptation	Other (Multisectorial)	
Sub-Saharan Africa /	28,429.00	36,541.00	Provided	ODA	Grant	Adaptation	Other (Social services and infrastructures)	
Sub-Saharan Africa /	697,342.00	896,327.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Sub-Saharan Africa /	142,255.00	182,848.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
Sub-Saharan Africa /	35,132.00	45,157.00	Provided	ODA	Grant	Cross-cutting	Forestry	
Sub-Saharan Africa /	9,041.00	11,621.00	Provided	ODA	Grant	Cross-cutting	Other (Education and Capacity Building)	
Sub-Saharan Africa /	31,765.00	40,829.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
Sub-Saharan Africa /	20,604.00	26,483.00	Provided	ODA	Grant	Cross-cutting	Other (Fishery)	
Sub-Saharan Africa /	306,677.00	394,186.00	Provided	ODA	Grant	Cross-cutting	Other (Health)	
Sub-Saharan Africa /	3,912,224.00	5,028,566.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Sub-Saharan Africa /	69,559.00	89,408.00	Provided	ODA	Grant	Cross-cutting	Other (Private sector and other services)	
Sub-Saharan Africa /	32,243.00	41,444.00	Provided	ODA	Grant	Cross-cutting	Water and sanitation	
Sub-Saharan Africa /	25,544.00	32,833.00	Provided	ODA	Grant	Mitigation	Agriculture	
Sub-Saharan Africa /	11,682.00	15,015.00	Provided	ODA	Grant	Mitigation	Energy	
Sub-Saharan Africa /	18,675.00	24,004.00	Provided	ODA	Grant	Mitigation	Other (Education and Capacity Building)	
Sub-Saharan Africa /	282,478.00	363,082.00	Provided	ODA	Grant	Mitigation	Other (Health)	
Sub-Saharan Africa /	62,368.00	80,165.00	Provided	ODA	Grant	Mitigation	Water and sanitation	
Africa /	7,157.00	9,199.00	Provided	ODA	Grant	Cross-cutting	Forestry	
Africa /	16,500.00	21,208.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectori al)	
Africa /	82,000.00	105,398.00	Provided	ODA	Grant	Mitigation	Energy	
Latin America and the Caribbean /	320,828.00	412,375.00	Provided	ODA	Grant	Adaptation	Agriculture	
Latin America and the Caribbean /	9,000.00	11,568.00	Provided	ODA	Grant	Adaptation	Energy	
Latin America and the Caribbean /	221,352.00	284,514.00	Provided	ODA	Grant	Adaptation	Industry	
Latin America and the Caribbean /	5,276,781.00	6,782,495.00	Provided	ODA	Grant	Adaptation	Other (Disasters prevention)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	108,117.00	138,967.00	Provided	ODA	Grant	Adaptation	Other (Environmental protection)	
Latin America and the Caribbean /	262,534.00	337,447.00	Provided	ODA	Grant	Adaptation	Other (Fishery)	
Latin America and the Caribbean /	340,000.00	437,018.00	Provided	ODA	Grant	Adaptation	Other (Food Development Programmes)	
Latin America and the Caribbean /	386,540.00	496,838.00	Provided	ODA	Grant	Adaptation	Other (Government and civil society)	
Latin America and the Caribbean /	251,822.00	323,678.00	Provided	ODA	Grant	Adaptation	Other (Health)	
Latin America and the Caribbean /	922,161.00	1,185,297.00	Provided	ODA	Grant	Adaptation	Other (Multisectorial)	
Latin America and the Caribbean /	33,331.00	42,841.00	Provided	ODA	Grant	Adaptation	Other (private sector and other services)	
Latin America and the Caribbean /	14,841.00	19,075.00	Provided	ODA	Grant	Adaptation	Other (social services and infrastructures)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	986,269.00	1,267,698.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Latin America and the Caribbean /	674,598.00	867,092.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
Latin America and the Caribbean /	24,395.00	31,356.00	Provided	ODA	Grant	Cross-cutting	Energy	
Latin America and the Caribbean /	12,375.00	15,906.00	Provided	ODA	Grant	Cross-cutting	Forestry	
Latin America and the Caribbean /	33,843.00	43,500.00	Provided	ODA	Grant	Cross-cutting	Not applicable	
Latin America and the Caribbean /	75,887.00	97,542.00	Provided	ODA	Grant	Cross-cutting	Other (Education and Capacity Building)	
Latin America and the Caribbean /	88,091.00	113,228.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
Latin America and the Caribbean /	44,348.00	57,003.00	Provided	ODA	Grant	Cross-cutting	Other (Fishery)	
Latin America and the Caribbean /	126,922.00	163,139.00	Provided	ODA	Grant	Cross-cutting	Other (Government and civil society)	
Latin America and the Caribbean /	6,000.00	7,712.00	Provided	ODA	Grant	Cross-cutting	Other (Health)	
Latin America and the Caribbean /	559,468.00	719,111.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	160,109.00	205,795.00	Provided	ODA	Grant	Cross-cutting	Other (Social services and infrastructures)	
Latin America and the Caribbean /	67,762.00	87,097.00	Provided	ODA	Grant	Cross-cutting	Water and sanitation	
Latin America and the Caribbean /	849,293.00	1,091,636.00	Provided	ODA	Grant	Mitigation	Agriculture	
Latin America and the Caribbean /	342,871.00	440,709.00	Provided	ODA	Grant	Mitigation	Energy	
Latin America and the Caribbean /	4,700.00	6,041.00	Provided	ODA	Grant	Mitigation	Other (Education and Capacity Building)	
Latin America and the Caribbean /	87,764.00	112,807.00	Provided	ODA	Grant	Mitigation	Other (Environmental protection)	
Latin America and the Caribbean /	32,395.00	41,639.00	Provided	ODA	Grant	Mitigation	Other (Government and civil society)	
Latin America and the Caribbean /	20,357.00	26,166.00	Provided	ODA	Grant	Mitigation	Other (Health)	
Latin America and the Caribbean /	24,590.00	31,607.00	Provided	ODA	Grant	Mitigation	Other (Multisectorial)	
Latin America and the Caribbean /	55,934.00	71,894.00	Provided	ODA	Grant	Mitigation	Water and sanitation	
South America /	263,762.00	339,026.00	Provided	ODA	Grant	Adaptation	Agriculture	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
South America /	63,029.00	81,014.00	Provided	ODA	Grant	Adaptation	Not applicable	
South America /	29,995.00	38,554.00	Provided	ODA	Grant	Adaptation	Other (Disasters prevention)	
South America /	5,751.00	7,392.00	Provided	ODA	Grant	Adaptation	Other (Education and Capacity Building)	
South America /	417,437.00	536,551.00	Provided	ODA	Grant	Adaptation	Other (Environmental protection)	
South America /	102,327.00	131,526.00	Provided	ODA	Grant	Adaptation	Other (Fishery)	
South America /	385,474.00	495,467.00	Provided	ODA	Grant	Adaptation	Other (Government and civil society)	
South America /	354,139.00	455,192.00	Provided	ODA	Grant	Adaptation	Other (Health)	
South America /	565,273.00	726,572.00	Provided	ODA	Grant	Adaptation	Other (Multisectorial)	
South America /	495,500.00	636,889.00	Provided	ODA	Grant	Adaptation	Other (social services and infrastructures)	



Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
South America /	68,168.00	87,619.00	Provided	ODA	Grant	Adaptation	Other (Tourism)	
South America /	1,290,246.00	1,658,413.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
South America /	841,616.00	1,081,768.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
South America /	258,319.00	332,029.00	Provided	ODA	Grant	Cross-cutting	Forestry	
South America /	40,517.00	52,079.00	Provided	ODA	Grant	Cross-cutting	Other (Education and Capacity Building)	
South America /	149,177.00	191,744.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
South America /	7,601.00	9,770.00	Provided	ODA	Grant	Cross-cutting	Other (Fishery)	
South America /	1,197,507.00	1,539,212.00	Provided	ODA	Grant	Cross-cutting	Other (Government and civil society)	
South America /	4,655.00	5,983.00	Provided	ODA	Grant	Cross-cutting	Other (Health)	
South America /	1,083,296.00	1,392,411.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
South America /	125,934.00	161,869.00	Provided	ODA	Grant	Cross-cutting	Other (social services and infrastructures)	
South America /	1,028,975.00	1,322,589.00	Provided	ODA	Grant	Cross-cutting	Water and sanitation	
South America /	346,022.00	444,758.00	Provided	ODA	Grant	Mitigation	Agriculture	
South America /	87,091.00	111,942.00	Provided	ODA	Grant	Mitigation	Energy	
South America /	27,165.00	34,916.00	Provided	ODA	Grant	Mitigation	Other (Environmental protection)	
South America /	5,250.00	6,748.00	Provided	ODA	Grant	Mitigation	Other (Government and civil society)	
South America /	6,127.00	7,875.00	Provided	ODA	Grant	Mitigation	Other (Health)	
South America /	101,985.00	131,086.00	Provided	ODA	Grant	Mitigation	Other (Multisectorial)	
South America /	68,000.00	87,404.00	Provided	ODA	Grant	Mitigation	Other (Tourism)	
South America /	15,218.00	19,560.00	Provided	ODA	Grant	Mitigation	Transport	
South America /	33,852.00	43,512.00	Provided	ODA	Grant	Mitigation	Water and sanitation	
Latin America and the Caribbean /	12,800.00	16,452.00	Provided	ODA	Grant	Adaptation	Other (Disasters prevention)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	21,600.00	27,763.00	Provided	ODA	Grant	Adaptation	Other (Environmental protection)	
Latin America and the Caribbean /	111,580.00	143,419.00	Provided	ODA	Grant	Adaptation	Other (Government and civil society)	
Latin America and the Caribbean /	35,481.00	45,605.00	Provided	ODA	Grant	Adaptation	Other (social services and infrastructures)	
Latin America and the Caribbean /	180,151.00	231,557.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Latin America and the Caribbean /	64,800.00	83,290.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
Latin America and the Caribbean /	10,800.00	13,882.00	Provided	ODA	Grant	Cross-cutting	Energy	
Latin America and the Caribbean /	57,600.00	74,036.00	Provided	ODA	Grant	Cross-cutting	Industry	
Latin America and the Caribbean /	54,000.00	69,409.00	Provided	ODA	Grant	Cross-cutting	Other (Communications)	
Latin America and the Caribbean /	135,416.00	174,057.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
Latin America and the Caribbean /	57,600.00	74,036.00	Provided	ODA	Grant	Cross-cutting	Other (Health)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Latin America and the Caribbean /	22,000.00	28,278.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	
Latin America and the Caribbean /	27,000.00	34,704.00	Provided	ODA	Grant	Mitigation	Energy	
Latin America and the Caribbean /	15,000.00	19,280.00	Provided	ODA	Grant	Mitigation	Other (Education and Capacity Building)	
Latin America and the Caribbean /	119,261.00	153,292.00	Provided	ODA	Grant	Mitigation	Water and sanitation	
Central Asia /	160,000.00	205,656.00	Provided	ODA	Grant	Adaptation	Other (Health)	
Central Asia /	6,960,744.00	8,946,972.00	Provided	ODA	Grant	Cross-cutting	Not applicable	
Central Asia /	120,000.00	154,242.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	
East Asia /	23,767.00	30,549.00	Provided	ODA	Grant	Adaptation	Agriculture	
East Asia /	305,584.00	392,781.00	Provided	ODA	Grant	Adaptation	Other (Disasters prevention)	
East Asia /	3,080.00	3,959.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
East Asia /	132,000.00	169,666.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
East Asia /	264,000.00	339,332.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
East Asia /	432,694.00	556,162.00	Provided	ODA	Grant	Cross-cutting	Other (social services and infrastructures)	
East Asia /	45,457.00	58,428.00	Provided	ODA	Grant	Mitigation	Energy	
East Asia /	39,704.00	51,033.00	Provided	ODA	Grant	Mitigation	Other (Multisectorial)	
South Asia /	62,610.00	80,476.00	Provided	ODA	Grant	Adaptation	Agriculture	
South Asia /	15,222.00	19,565.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Europe /	9,900.00	12,725.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Europe /	11,000.00	14,139.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	
Mediterranean /	22,500.00	28,920.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Mediterranean /	40,000.00	51,414.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
Mediterranean /	40,000.00	51,414.00	Provided	ODA	Grant	Mitigation	Transport	
North Africa /	9,072.00	11,660.00	Provided	ODA	Grant	Adaptation	Other (Environmental protection)	
North Africa /	13,630.00	17,519.00	Provided	ODA	Grant	Adaptation	Other (Health)	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
North Africa /	25,173.00	32,356.00	Provided	ODA	Grant	Adaptation	Other (Multisectorial)	
North Africa /	4,111.00	5,284.00	Provided	ODA	Grant	Adaptation	Other (social services and infrastructures)	
North Africa /	73,852.00	94,926.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
North Africa /	35,827.00	46,050.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
North Africa /	19,489.00	25,050.00	Provided	ODA	Grant	Cross-cutting	Forestry	
North Africa /	40,955.00	52,641.00	Provided	ODA	Grant	Cross-cutting	Other (Education and Capacity Building)	
North Africa /	21,993.00	28,269.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
North Africa /	126,000.00	161,954.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	
North Africa /	177,032.00	227,547.00	Provided	ODA	Grant	Cross-cutting	Water and sanitation	
North Africa /	51,487.00	66,178.00	Provided	ODA	Grant	Mitigation	Energy	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
North Africa /	3,063.00	3,937.00	Provided	ODA	Grant	Mitigation	Other (Multisectorial)	
North Africa /	62,554.00	80,404.00	Provided	ODA	Grant	Mitigation	Transport	
North Africa /	50,759.00	65,243.00	Provided	ODA	Grant	Mitigation	Water and sanitation	
Middle East /	275,471.00	354,076.00	Provided	ODA	Grant	Adaptation	Agriculture	
Middle East /	230,000.00	295,630.00	Provided	ODA	Grant	Adaptation	Not applicable	
Middle East /	267,767.00	344,173.00	Provided	ODA	Grant	Adaptation	Other (Health)	
Middle East /	68,708.00	88,314.00	Provided	ODA	Grant	Adaptation	Other (Reconstruction works)	
Middle East /	412,165.00	529,775.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Middle East /	47,622.00	61,211.00	Provided	ODA	Grant	Cross-cutting	Agriculture	
Middle East /	244,327.00	314,045.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental protection)	
Middle East /	421,072.00	541,223.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectorial)	
Middle East /	143,703.00	184,708.00	Provided	ODA	Grant	Mitigation	Agriculture	
Middle East /	15,780.00	20,282.00	Provided	ODA	Grant	Mitigation	Energy	
Developing countries, unspecified /	420,028.00	539,882.00	Provided	ODA	Grant	Adaptation	Not applicable	

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>European euro - EUR</i>	<i>USD</i>						
Developing countries, unspecified /	50,000.00	64,267.00	Provided	ODA	Grant	Adaptation	Other (Disasters prevention)	
Developing countries, unspecified /	93,492.00	120,169.00	Provided	ODA	Grant	Adaptation	Other (Enviroment al protection)	
Developing countries, unspecified /	8,000.00	10,283.00	Provided	ODA	Grant	Adaptation	Other (Fishery)	
Developing countries, unspecified /	286,000.00	367,609.00	Provided	ODA	Grant	Adaptation	Other (Health)	
Developing countries, unspecified /	19,886.00	25,561.00	Provided	ODA	Grant	Adaptation	Other (Multisectori al)	
Developing countries, unspecified /	318,118.00	408,892.00	Provided	ODA	Grant	Adaptation	Water and sanitation	
Developing countries, unspecified /	80,705.00	103,734.00	Provided	ODA	Grant	Cross-cutting	Not applicable	
Developing countries, unspecified /	732,135.00	941,047.00	Provided	ODA	Grant	Cross-cutting	Other (Enviroment al protection)	
Developing countries, unspecified /	110,000.00	141,388.00	Provided	ODA	Grant	Cross-cutting	Other (Health)	
Developing countries, unspecified /	56,910.00	73,149.00	Provided	ODA	Grant	Cross-cutting	Other (Multisectori al)	
Developing countries, unspecified /	86,949.00	111,760.00	Provided	ODA	Grant	Cross-cutting	Other (private sector and other services)	



Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

Recipient country/ region/project/programme <sup>b</sup>	Total amount		Status <sup>c</sup>	Funding source <sup>g</sup>	Financial instrument <sup>g</sup>	Type of support <sup>g, h</sup>	Sector <sup>d</sup>	Additional information <sup>e</sup>
	Climate-specific <sup>f</sup>							
	European euro - EUR	USD						
Developing countries, unspecified /	1,000,000.00	1,285,347.00	Provided	ODA	Grant	Mitigation	Agriculture	
Developing countries, unspecified /	59,990.00	77,107.00	Provided	ODA	Grant	Mitigation	Energy	
Developing countries, unspecified /	83,993.00	107,960.00	Provided	ODA	Grant	Mitigation	Not applicable	
Developing countries, unspecified /	46,636.00	59,943.00	Provided	ODA	Grant	Mitigation	Other (Health)	
Latin America and the Caribbean /	841,204.00	1,081,239.00	Provided	ODA	Concessional Loan	Adaptation	Water and sanitation	
Sub-Saharan Africa /	8,595,761.00	11,048,536.00	Provided	ODA	Concessional Loan	Cross-cutting	Industry, Agriculture	
North Africa /	68,052.00	87,470.00	Provided	ODA	Concessional Loan	Mitigation	Energy	
Montenegro /	83,699.00	107,582.00	Provided	OOF	Grant	Adaptation	Water and sanitation	
South Africa /	78,288.00	100,627.00	Provided	OOF	Grant	Mitigation	Energy	
Colombia /	33,701.00	43,318.00	Provided	OOF	Grant	Mitigation	Energy	
Mexico /	117,050.00	150,450.00	Provided	OOF	Grant	Mitigation	Energy	Technical assistance for the implementation of energy efficiency programs in the bovine cattle sector
China /	110,987.00	142,565.00	Provided	OOF	Grant	Mitigation	Other (Waste)	Technical assistance for the upgrade of a waste treatment system
Uruguay /	37,900,000.00	48,714,653.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	Financing for the construction and management of a wind farm in Maldonado
Kenya /	55,000,000.00	70,694,087.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	Electricity transmission line
Brazil /	20,000,000.00	25,706,941.00	Provided	OOF	Equity	Mitigation	Energy	Electricity transmission line

Table 7(b)

ESP\_BR1\_v0.1

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

Recipient country/ region/project/programme <sup>b</sup>	Total amount		Status <sup>c</sup>	Funding source <sup>g</sup>	Financial instrument <sup>g</sup>	Type of support <sup>g, h</sup>	Sector <sup>d</sup>	Additional information <sup>e</sup>
	Climate-specific <sup>f</sup>							
	European euro - EUR	USD						
Peru /	25,000,000.00	32,133,676.00	Provided	OOF	Equity	Mitigation	Energy	Electricity transmission line
India /	6,520,000.00	8,380,463.00	Provided	OOF	Non- Concessional Loan	Mitigation	Energy	Wind energy project
India /	720,000.00	925,450.00	Provided	OOF	Non- Concessional Loan	Mitigation	Energy	Solar energy project
South America /	33,331.00	42,841.00	Provided	ODA	Grant	Adaptation	Other (private sector and other services)	

*Abbreviations:* ODA = official development assistance, OOF = other official flows; USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

Table 8

Provision of technology development and transfer support<sup>a,b</sup>

Recipient country and/or region	Targeted area	Measures and activities related to technology transfer	Sector <sup>c</sup>	Source of the funding for technology transfer	Activities undertaken by	Status	Additional information <sup>d</sup>
Countries of West Africa (Pilot project in Cape Verde, Gambia, Mauritania and Senegal)	Adaptation	MARINMET - Transfer of marine meteorology technology for improving safety of navigation and fishing capacities	Other (Meteorology)	Public	Public	Planned	In co-operation with Las Palmas University. Financed by the World Meteorological Organisation through Spanish contributions.
South America	Adaptation	VIRTUAL CENTRE FOR EARLY WARNING: On-line Coordination of operational warnings of weather hazards by South American weather services	Other (Early warning)	Public	Public	Planned	In kind contributions of participants and technical support by AEMET (State Meteorology Agency in Spain)
Latin America and the Caribbean	Mitigation and Adaptation	Regional Gateway for Technology Transfer and Climate Change Action in Latin America and Caribbean (REGATTA project) - UNEP	Other (All sectors)	Public	Private and Public	Implemented	REGATTA's project is implemented by UNEP and supported mainly by Spain and other donors. Its main objective is to strengthen capacity and knowledge sharing of climate change technologies and experiences for adaptation and mitigation in Latin America and the Caribbean. The three main components are: on-line Knowledge Platform; key Institutions and Regional Centers of Knowledge and Technology; and specific assistance in mitigation and adaptation to climate change. Activities carried out in 2011 and 2012 can be found in: <a href="http://www.cambioclimatico-regatta.org/index.php/es/">http://www.cambioclimatico-regatta.org/index.php/es/</a> .
India	Mitigation	New cooperation program signed between CDTI (Spanish Centre for the Development of Industrial Technology) and Renewable Energy Ministry of INDIA (MNRE)	Other (Renewable Energy)	Public	Public	Planned	This programme supports future technological cooperation projects and R&D in the field of Renewable Energies
Burkina Faso, Benin, Cape Verde, Côte d'Ivoire, Ghana, Gambia, Guinea, Guinea-Bissau, Liberia, Mali, Nigeria, Niger, Senegal, Sierra Leone, Togo	Mitigation	ECREEE - Regional Centre for Renewable Energy in the ECOWAS (Region Economic Community Of West African States)	Other (Renewable energy and energy efficiency)	Public	Private and Public	Implemented	The objective of this Center is to promote renewable energy and energy efficiency technologies and projects in ECOWAS. The start up of the Center has been mainly supported by the Spanish Agency for International Development Cooperation (AECID) and has also been technically supported by IDAE (Spanish Institute for Energy Diversification and Saving). More information about the center: <a href="http://www.ecreee.org">www.ecreee.org</a>
Latin America and the Caribbean	Mitigation and Adaptation	Ibero-American Programme for Science, Technology and Development (CYTED)	Other (All sectors)	Public	Private and Public	Implemented	The CYTED Programme is an intergovernmental multilateral Science and Technology cooperation programme, which aims to combine different perspectives and visions to promote cooperation in Research and Innovation for the development of the Latin America region.
All Countries	Mitigation	Clean Energy Ministerial -Working Group Solar and Wind (Solar and Wind Atlas and Needs Assessment Capacity Building in Renewable Energy)	Other (Renewable Energy)	Public	Private and Public	Implemented	The most significant activities carried out by IDAE (Spanish Institute for Energy Diversification and Saving) together with the Spanish Ministry of Industry within this group were: Trainings; Global Solar and Wind Atlas, which will be extended to other technologies, such as geothermal and biomass; and Needs Assessment Capacity Building in Renewable Energy (CaDRE).
Latin America and the Caribbean	Mitigation and Adaptation	LATIPAT database (patents)	Other (All sectors)	Public	Public	Implemented	The Spanish Patent and Trademark Office (OEPM), together with the World Intellectual Property Organization (WIPO) and the European Patent Office (EPO), manages this database, which contains more than one and half million bibliographic data, and over a thousand images, concerning Latin American patents. This instrument has been built up over time, since its inception in 2003, into a reference global database. Besides the database the OEPM organizes several workshops on issues related to patents and intellectual property for the Latin American and the Caribbean region.

<sup>a</sup> To be reported to the extent possible.<sup>b</sup> The tables should include measures and activities since the last national communication or biennial report.<sup>c</sup> Parties may report sectoral disaggregation, as appropriate.<sup>d</sup> Additional information may include, for example, funding for technology development and transfer provided, a short description of the measure or activity and co-financing arrangements.

Table 9

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**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Latin American and the Caribbean, North Africa and ECOWAS	Mitigation	Capacity building activities. CIEMAT (Center for Energy, Technology and Environmental Research)	The objective of these capacity building activities is to transfer knowledge and technical management experience gained in the Spanish authority's public and private entities, by using modern methods and distance learning systems, based on new information technologies and telecommunications. The program offered by CIEMAT include: Management of Renewable Energy - Prospects for the future; Waste Management and treatment; and Renewable Energy Management.
Countries of West Africa (Originally Burkina-Faso and Mauritania, to be subsequently extended to Niger, Nigeria and Mali)	Technology Development and Transfer	HEALTHMET	The objective of this programme is to reinforce the institutional capacities and links between the meteorological, climatologically and health services. Co-ordinated with MERIT (Meningitis Environmental Risk Information Technologies) and other initiatives. Financed with Spanish funds, through the State Meteorology Agency in Spain (AEMET), within the World Meteorological Organisation.
Latin America and the Caribbean	Mitigation	Support and collaboration with several countries and with OLADE in issues related to Energy Efficiency and Renewable Energies activities	IDAE (the Spanish Institute for Energy Diversification and Saving) has maintained bilateral collaborations with most of the countries in the region as well as with relevant agencies, such as the Latin American Energy Organization (OLADE) or ONUDI on issues related to Energy Efficiency and Renewable Energies. IDAE has collaborated with several countries and participated in several important events such as: International and regional Fairs, Seminars and Meetings on clean technologies, renewable energies, energy efficiency and green buildings (2011&2012); the Second Technical Meeting of the Renewable Energy Observatory for Latin America and the Caribbean (Paraguay, 2011); and the Iberoamerican Meeting on Sustainable Development (EIMA8, Brasil, 2011).

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**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Latin America and the Caribbean	Technology Development and Transfer	Workshops (2011&2012) on Adaptation to climate change.	Capacity building workshops for public and private institutions in Latin-American on: “hydro-meteorological scenarios, environmental and economical impacts in the short, medium and long term”. Workshops carried out and supported by CEDEX (Spanish Centre for Public Works Studies and Experimentation)
Latin America and the Caribbean	Technology Development and Transfer	Workshops (2011&2012) on Artificial recharge of aquifers, climate change and saltwater intrusion.	Capacity building workshops for public and private institutions in Latin-American on “artificial recharge of aquifers, potential benefits and the use against the effects of climate change”. Workshops carried out and supported by CEDEX (Spanish Centre for Public Works Studies and Experimentation)
Latin America and the Caribbean (LAC), Europe and Africa	Mitigation	Several Renewable Energy Training Courses. CIEMAT (Center for Energy, Technology and Environmental Research)	Training courses highly specialized which covers: Concentrating Solar Systems, principles and commercial applications; Solar Power Technologies; Meteorology/Climatology, wind parks design; Extraction of Ocean-Wave Energy, Introductory Aspects; Basic Dimensioning and Energy Applications of Solar Photovoltaic; Solar Thermal Energy; Decontamination and disinfection of Water and Air by Solar Advanced Oxidation Processes; Renewable Energy and Energy Efficiency; Characterization of Solar Radiation as an Energy Resource; Meteorology and Solar Radiation Applied to Solar Thermal Power Plants; Information Day Smart Cities; etc.
Latin America and the Caribbean	Mitigation	Iberoamerican Network of Climate Change Offices (RIOCC) workshops: Programme of Activities of the CDM (2011)	The objective of this workshop is to focus on the different phases of the identification and implementation of the PoA of the CDM, analyzing practical examples and exchanging experiences of projects carried out by countries in different sectors. Workshop financed by Spain.

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**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Latin America and the Caribbean	Technology Development and Transfer	Workshops (2011&2012) on Climate Change and groundwater.	Capacity building workshops for public and private institutions in Latin-American on: "hydrogeology and the development of man incidence on groundwater, including the possible effects of climate change on its quality and quantity". Workshops carried out and supported by CEDEX (Spanish Centre for Public Works Studies and Experimentation)
Latin America and the Caribbean	Multiple Areas	Iberoamerican Network of Climate Change Offices (RIOCC): Annual meetings (2011&2012)	The Iberoamerican Climate Change Offices Network is a platform that works with the aim of maintaining a continued dialogue among countries on climate change to better understand the priorities, challenges and experiences of the iberoamerican region. The RIOCC meets formally on an annual basis and promotes several regional capacity building workshops and regional studies in those areas identified as a priority for the countries. The meetings and activities are mostly funded by Spain. The results of the last annual meetings as well as the last workshops and other activities are in <a href="http://www.lariocc.es">www.lariocc.es</a> .
Latin America and the Caribbean	Technology Development and Transfer	Iberoamerican Network of Climate Change Offices (RIOCC) workshops: "Climate Change impacts on Latin America and the Caribbean coastal areas" (2011&2012)	The objective of these workshops is to transfer the knowledge, methodology and results of the project "Climate Change impacts in the Latin America and the Caribbean coastal areas Regional Study" carried out by the University of Cantabria, the Economic Commission for Latin American and the Caribbean (ECLAC) and the Spanish Ministry of Agriculture, Food and the Environment. More information about the project can be found at <a href="http://www.cepal.org/id.asp?id=48025">www.cepal.org/id.asp?id=48025</a>

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**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Latin America and the Caribbean	Mitigation	UNIDO Project	The aim of the UNIDO project is to provide a solid and specialized education&training in renewable energy deployment in the Renewable Energy Observatory of Latin America and Caribbean. Through this program professionals learn more about the fundamentals of different technologies and energy analysis, planning and evaluation of renewable energy projects, as well as enable the participants to deal with practical situations and geographical conditions associated in the region of Latin America and the Caribbean (LAC).
Latin America and the Caribbean	Technology Development and Transfer	Workshops (2011&2012) on Climate change and their impact on water resources.	Capacity building workshops for public and private institutions in Latin-American on: “impacts of climate change on the risk of floods and droughts, climate scenarios, new risk areas and case studies”. Workshops carried out and supported by CEDEX (Spanish Centre for Public Works Studies and Experimentation)

<sup>a</sup> To be reported to the extent possible.

<sup>b</sup> Each Party included in Annex II to the Convention shall provide information, to the extent possible, on how it has provided capacity-building support that responds to the existing and emerging capacity-building needs identified by Parties not included in Annex I to the Convention in the areas of mitigation, adaptation and technology development and transfer.

<sup>c</sup> Additional information may be provided on, for example, the measure or activity and co-financing arrangements.

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# Primer Informe Bienal de España

Convención Marco de las Naciones Unidas sobre el  
Cambio Climático

Diciembre 2013



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE AGRICULTURA, ALIMENTACIÓN  
Y MEDIO AMBIENTE