

Spain

	Scenario	In/excl. ACEA agreement in the baseline	Allocation of industrial boilers
SPwACEA1	Member State based objectives	including ACEA agreement in the baseline	industrial boilers allocated to industrial sectors
SPwACEA2	Member State based objectives	including ACEA agreement in the baseline	industrial boilers allocated to energy industries

Source: PRIMES/ECOFYS (2001)
http://europa.eu.int/comm/environment/enveco/climate_change/sectoral_objectives.htm

SPAIN (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to industrial sectors

marginal cost: 12.01 Euro'99 per t of CO2 eq.

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
Energy supply																
CO2 (fuel related)	74.7	100.0	92.1	23.3%	-7.9%						0.0	0.0	0.0	-	-	7.9
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	1.3	1.3	1.3	0.0%	0.0%						1.3	1.3	1.3	0.0%	0.0%	0.0
N2O	5.6	3.8	3.5	-36.8%	-7.0%						5.6	3.8	3.5	-36.8%	-7.0%	0.3
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.1	0.1	0.1	-20.0%	-20.0%						0.1	0.1	0.1	-20.0%	-20.0%	0.0
Sub-total	81.7	105.2	97.1	18.8%	-7.7%						7.0	5.2	5.0	-29.5%	-5.5%	8.1
Fossil fuel extraction, transport and distribution																
CO2 (fuel related)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	14.4	11.9	10.4	-27.7%	-12.6%						14.4	11.9	10.4	-27.7%	-12.6%	1.5
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	14.4	11.9	10.4	-27.7%	-12.6%						14.4	11.9	10.4	-27.7%	-12.6%	1.5
Industry																
CO2 (fuel related)	40.6	41.3	40.6	0.1%	-1.7%	37.6	43.4	40.3	7.1%	-7.2%	78.1	84.7	80.8	3.5%	-4.5%	0.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	5.3	7.1	2.4	-54.1%	-66.0%						5.3	7.1	2.4	-54.1%	-66.0%	4.7
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Sub-total	70.0	73.9	65.1	-6.9%	-11.9%	37.6	43.4	40.3	7.1%	-7.2%	107.6	117.3	105.4	-2.0%	-10.2%	8.8
Transport																
CO2 (fuel related)	65.6	95.6	94.8	44.4%	-0.8%	2.2	3.0	2.7	25.2%	-8.9%	67.8	98.5	97.5	43.8%	-1.0%	0.7
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.3	0.2	0.2	-35.0%	0.0%						0.3	0.2	0.2	-35.0%	0.0%	0.0
N2O	0.6	2.7	2.7	342.0%	0.0%						0.6	2.7	2.7	342.0%	0.0%	0.0
HFC	0.1	2.0	1.4	1310.6%	-28.4%						0.1	2.0	1.4	1310.6%	-28.4%	0.6
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	66.6	100.4	99.1	48.8%	-1.3%	2.2	3.0	2.7	25.2%	-8.9%	68.8	103.4	101.9	48.1%	-1.5%	1.3
Households																
CO2 (fuel related)	12.8	14.1	13.7	6.8%	-2.5%	17.9	25.6	23.8	32.4%	-7.4%	30.8	39.7	37.5	21.7%	-5.7%	0.4
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.1	0.0	-	-62.7%						0.0	0.1	0.0	-	-62.7%	0.1
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	12.8	14.2	13.8	7.1%	-3.0%	17.9	25.6	23.8	32.4%	-7.4%	30.8	39.8	37.5	21.8%	-5.8%	0.4
Services																
CO2 (fuel related)	7.5	14.4	13.5	79.2%	-6.7%	17.0	28.0	25.4	49.1%	-9.3%	24.5	42.4	38.8	58.3%	-8.4%	1.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.4	0.4	-	0.0%						0.0	0.4	0.4	-	0.0%	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	7.5	14.8	13.9	84.5%	-6.5%	17.0	28.0	25.4	49.1%	-9.3%	24.5	42.8	39.2	60.0%	-8.3%	1.0
Agriculture																
CO2 (fuel related)	0.6	1.1	1.1	77.3%	-0.8%	0.0	0.0	0.0	-	-	0.6	1.1	1.1	77.3%	-0.8%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	19.4	22.2	22.0	13.0%	-1.2%						19.4	22.2	22.0	13.0%	-1.2%	0.3
N2O	19.8	20.2	19.6	-1.3%	-3.2%						19.8	20.2	19.6	-1.3%	-3.2%	0.7
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	39.9	43.6	42.6	6.9%	-2.1%	0.0	0.0	0.0	-	-	39.9	43.6	42.6	6.9%	-2.1%	0.9
Waste																
CO2 (fuel related)	0.0	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	10.3	10.2	6.8	-34.0%	-33.4%						10.3	10.2	6.8	-34.0%	-33.4%	3.4
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	10.3	10.2	6.8	-34.0%	-33.4%	0.0	0.0	0.0	-	-	10.3	10.2	6.8	-34.0%	-33.4%	3.4
All sectors																
CO2 (fuel related)	201.9	266.4	255.8	26.7%	-4.0%						201.9	266.4	255.8	26.7%	-4.0%	10.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	45.8	46.0	40.8	-11.0%	-11.3%						45.8	46.0	40.8	-11.0%	-11.3%	5.2
N2O	29.1	29.5	27.0	-7.3%	-8.3%						29.1	29.5	27.0	-7.3%	-8.3%	2.4
HFC	5.4	9.6	4.3	-20.2%	-55.5%						5.4	9.6	4.3	-20.2%	-55.5%	5.3
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.2	0.4	0.1	-58.1%	-78.5%						0.2	0.4	0.1	-58.1%	-78.5%	0.3
Total	303.3	374.3	348.8	15.0%	-6.8%						303.3	374.3	348.8	15.0%	-6.8%	25.5

SPAIN (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to industrial sectors

marginal cost: 12.01 Euro'99 per t of CO2 eq.

Industrial sectors

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
Iron and steel																
CO2 (fuel related)	11.4	7.1	6.7	-41.1%	-5.8%	5.7	5.1	4.8	-15.6%	-5.7%	17.1	12.2	11.5	-32.7%	-5.7%	0.4
CO2 (other)	1.4	1.5	1.5	4.0%	0.0%						1.4	1.5	1.5	4.0%	0.0%	0.0
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	12.9	8.6	8.2	-36.1%	-4.8%	5.7	5.1	4.8	-15.6%	-5.7%	18.5	13.7	13.0	-29.8%	-5.1%	0.4
Non-ferrous metals																
CO2 (fuel related)	0.9	0.9	0.9	-5.0%	-0.8%	4.8	2.8	2.5	-47.4%	-8.0%	5.7	3.6	3.4	-40.7%	-6.3%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	3.2	2.0	0.6	-82.1%	-70.9%						3.2	2.0	0.6	-82.1%	-70.9%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Sub-total	4.2	3.1	1.4	-65.7%	-54.1%	4.8	2.8	2.5	-47.4%	-8.0%	9.0	5.9	4.0	-55.9%	-32.4%	1.7
Chemicals																
CO2 (fuel related)	5.7	9.1	8.9	56.1%	-2.2%	6.1	6.5	6.1	0.1%	-5.0%	11.8	15.6	15.1	27.1%	-3.3%	0.2
CO2 (other)	0.7	0.9	0.9	25.0%	0.0%						0.7	0.9	0.9	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	4.0	4.0	0.2	-95.0%	-95.0%						4.0	4.0	0.2	-95.0%	-95.0%	3.8
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	13.5	16.7	11.2	-17.2%	-32.9%	6.1	6.5	6.1	0.1%	-5.0%	19.6	23.1	17.3	-11.8%	-25.1%	5.5
Building Materials																
CO2 (fuel related)	11.1	12.0	11.9	8.0%	-0.3%	4.1	3.5	3.3	-20.6%	-7.9%	15.2	15.5	15.2	0.2%	-2.0%	0.0
CO2 (other)	15.1	17.0	16.9	11.9%	-1.0%						15.1	17.0	16.9	11.9%	-1.0%	0.2
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	26.1	29.0	28.8	10.3%	-0.7%	4.1	3.5	3.3	-20.6%	-7.9%	30.2	32.5	32.1	6.1%	-1.5%	0.2
Paper and Pulp																
CO2 (fuel related)	2.2	2.7	2.7	18.0%	-1.0%	2.4	6.0	5.5	133.4%	-7.7%	4.6	8.7	8.2	77.1%	-5.6%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	2.2	2.7	2.7	18.0%	-1.0%	2.4	6.0	5.5	133.4%	-7.7%	4.6	8.7	8.2	77.1%	-5.6%	0.0
Food, drink and tobacco																
CO2 (fuel related)	3.5	3.2	3.1	-11.2%	-1.0%	3.4	7.4	6.9	100.3%	-7.5%	7.0	10.6	10.0	43.8%	-5.6%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.3	0.0	-	-100.0%						0.0	0.3	0.0	-	-100.0%	0.3
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	3.5	3.4	3.1	-11.2%	-8.6%	3.4	7.4	6.9	100.3%	-7.5%	7.0	10.9	10.0	43.8%	-7.8%	0.3
Other industries																
CO2 (fuel related)	5.7	6.4	6.4	11.7%	-0.2%	11.0	12.1	11.2	1.0%	-8.1%	16.7	18.5	17.5	4.6%	-5.3%	0.0
CO2 (other)	0.5	0.6	0.6	25.0%	0.0%						0.5	0.6	0.6	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	1.3	2.9	2.2	72.6%	-22.7%						1.3	2.9	2.2	72.6%	-22.7%	0.7
PFC	0.1	0.5	0.5	659.8%	-6.6%						0.1	0.5	0.5	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	7.6	10.4	9.7	28.6%	-6.7%	11.0	12.1	11.2	1.0%	-8.1%	18.6	22.6	20.9	12.2%	-7.4%	0.7
Total industry																
CO2 (fuel related)	40.6	41.3	40.6	0.1%	-1.7%	37.6	43.4	40.3	7.1%	-7.2%	78.1	84.7	80.8	3.5%	-4.5%	0.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	5.3	7.1	2.4	-54.1%	-66.0%						5.3	7.1	2.4	-54.1%	-66.0%	4.7
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Total industry	70.0	73.9	65.1	-6.9%	-11.9%	37.6	43.4	40.3	7.1%	-7.2%	107.6	117.3	105.4	-2.0%	-10.2%	8.8

SPAIN (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 12.01 Euro'99 per t of CO2 eq.
Transport sector (CO2)

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
by transport mean																
road	52.5	75.0	74.8	42.3%	-0.4%	2.2	3.0	2.7	25.2%	-8.9%	52.5	75.0	74.8	42.3%	-0.4%	0.3
train	0.7	0.2	0.2	-72.3%	-3.6%						2.8	3.2	2.9	2.7%	-8.6%	0.0
aviation	7.3	12.3	11.9	62.2%	-3.3%						7.3	12.3	11.9	62.2%	-3.3%	0.4
inl. navigation	5.1	8.1	8.0	56.3%	-0.6%						5.1	8.1	8.0	56.3%	-0.6%	0.0
by transport activity (base year: 1995)																
passenger	44.6	50.9	50.5	13.3%	-0.7%						44.6	50.9	50.5	13.3%	-0.7%	0.4
freight	32.3	44.7	44.3	37.0%	-0.8%						32.3	44.7	44.3	37.0%	-0.8%	0.4
Sub-total	65.6	95.6	94.8	44.4%	-0.8%	2.2	3.0	2.7	25.2%	-8.9%	67.8	98.5	97.5	43.8%	-1.0%	0.7

SPAIN (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 12.01 Euro'99 per t of CO2 eq.
Energy supply (CO2)

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
by generator																
industrial generators	1.6	23.2	24.3	1399.7%	4.7%											-1.1
other generators	0.0	0.0	0.0	-	-											0.0
utilities	61.6	70.7	62.0	0.7%	-12.3%											8.7
boilers in	7.2	1.9	1.8	-75.1%	-6.2%											0.1
industry	0.0	0.0	0.0	-	-											0.0
refineries	7.2	1.9	1.8	-75.1%	-6.2%											0.1
district heating	0.0	0.0	0.0	-	-											0.0
fuel extraction and refining	4.3	4.2	4.0	-7.0%	-4.2%											0.2
Sub-total	74.7	100.0	92.1	23.3%	-7.9%											7.9

SPAIN (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 12.01 Euro'99 per t of CO2 eq.

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
Energy supply																
CO2 (fuel related)	82.8	105.6	97.8	18.1%	-7.4%											7.9
CO2 (other)	0.0	0.0	0	-	-						0.0	0.0	0	-	-	0.0
CH4	1.3	1.3	1.3	0.0%	0.0%						1.3	1.3	1.3	0.0%	0.0%	0.0
N2O	5.6	3.8	3.5	-36.8%	-7.0%						5.6	3.8	3.5	-36.8%	-7.0%	0.3
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.1	0.1	0.1	-20.0%	-20.0%						0.1	0.1	0.1	-20.0%	-20.0%	0.0
Sub-total	89.8	110.9	102.7	14.4%	-7.3%						7.0	5.2	5.0	-29.5%	-5.5%	8.1
Fossil fuel extraction, transport and distribution																
CO2 (fuel related)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CO2 (other)	0.0	0.0	0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	14.4	11.9	10.4	-27.7%	-12.6%						14.4	11.9	10.4	-27.7%	-12.6%	1.5
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	14.4	11.9	10.4	-27.7%	-12.6%						14.4	11.9	10.4	-27.7%	-12.6%	1.5
Industry																
CO2 (fuel related)	32.5	35.6	34.9	7.4%	-2.0%	51.2	50.5	47.1	-8.0%	-6.8%	83.7	86.2	82.0	-2.0%	-4.8%	0.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	5.3	7.1	2.4	-54.1%	-66.0%						5.3	7.1	2.4	-54.1%	-66.0%	4.7
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Sub-total	61.9	68.3	59.5	-4.0%	-12.9%	51.2	50.5	47.1	-8.0%	-6.8%	113.1	118.8	106.5	-5.8%	-10.3%	8.8
Transport																
CO2 (fuel related)	65.6	95.6	94.8	44.4%	-0.8%	1.9	2.9	2.7	43.7%	-8.5%	67.5	98.5	97.5	44.4%	-1.0%	0.7
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.3	0.2	0.2	-35.0%	0.0%						0.3	0.2	0.2	-35.0%	0.0%	0.0
N2O	0.6	2.7	2.7	342.0%	0.0%						0.6	2.7	2.7	342.0%	0.0%	0.0
HFC	0.1	2.0	1.4	1310.6%	-28.4%						0.1	2.0	1.4	1310.6%	-28.4%	0.6
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	66.6	100.4	99.1	48.8%	-1.3%	1.9	2.9	2.7	43.7%	-8.5%	68.5	103.4	101.8	48.7%	-1.5%	1.3
Households																
CO2 (fuel related)	12.8	14.1	13.7	6.8%	-2.5%	15.3	25.0	23.2	52.1%	-7.0%	28.1	39.0	36.9	31.4%	-5.4%	0.4
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.1	0.0	-	-62.7%						0.0	0.1	0.0	-	-62.7%	0.1
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	12.8	14.2	13.8	7.1%	-3.0%	15.3	25.0	23.2	52.1%	-7.0%	28.1	39.2	37.0	31.5%	-5.6%	0.4
Services																
CO2 (fuel related)	7.5	14.4	13.5	79.2%	-6.7%	14.5	27.2	24.8	71.3%	-8.9%	22.0	41.7	38.3	74.0%	-8.1%	1.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.4	0.4	-	0.0%						0.0	0.4	0.4	-	0.0%	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	7.5	14.8	13.9	84.5%	-6.5%	14.5	27.2	24.8	71.3%	-8.9%	22.0	42.1	38.7	75.8%	-8.1%	1.0
Agriculture																
CO2 (fuel related)	0.6	1.1	1.1	77.3%	-0.8%	0.0	0.0	0.0	-	-	0.6	1.1	1.1	77.3%	-0.8%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	19.4	22.2	22.0	13.0%	-1.2%						19.4	22.2	22.0	13.0%	-1.2%	0.3
N2O	19.8	20.2	19.6	-1.3%	-3.2%						19.8	20.2	19.6	-1.3%	-3.2%	0.7
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	39.9	43.6	42.6	6.9%	-2.1%	0.0	0.0	0.0	-	-	39.9	43.6	42.6	6.9%	-2.1%	0.9
Waste																
CO2 (fuel related)	0.0	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	10.3	10.2	6.8	-34.0%	-33.4%						10.3	10.2	6.8	-34.0%	-33.4%	3.4
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	10.3	10.2	6.8	-34.0%	-33.4%	0.0	0.0	0.0	-	-	10.3	10.2	6.8	-34.0%	-33.4%	3.4
All sectors																
CO2 (fuel related)	201.9	266.4	255.8	26.7%	-4.0%						201.9	266.4	255.8	26.7%	-4.0%	10.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	45.8	46.0	40.8	-11.0%	-11.3%						45.8	46.0	40.8	-11.0%	-11.3%	5.2
N2O	29.1	29.5	27.0	-7.3%	-8.3%						29.1	29.5	27.0	-7.3%	-8.3%	2.4
HFC	5.4	9.6	4.3	-20.2%	-55.5%						5.4	9.6	4.3	-20.2%	-55.5%	5.3
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.2	0.4	0.1	-58.1%	-78.5%						0.2	0.4	0.1	-58.1%	-78.5%	0.3
Total	303.3	374.3	348.8	15.0%	-6.8%						303.3	374.3	348.8	15.0%	-6.8%	25.5

SPAIN (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to energy industries

marginal cost: 12.01 Euro'99 per t of CO2 eq.

Industrial sectors

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
Iron and steel																
CO2 (fuel related)	11.4	7.2	6.8	-40.4%	-5.6%	4.9	5.0	4.7	-4.4%	-5.3%	16.3	12.1	11.5	-29.6%	-5.5%	0.4
CO2 (other)	1.4	1.5	1.5	4.0%	0.0%						1.4	1.5	1.5	4.0%	0.0%	0.0
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	12.8	8.7	8.3	-35.5%	-4.7%	4.9	5.0	4.7	-4.4%	-5.3%	17.7	13.6	13.0	-26.8%	-4.9%	0.4
Non-ferrous metals																
CO2 (fuel related)	0.9	0.9	0.9	-5.0%	-0.8%	4.1	2.7	2.5	-39.6%	-7.6%	5.0	3.6	3.3	-33.4%	-6.0%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	3.2	2.0	0.6	-82.1%	-70.9%						3.2	2.0	0.6	-82.1%	-70.9%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Sub-total	4.2	3.1	1.4	-65.8%	-54.1%	4.1	2.7	2.5	-39.6%	-7.6%	8.3	5.8	3.9	-52.8%	-32.5%	1.7
Chemicals																
CO2 (fuel related)	2.7	8.0	7.8	186.9%	-2.7%	10.4	8.2	7.9	-24.3%	-4.7%	13.1	16.3	15.7	19.7%	-3.7%	0.2
CO2 (other)	0.7	0.9	0.9	25.0%	0.0%						0.7	0.9	0.9	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	4.0	4.0	0.2	-95.0%	-95.0%						4.0	4.0	0.2	-95.0%	-95.0%	3.8
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	10.5	15.6	10.1	-4.0%	-35.3%	10.4	8.2	7.9	-24.3%	-4.7%	20.9	23.8	17.9	-14.1%	-24.7%	5.5
Building Materials																
CO2 (fuel related)	11.1	11.2	11.1	0.7%	-0.5%	3.5	3.5	3.2	-8.8%	-7.5%	14.6	14.6	14.3	-1.6%	-2.1%	0.1
CO2 (other)	15.1	17.0	16.9	11.9%	-1.0%						15.1	17.0	16.9	11.9%	-1.0%	0.2
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	26.1	28.2	28.0	7.2%	-0.8%	3.5	3.5	3.2	-8.8%	-7.5%	29.6	31.7	31.2	5.3%	-1.5%	0.2
Paper and Pulp																
CO2 (fuel related)	2.2	1.9	1.8	-17.7%	-0.5%	7.0	8.1	7.5	7.2%	-7.4%	9.2	9.9	9.3	1.1%	-6.1%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	2.2	1.9	1.8	-17.7%	-0.5%	7.0	8.1	7.5	7.2%	-7.4%	9.2	9.9	9.3	1.1%	-6.1%	0.0
Food, drink and tobacco																
CO2 (fuel related)	0.6	1.1	1.1	91.6%	-2.5%	8.0	9.8	9.1	12.9%	-7.2%	8.6	10.9	10.1	18.0%	-6.7%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.3	0.0	-	-100.0%						0.0	0.3	0.0	-	-100.0%	0.3
PFC	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	0.6	1.4	1.1	91.6%	-21.3%	8.0	9.8	9.1	12.9%	-7.2%	8.6	11.1	10.1	18.0%	-8.9%	0.3
Other industries																
CO2 (fuel related)	3.6	5.4	5.4	48.0%	-0.2%	13.3	13.4	12.3	-7.0%	-7.7%	16.9	18.8	17.7	4.8%	-5.5%	0.0
CO2 (other)	0.5	0.6	0.6	25.0%	0.0%						0.5	0.6	0.6	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	1.3	2.9	2.2	72.6%	-22.7%						1.3	2.9	2.2	72.6%	-22.7%	0.7
PFC	0.1	0.5	0.5	659.8%	-6.6%						0.1	0.5	0.5	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	5.5	9.4	8.8	58.9%	-7.4%	13.3	13.4	12.3	-7.0%	-7.7%	18.8	22.8	21.1	12.3%	-7.6%	0.7
Total industry																
CO2 (fuel related)	32.5	35.6	34.9	7.4%	-2.0%	51.2	50.5	47.1	-8.0%	-6.8%	83.7	86.2	82.0	-2.0%	-4.8%	0.7
CO2 (other)	17.7	20.0	19.8	12.2%	-0.8%						17.7	20.0	19.8	12.2%	-0.8%	0.2
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	3.1	2.7	1.2	-61.9%	-56.3%						3.1	2.7	1.2	-61.9%	-56.3%	1.5
HFC	5.3	7.1	2.4	-54.1%	-66.0%						5.3	7.1	2.4	-54.1%	-66.0%	4.7
PFC	3.2	2.5	1.1	-66.9%	-57.0%						3.2	2.5	1.1	-66.9%	-57.0%	1.4
SF6	0.1	0.3	0.0	-100.0%	-100.0%						0.1	0.3	0.0	-100.0%	-100.0%	0.3
Total industry	61.9	68.3	59.5	-4.0%	-12.9%	51.2	50.5	47.1	-8.0%	-6.8%	113.1	118.8	106.5	-5.8%	-10.3%	8.8

SPAIN (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 12.01 Euro'99 per t of CO2 eq.
Transport sector (CO2)

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
by transport mean																
road	52.5	75.0	74.8	42.3%	-0.4%	1.9	2.9	2.7	43.7%	-8.5%	52.5	75.0	74.8	42.3%	-0.4%	0.3
train	0.7	0.2	0.2	-72.3%	-3.6%						2.5	3.1	2.8	13.6%	-8.2%	0.0
aviation	7.3	12.3	11.9	62.2%	-3.3%						7.3	12.3	11.9	62.2%	-3.3%	0.4
inl. navigation	5.1	8.1	8.0	56.3%	-0.6%						5.1	8.1	8.0	56.3%	-0.6%	0.0
by transport activity (base year: 1995)																
passenger	44.6	50.9	50.5	13.3%	-0.7%						44.6	50.9	50.5	13.3%	-0.7%	0.4
freight	32.3	44.7	44.3	37.0%	-0.8%						32.3	44.7	44.3	37.0%	-0.8%	0.4
Sub-total	65.6	95.6	94.8	44.4%	-0.8%	1.9	2.9	2.7	43.7%	-8.5%	67.5	98.5	97.5	44.4%	-1.0%	0.7

SPAIN (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 12.01 Euro'99 per t of CO2 eq.
Energy supply (CO2)

Emission (Mt of CO2 equivalent)	Direct emissions (Mt CO2 eq.)					Indirect emissions (Mt CO2 eq.)					Direct and indirect emissions (Mt CO2 eq.)					Reduction Direct Emission reduction from baseline levels (Mt CO2 eq.)
	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	Emissions in 1990 or 1995	Emissions in 2010 under baseline conditions	Emissions in 2010 under Kyoto target conditions	% Change from 1990 or 1995	% Change from 2010 baseline	
by generator																
industrial generators	1.6	23.2	24.3	1399.7%	4.7%											-1.1
other generators	0.0	0.0	0.0	-	-											0.0
utilities	61.6	70.7	62.0	0.7%	-12.3%											8.7
boilers in	15.3	7.6	7.5	-51.1%	-1.4%											0.1
industry	8.1	5.7	5.7	-29.6%	0.2%											0.0
refineries	7.2	1.9	1.8	-75.1%	-6.2%											0.1
district heating	0.0	0.0	0.0	-	-											0.0
fuel extraction and refining	4.3	4.2	4.0	-7.0%	-4.2%											0.2
Sub-total	82.8	105.6	97.8	18.1%	-7.4%											7.9