

United Kingdom

	Scenario	In/excl. ACEA agreement in the baseline	Allocation of industrial boilers
UKwACEA1	Member State based objectives	including ACEA agreement in the baseline	industrial boilers allocated to industrial sectors
UKwACEA2	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

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 11.53 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)	244.7	212.5	193.9	-20.8%	-8.8%												18.6
CO2 (other)	0.0	0.0	0	-	-						0.0	0.0	0	-	-		0.0
CH4	1.9	1.9	1.9	0.0%	0.0%						1.9	1.9	1.9	0.0%	0.0%		0.0
N2O	4.0	2.8	2.6	-36.2%	-7.5%						4.0	2.8	2.6	-36.2%	-7.5%		0.2
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	0.9	0.9	0.7	-20.0%	-20.0%						0.9	0.9	0.7	-20.0%	-20.0%		0.2
Sub-total	251.4	218.1	199.0	-20.8%	-8.7%						6.8	5.5	5.1	-24.1%	-6.9%		19.0
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	27.9	15.2	11.9	-57.2%	-21.4%						27.9	15.2	11.9	-57.2%	-21.4%		3.2
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	27.9	15.2	11.9	-57.2%	-21.4%						27.9	15.2	11.9	-57.2%	-21.4%		3.2
Industry																	
CO2 (fuel related)	78.2	64.6	61.5	-21.4%	-4.8%	92.6	84.9	78.5	-15.3%	-7.5%	170.8	149.4	140.0	-18.1%	-6.3%		3.1
CO2 (other)	13.9	15.6	15.5	11.3%	-0.7%						13.9	15.6	15.5	11.3%	-0.7%		0.1
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%		0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%		2.7
HFC	8.7	6.2	3.6	-58.5%	-42.2%						8.7	6.2	3.6	-58.5%	-42.2%		2.6
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%		0.4
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%		0.4
Sub-total	131.2	98.4	89.2	-32.0%	-9.4%	92.6	84.9	78.5	-15.3%	-7.5%	223.8	183.3	167.7	-25.1%	-8.5%		9.2
Transport																	
CO2 (fuel related)	132.4	156.6	153.8	16.2%	-1.8%	4.6	7.8	7.0	50.6%	-10.5%	137.0	164.3	160.8	17.4%	-2.2%		2.7
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-		0.0
CH4	0.6	0.3	0.3	-55.0%	0.0%						0.6	0.3	0.3	-55.0%	0.0%		0.0
N2O	1.2	3.1	3.1	149.0%	0.0%						1.2	3.1	3.1	149.0%	0.0%		0.0
HFC	0.2	3.8	2.8	1242.3%	-28.2%						0.2	3.8	2.8	1242.3%	-28.2%		1.1
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	134.4	163.8	159.9	19.0%	-2.3%	4.6	7.8	7.0	50.6%	-10.5%	139.1	171.6	166.9	20.0%	-2.7%		3.8
Households																	
CO2 (fuel related)	88.1	80.6	78.7	-10.6%	-2.3%	82.1	52.6	48.0	-41.6%	-8.8%	170.1	133.1	126.7	-25.5%	-4.9%		1.8
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	0.2	0.1	-	-62.7%						0.0	0.2	0.1	-	-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	88.1	80.8	78.8	-10.5%	-2.5%	82.1	52.6	48.0	-41.6%	-8.8%	170.1	133.4	126.8	-25.5%	-5.0%		2.0
Services																	
CO2 (fuel related)	23.2	42.3	38.4	65.8%	-9.2%	65.4	67.3	60.5	-7.4%	-10.1%	88.6	109.6	98.9	11.7%	-9.8%		3.9
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	0.8	0.8	-	0.0%						0.0	0.8	0.8	-	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	23.2	43.1	39.2	69.1%	-9.0%	65.4	67.3	60.5	-7.4%	-10.1%	88.6	110.4	99.7	12.6%	-9.7%		3.9
Agriculture																	
CO2 (fuel related)	0.4	0.7	0.7	72.8%	-4.4%	0.0	0.0	0.0	-	-	0.4	0.7	0.7	72.8%	-4.4%		0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-		0.0
CH4	21.8	20.4	19.3	-11.5%	-5.6%						21.8	20.4	19.3	-11.5%	-5.6%		1.2
N2O	31.0	28.2	27.5	-11.2%	-2.6%						31.0	28.2	27.5	-11.2%	-2.6%		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	53.2	49.4	47.5	-10.7%	-3.9%	0.0	0.0	0.0	-	-	53.2	49.4	47.5	-10.7%	-3.9%		1.9
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)	0.7	0.7	0.7	0.0%	0.0%						0.7	0.7	0.7	0.0%	0.0%		0.0
CH4	24.2	21.7	16.1	-33.4%	-25.8%						24.2	21.7	16.1	-33.4%	-25.8%		5.6
N2O	0.3	0.3	0.3	0.0%	0.0%						0.3	0.3	0.3	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	25.1	22.6	17.0	-32.1%	-24.7%	0.0	0.0	0.0	-	-	25.1	22.6	17.0	-32.1%	-24.7%		5.6
All sectors																	
CO2 (fuel related)	566.9	557.3	527.1	-7.0%	-5.4%						566.9	557.3	527.1	-7.0%	-5.4%		30.2
CO2 (other)	14.6	16.3	16.2	10.8%	-0.7%						14.6	16.3	16.2	10.8%	-0.7%		0.1
CH4	76.4	59.5	49.5	-35.2%	-16.8%						76.4	59.5	49.5	-35.2%	-16.8%		10.0
N2O	66.0	40.8	37.2	-43.7%	-8.8%						66.0	40.8	37.2	-43.7%	-8.8%		3.6
HFC	8.9	11.1	7.2	-18.6%	-34.8%						8.9	11.1	7.2	-18.6%	-34.8%		3.9
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%		0.4
SF6	1.0	1.3	0.7	-32.5%	-44.6%						1.0	1.3	0.7	-32.5%	-44.6%		0.6
Total	734.5	691.4	642.7	-12.5%	-7.0%						734.5	691.4	642.7	-12.5%	-7.0%		48.7

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors

marginal cost: 11.53 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)	23.1	22.7	21.6	-6.5%	-4.9%	7.9	5.8	5.5	-31.0%	-6.4%	31.1	28.6	27.1	-12.8%	-5.2%	1.1
CO2 (other)	3.2	3.3	3.3	4.0%	0.0%						3.2	3.3	3.3	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	26.4	26.1	25.0	-5.2%	-4.3%	7.9	5.8	5.5	-31.0%	-6.4%	34.3	31.9	30.5	-11.2%	-4.7%	1.1
Non-ferrous metals																
CO2 (fuel related)	1.6	2.0	1.9	22.4%	-2.6%	5.9	2.1	1.8	-68.6%	-10.6%	7.4	4.0	3.8	-49.4%	-6.7%	0.1
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	0.1	0.1	0.0	-28.0%	-28.0%						0.1	0.1	0.0	-28.0%	-28.0%	0.0
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%	0.4
Sub-total	1.8	2.4	2.0	9.9%	-18.7%	5.9	2.1	1.8	-68.6%	-10.6%	7.7	4.5	3.8	-50.3%	-15.0%	0.5
Chemicals																
CO2 (fuel related)	8.2	4.5	4.0	-51.2%	-11.6%	18.6	19.5	18.0	-3.3%	-7.5%	26.8	24.0	22.0	-17.9%	-8.3%	0.5
CO2 (other)	1.4	1.7	1.7	25.0%	0.0%						1.4	1.7	1.7	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%	2.7
HFC	6.1	1.6	0.1	-98.7%	-95.0%						6.1	1.6	0.1	-98.7%	-95.0%	1.6
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	45.0	14.2	9.4	-79.1%	-33.4%	18.6	19.5	18.0	-3.3%	-7.5%	63.7	33.6	27.4	-56.9%	-18.4%	4.7
Building Materials																
CO2 (fuel related)	8.8	6.8	6.7	-23.8%	-2.0%	6.6	3.7	3.3	-49.3%	-9.2%	15.3	10.5	10.0	-34.7%	-4.5%	0.1
CO2 (other)	9.4	10.6	10.5	11.8%	-1.1%						9.4	10.6	10.5	11.8%	-1.1%	0.1
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	18.1	17.4	17.1	-5.4%	-1.4%	6.6	3.7	3.3	-49.3%	-9.2%	24.7	21.1	20.5	-17.1%	-2.8%	0.2
Paper and Pulp																
CO2 (fuel related)	4.1	3.4	3.0	-28.0%	-12.5%	7.0	11.7	10.9	56.5%	-6.9%	11.1	15.1	13.9	25.1%	-8.1%	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	0.0	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	4.1	3.4	3.0	-28.0%	-12.5%	7.0	11.7	10.9	56.5%	-6.9%	11.1	15.1	13.9	25.1%	-8.1%	0.4
Food, drink and tobacco																
CO2 (fuel related)	7.4	4.7	4.2	-42.4%	-8.9%	10.9	14.0	13.1	19.9%	-6.3%	18.3	18.7	17.4	-5.2%	-7.0%	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	0.5	0.0	-	-100.0%						0.0	0.5	0.0	-	-100.0%	0.5
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	7.4	5.2	4.2	-42.4%	-18.0%	10.9	14.0	13.1	19.9%	-6.3%	18.3	19.2	17.4	-5.2%	-9.5%	0.9
Other industries																
CO2 (fuel related)	25.1	20.5	20.1	-20.1%	-2.0%	35.7	28.1	25.8	-27.8%	-8.2%	60.8	48.6	45.8	-24.6%	-5.6%	0.4
CO2 (other)	0.0	0.0	0.0	0.0%	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	2.6	4.1	3.5	35.8%	-13.6%						2.6	4.1	3.5	35.8%	-13.6%	0.6
PFC	0.6	5.2	4.9	659.8%	-6.6%						0.6	5.2	4.9	659.8%	-6.6%	0.3
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	28.4	29.8	28.5	0.4%	-4.4%	35.7	28.1	25.8	-27.8%	-8.2%	64.0	57.8	54.2	-15.3%	-6.2%	1.3
Total industry																
CO2 (fuel related)	78.2	64.6	61.5	-21.4%	-4.8%	92.6	84.9	78.5	-15.3%	-7.5%	170.8	149.4	140.0	-18.1%	-6.3%	3.1
CO2 (other)	13.9	15.6	15.5	11.3%	-0.7%						13.9	15.6	15.5	11.3%	-0.7%	0.1
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%	2.7
HFC	8.7	6.2	3.6	-58.5%	-42.2%						8.7	6.2	3.6	-58.5%	-42.2%	2.6
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%	0.4
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%	0.4
Total industry	131.2	98.4	89.2	-32.0%	-9.4%	92.6	84.9	78.5	-15.3%	-7.5%	223.8	183.3	167.7	-25.1%	-8.5%	9.2

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 11.53 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	106.4	113.4	112.5	5.7%	-0.8%	4.6	7.8	7.0	50.6%	-10.5%	106.4	113.4	112.5	5.7%	-0.8%	0.9
train	1.9	0.1	0.1	-94.2%	-1.4%						6.5	7.9	7.1	8.3%	-10.4%	0.0
aviation	20.1	38.8	36.9	83.4%	-4.7%						20.1	38.8	36.9	83.4%	-4.7%	1.8
intl. navigation	3.9	4.3	4.3	9.9%	-0.1%						3.9	4.3	4.3	9.9%	-0.1%	0.0
by transport activity (base year: 1995)																
passenger	94.1	108.7	106.7	13.4%	-1.8%						94.1	108.7	106.7	13.4%	-1.8%	2.0
freight	42.5	47.8	47.1	10.7%	-1.6%						42.5	47.8	47.1	10.7%	-1.6%	0.7
Sub-total	132.4	156.6	153.8	16.2%	-1.8%	4.6	7.8	7.0	50.6%	-10.5%	137.0	164.3	160.8	17.4%	-2.2%	2.7

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 11.53 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	11.1	33.8	33.4	201.5%	-1.3%											0.4
other generators	0.0	5.8	3.5	-	-39.4%											2.3
utilities	205.3	144.9	128.7	-37.3%	-11.2%											16.2
boilers in	13.5	8.1	8.8	-34.4%	8.6%											-0.7
industry	0.0	0.0	0.0	-	-											0.0
refineries	13.5	6.3	7.2	-46.2%	14.8%											-0.9
district heating	0.0	1.8	1.6	-	-12.6%											0.2
fuel extraction and refining	14.8	19.9	19.5	31.6%	-2.2%											0.4
Sub-total	244.7	212.5	193.9	-20.8%	-8.8%											18.6

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 11.53 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)	265.4	223.6	203.6	-23.3%	-9.0%												20.1
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-		0.0
CH4	1.9	1.9	1.9	0.0%	0.0%						1.9	1.9	1.9	0.0%	0.0%		0.0
N2O	4.0	2.8	2.6	-36.2%	-7.5%						4.0	2.8	2.6	-36.2%	-7.5%		0.2
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	0.9	0.9	0.7	-20.0%	-20.0%						0.9	0.9	0.7	-20.0%	-20.0%		0.2
Sub-total	272.2	229.2	208.7	-23.3%	-8.9%						6.8	5.5	5.1	-24.1%	-6.9%		20.5
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	27.9	15.2	11.9	-57.2%	-21.4%						27.9	15.2	11.9	-57.2%	-21.4%		3.2
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	27.9	15.2	11.9	-57.2%	-21.4%						27.9	15.2	11.9	-57.2%	-21.4%		3.2
Industry																	
CO2 (fuel related)	57.5	53.5	51.8	-9.9%	-3.1%	132.8	97.1	88.7	-33.3%	-8.7%	190.4	150.6	140.5	-26.2%	-6.7%		1.6
CO2 (other)	13.9	15.6	15.5	11.3%	-0.7%						13.9	15.6	15.5	11.3%	-0.7%		0.1
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%		0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%		2.7
HFC	8.7	6.2	3.6	-58.5%	-42.2%						8.7	6.2	3.6	-58.5%	-42.2%		2.6
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%		0.4
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%		0.4
Sub-total	110.4	87.3	79.5	-28.0%	-8.9%	132.8	97.1	88.7	-33.3%	-8.7%	243.3	184.4	168.2	-30.9%	-8.8%		7.8
Transport																	
CO2 (fuel related)	132.4	156.6	153.8	16.2%	-1.8%	4.0	7.7	6.9	72.0%	-10.1%	136.4	164.3	160.7	17.9%	-2.1%		2.7
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-		0.0
CH4	0.6	0.3	0.3	-55.0%	0.0%						0.6	0.3	0.3	-55.0%	0.0%		0.0
N2O	1.2	3.1	3.1	149.0%	0.0%						1.2	3.1	3.1	149.0%	0.0%		0.0
HFC	0.2	3.8	2.8	1242.3%	-28.2%						0.2	3.8	2.8	1242.3%	-28.2%		1.1
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	134.4	163.8	159.9	19.0%	-2.3%	4.0	7.7	6.9	72.0%	-10.1%	138.5	171.5	166.9	20.5%	-2.7%		3.8
Households																	
CO2 (fuel related)	88.1	80.6	78.7	-10.6%	-2.3%	71.5	52.1	47.7	-33.3%	-8.4%	159.6	132.7	126.5	-20.8%	-4.7%		1.8
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	0.2	0.1	-	-62.7%						0.0	0.2	0.1	-	-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	88.1	80.8	78.8	-10.5%	-2.5%	71.5	52.1	47.7	-33.3%	-8.4%	159.6	132.9	126.5	-20.7%	-4.8%		2.0
Services																	
CO2 (fuel related)	23.2	42.3	38.4	65.8%	-9.2%	57.0	66.7	60.2	5.7%	-9.7%	80.2	109.0	98.7	23.1%	-9.5%		3.9
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	0.8	0.8	-	0.0%						0.0	0.8	0.8	-	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	23.2	43.1	39.2	69.1%	-9.0%	57.0	66.7	60.2	5.7%	-9.7%	80.2	109.8	99.4	24.0%	-9.5%		3.9
Agriculture																	
CO2 (fuel related)	0.4	0.7	0.7	72.8%	-4.4%	0.0	0.0	0.0	-	-	0.4	0.7	0.7	72.8%	-4.4%		0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-		0.0
CH4	21.8	20.4	19.3	-11.5%	-5.6%						21.8	20.4	19.3	-11.5%	-5.6%		1.2
N2O	31.0	28.2	27.5	-11.2%	-2.6%						31.0	28.2	27.5	-11.2%	-2.6%		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	53.2	49.4	47.5	-10.7%	-3.9%	0.0	0.0	0.0	-	-	53.2	49.4	47.5	-10.7%	-3.9%		1.9
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)	0.7	0.7	0.7	0.0%	0.0%						0.7	0.7	0.7	0.0%	0.0%		0.0
CH4	24.2	21.7	16.1	-33.4%	-25.8%						24.2	21.7	16.1	-33.4%	-25.8%		5.6
N2O	0.3	0.3	0.3	0.0%	0.0%						0.3	0.3	0.3	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	25.1	22.6	17.0	-32.1%	-24.7%	0.0	0.0	0.0	-	-	25.1	22.6	17.0	-32.1%	-24.7%		5.6
All sectors																	
CO2 (fuel related)	566.9	557.3	527.1	-7.0%	-5.4%						566.9	557.3	527.1	-7.0%	-5.4%		30.2
CO2 (other)	14.6	16.3	16.2	10.8%	-0.7%						14.6	16.3	16.2	10.8%	-0.7%		0.1
CH4	76.4	59.5	49.5	-35.2%	-16.8%						76.4	59.5	49.5	-35.2%	-16.8%		10.0
N2O	66.0	40.8	37.2	-43.7%	-8.8%						66.0	40.8	37.2	-43.7%	-8.8%		3.6
HFC	8.9	11.1	7.2	-18.6%	-34.8%						8.9	11.1	7.2	-18.6%	-34.8%		3.9
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%		0.4
SF6	1.0	1.3	0.7	-32.5%	-44.6%						1.0	1.3	0.7	-32.5%	-44.6%		0.6
Total	734.5	691.4	642.7	-12.5%	-7.0%						734.5	691.4	642.7	-12.5%	-7.0%		48.7

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries

marginal cost: 11.53 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)	23.0	22.3	21.1	-8.3%	-5.3%	7.1	5.8	5.5	-23.0%	-6.0%	30.2	28.2	26.6	-11.8%	-5.5%	1.2
CO2 (other)	3.2	3.3	3.3	4.0%	0.0%						3.2	3.3	3.3	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	26.3	25.7	24.5	-6.8%	-4.6%	7.1	5.8	5.5	-23.0%	-6.0%	33.4	31.5	30.0	-10.2%	-4.9%	1.2
Non-ferrous metals																
CO2 (fuel related)	1.6	2.0	1.9	22.9%	-2.6%	5.1	2.0	1.8	-64.1%	-10.2%	6.7	4.0	3.8	-43.7%	-6.4%	0.1
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	0.1	0.1	0.0	-28.0%	-28.0%						0.1	0.1	0.0	-28.0%	-28.0%	0.0
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%	0.4
Sub-total	1.8	2.4	2.0	10.3%	-18.7%	5.1	2.0	1.8	-64.1%	-10.2%	6.9	4.5	3.8	-44.9%	-14.8%	0.5
Chemicals																
CO2 (fuel related)	1.3	0.8	0.7	-45.1%	-7.1%	32.6	23.7	21.5	-33.9%	-9.2%	33.9	24.5	22.2	-34.4%	-9.2%	0.1
CO2 (other)	1.4	1.7	1.7	25.0%	0.0%						1.4	1.7	1.7	25.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%	2.7
HFC	6.1	1.6	0.1	-98.7%	-95.0%						6.1	1.6	0.1	-98.7%	-95.0%	1.6
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	38.2	10.4	6.2	-83.8%	-40.9%	32.6	23.7	21.5	-33.9%	-9.2%	70.8	34.2	27.7	-60.9%	-18.9%	4.3
Building Materials																
CO2 (fuel related)	8.8	6.8	6.7	-23.8%	-2.0%	5.7	3.6	3.3	-42.1%	-8.8%	14.5	10.4	10.0	-31.0%	-4.3%	0.1
CO2 (other)	9.4	10.6	10.5	11.8%	-1.1%						9.4	10.6	10.5	11.8%	-1.1%	0.1
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	18.1	17.4	17.1	-5.4%	-1.4%	5.7	3.6	3.3	-42.1%	-8.8%	23.9	21.0	20.5	-14.2%	-2.7%	0.2
Paper and Pulp																
CO2 (fuel related)	0.7	1.4	1.3	91.6%	-1.2%	14.9	14.3	13.0	-12.8%	-8.8%	15.6	15.7	14.4	-8.1%	-8.1%	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	0.7	1.4	1.3	91.6%	-1.2%	14.9	14.3	13.0	-12.8%	-8.8%	15.6	15.7	14.4	-8.1%	-8.1%	0.0
Food, drink and tobacco																
CO2 (fuel related)	1.4	1.5	1.5	7.2%	-1.0%	25.3	17.6	16.1	-36.5%	-8.6%	26.7	19.1	17.6	-34.2%	-8.0%	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	0.5	0.0	-	-100.0%						0.0	0.5	0.0	-	-100.0%	0.5
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	1.4	2.0	1.5	7.2%	-26.5%	25.3	17.6	16.1	-36.5%	-8.6%	26.7	19.6	17.6	-34.2%	-10.5%	0.5
Other industries																
CO2 (fuel related)	20.7	18.7	18.5	-10.6%	-0.9%	42.0	30.0	27.4	-34.8%	-8.6%	62.8	48.7	45.9	-26.8%	-5.7%	0.2
CO2 (other)	0.0	0.0	0.0	0.0%	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	2.6	4.1	3.5	35.8%	-13.6%						2.6	4.1	3.5	35.8%	-13.6%	0.6
PFC	0.6	5.2	4.9	659.8%	-6.6%						0.6	5.2	4.9	659.8%	-6.6%	0.3
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	24.0	28.0	26.9	12.4%	-3.8%	42.0	30.0	27.4	-34.8%	-8.6%	66.0	58.0	54.3	-17.7%	-6.3%	1.1
Total industry																
CO2 (fuel related)	57.5	53.5	51.8	-9.9%	-3.1%	132.8	97.1	88.7	-33.3%	-8.7%	190.4	150.6	140.5	-26.2%	-6.7%	1.6
CO2 (other)	13.9	15.6	15.5	11.3%	-0.7%						13.9	15.6	15.5	11.3%	-0.7%	0.1
CH4	0.0	0.0	0.0	0.0%	0.0%						0.0	0.0	0.0	0.0%	0.0%	0.0
N2O	29.5	6.3	3.7	-87.5%	-42.0%						29.5	6.3	3.7	-87.5%	-42.0%	2.7
HFC	8.7	6.2	3.6	-58.5%	-42.2%						8.7	6.2	3.6	-58.5%	-42.2%	2.6
PFC	0.7	5.3	4.9	608.2%	-6.8%						0.7	5.3	4.9	608.2%	-6.8%	0.4
SF6	0.2	0.4	0.0	-100.0%	-100.0%						0.2	0.4	0.0	-100.0%	-100.0%	0.4
Total industry	110.4	87.3	79.5	-28.0%	-8.9%	132.8	97.1	88.7	-33.3%	-8.7%	243.3	184.4	168.2	-30.9%	-8.8%	7.8

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 11.53 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	106.4	113.4	112.5	5.7%	-0.8%	4.0	7.7	6.9	72.0%	-10.1%	106.4	113.4	112.5	5.7%	-0.8%	0.9
train	1.9	0.1	0.1	-94.2%	-1.4%						5.9	7.8	7.0	18.6%	-10.0%	0.0
aviation	20.1	38.8	36.9	83.4%	-4.7%						20.1	38.8	36.9	83.4%	-4.7%	1.8
intl. navigation	3.9	4.3	4.3	9.9%	-0.1%						3.9	4.3	4.3	9.9%	-0.1%	0.0
by transport activity (base year: 1995)																
passenger	94.1	108.7	106.7	13.4%	-1.8%						94.1	108.7	106.7	13.4%	-1.8%	2.0
freight	42.5	47.8	47.1	10.7%	-1.6%						42.5	47.8	47.1	10.7%	-1.6%	0.7
Sub-total	132.4	156.6	153.8	16.2%	-1.8%	4.0	7.7	6.9	72.0%	-10.1%	136.4	164.3	160.7	17.9%	-2.1%	2.7

UNITED KINGDOM (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 11.53 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	11.1	33.8	33.4	201.5%	-1.3%											0.4
other generators	0.0	5.8	3.5	-	-39.4%											2.3
utilities	205.3	144.9	128.7	-37.3%	-11.2%											16.2
boilers in	34.2	19.2	18.5	-45.9%	-3.8%											0.7
industry	20.7	11.1	9.7	-53.3%	-12.9%											1.4
refineries	13.5	6.3	7.2	-46.2%	14.8%											-0.9
district heating	0.0	1.8	1.6	-	-12.6%											0.2
fuel extraction and refining	14.8	19.9	19.5	31.6%	-2.2%											0.4
Sub-total	265.4	223.6	203.6	-23.3%	-9.0%											20.1