

Ireland

	Scenario	In/excl. ACEA agreement in the baseline	Allocation of industrial boilers
IRwACEA1	Member State based objectives	including ACEA agreement in the baseline	industrial boilers allocated to industrial sectors
IRwACEA2	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

IRELAND (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to industrial sectors

marginal cost: 32.08 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)	10.9	16.4	13.1	20.3%	-20.2%												3.3
CO2 (other)	0.0	0.0	0	-	-						0.0	0.0	0	-	-	-	0.0
CH4	0.1	0.1	0.1	0.0%	0.0%						0.1	0.1	0.1	0.0%	0.0%	0.0%	0.0
N2O	0.9	0.5	0.4	-53.6%	-7.2%						0.9	0.5	0.4	-53.6%	-7.2%	-7.2%	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	-20.0%	-20.0%						0.0	0.0	0.0	-20.0%	-20.0%	-20.0%	0.0
Sub-total	11.9	17.0	13.6	14.4%	-19.8%						1.0	0.6	0.5	-48.8%	-6.4%	-6.4%	3.4
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	0.2	0.2	0.2	14.8%	0.0%						0.2	0.2	0.2	14.8%	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	0.2	0.2	0.2	14.8%	0.0%						0.2	0.2	0.2	14.8%	0.0%	0.0%	0.0
Industry																	
CO2 (fuel related)	4.7	5.0	4.3	-7.7%	-13.0%	4.1	6.8	5.7	39.6%	-15.5%	8.8	11.8	10.1	14.4%	-14.5%	-14.5%	0.7
CO2 (other)	1.6	1.6	1.6	-0.5%	-0.5%						1.6	1.6	1.6	-0.5%	-0.5%	-0.5%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%						0.9	0.9	0.9	0.0%	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-34.3%						0.2	0.3	0.2	13.8%	-34.3%	-34.3%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	-	0.0
Sub-total	7.4	8.0	7.2	-3.2%	-9.6%	4.1	6.8	5.7	39.6%	-15.5%	11.5	14.8	12.9	12.0%	-12.3%	-12.3%	0.8
Transport																	
CO2 (fuel related)	5.8	9.5	9.0	55.5%	-5.2%	0.0	0.1	0.1	448.0%	-27.8%	5.8	9.7	9.1	56.5%	-5.5%	-5.5%	0.5
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	-	0.0
CH4	0.0	0.0	0.0	-48.0%	0.0%						0.0	0.0	0.0	-48.0%	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	0.2	1332.6%	-29.4%						0.0	0.2	0.2	1332.6%	-29.4%	-29.4%	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	5.8	9.8	9.2	57.6%	-5.8%	0.0	0.1	0.1	448.0%	-27.8%	5.9	9.9	9.3	58.5%	-6.0%	-6.0%	0.6
Households																	
CO2 (fuel related)	6.5	5.1	4.6	-30.0%	-10.7%	4.2	5.6	4.4	4.9%	-21.5%	10.7	10.7	9.0	-16.4%	-16.3%	-16.3%	0.6
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	-	-62.7%						0.0	0.0	0.0	-	-62.7%	-62.7%	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	6.5	5.1	4.6	-30.0%	-10.9%	4.2	5.6	4.4	4.9%	-21.5%	10.7	10.7	9.0	-16.4%	-16.4%	-16.4%	0.6
Services																	
CO2 (fuel related)	1.9	5.4	4.8	150.4%	-10.3%	2.6	3.9	2.9	12.2%	-26.4%	4.5	9.3	7.7	71.6%	-17.1%	-17.1%	0.6
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	-	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	1.9	5.4	4.9	152.5%	-10.3%	2.6	3.9	2.9	12.2%	-26.4%	4.5	9.3	7.7	72.5%	-17.0%	-17.0%	0.6
Agriculture																	
CO2 (fuel related)	0.2	0.4	0.4	101.5%	-6.6%	0.0	0.0	0.0	-	-	0.2	0.4	0.4	101.5%	-6.6%	-6.6%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	-	0.0
CH4	13.4	16.2	15.3	14.2%	-5.0%						13.4	16.2	15.3	14.2%	-5.0%	-5.0%	0.8
N2O	7.1	7.9	7.6	6.2%	-4.3%						7.1	7.9	7.6	6.2%	-4.3%	-4.3%	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	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	-	0.0
Sub-total	20.8	24.5	23.3	12.3%	-4.8%	0.0	0.0	0.0	-	-	20.8	24.5	23.3	12.3%	-4.8%	-4.8%	1.2
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)	0.1	0.1	0.1	0.0%	0.0%						0.1	0.1	0.1	0.0%	0.0%	0.0%	0.0
CH4	2.9	3.0	2.0	-30.9%	-33.3%						2.9	3.0	2.0	-30.9%	-33.3%	-33.3%	1.0
N2O	0.3	0.3	0.3	0.0%	0.0%						0.3	0.3	0.3	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	3.2	3.3	2.3	-27.4%	-29.7%	0.0	0.0	0.0	-	-	3.2	3.3	2.3	-27.4%	-29.7%	-29.7%	1.0
All sectors																	
CO2 (fuel related)	30.1	41.9	36.3	20.7%	-13.4%						30.1	41.9	36.3	20.7%	-13.4%	-13.4%	5.6
CO2 (other)	1.7	1.7	1.7	-0.5%	-0.5%						1.7	1.7	1.7	-0.5%	-0.5%	-0.5%	0.0
CH4	16.6	19.5	17.7	6.3%	-9.2%						16.6	19.5	17.7	6.3%	-9.2%	-9.2%	1.8
N2O	9.3	9.6	9.2	-0.6%	-3.9%						9.3	9.6	9.2	-0.6%	-3.9%	-3.9%	0.4
HFC	0.2	0.6	0.4	125.4%	-30.4%						0.2	0.6	0.4	125.4%	-30.4%	-30.4%	0.2
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	-6.6%	0.0
SF6	0.0	0.0	0.0	-20.0%	-20.0%						0.0	0.0	0.0	-20.0%	-20.0%	-20.0%	0.0
Total	57.8	73.3	65.4	13.0%	-10.9%						57.8	73.3	65.4	13.0%	-10.9%	-10.9%	8.0

IRELAND (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to industrial sectors

marginal cost: 32.08 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)	0.2	0.1	0.1	-61.6%	-6.4%	0.6	0.4	0.3	-42.6%	-20.8%	0.8	0.5	0.4	-47.0%	-18.7%	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	0.0	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	0.2	0.1	0.1	-61.6%	-6.4%	0.6	0.4	0.3	-42.6%	-20.8%	0.8	0.5	0.4	-47.0%	-18.7%	0.0
Non-ferrous metals																
CO2 (fuel related)	0.8	1.4	1.4	80.0%	-2.6%	0.0	0.0	0.0	-	-19.2%	0.8	1.4	1.4	80.0%	-2.6%	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	0.8	1.4	1.4	80.0%	-2.6%	0.0	0.0	0.0	-	-19.2%	0.8	1.4	1.4	80.0%	-2.6%	0.0
Chemicals																
CO2 (fuel related)	0.6	0.7	0.6	8.0%	-18.2%	0.5	1.5	1.3	139.7%	-15.0%	1.1	2.2	1.9	71.8%	-16.1%	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	0.0	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	0.7	0.6	8.0%	-18.2%	0.5	1.5	1.3	139.7%	-15.0%	1.1	2.2	1.9	71.8%	-16.1%	0.1
Building Materials																
CO2 (fuel related)	0.9	0.3	0.3	-69.9%	-3.0%	0.3	0.3	0.2	-28.7%	-20.9%	1.2	0.6	0.5	-58.4%	-12.5%	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	0.9	0.3	0.3	-70.8%	-6.0%	0.3	0.3	0.2	-28.7%	-20.9%	1.2	0.6	0.5	-59.1%	-13.9%	0.0
Paper and Pulp																
CO2 (fuel related)	0.1	0.1	0.0	-50.3%	-39.4%	0.1	0.3	0.3	200.2%	-3.4%	0.2	0.4	0.3	105.6%	-8.4%	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	0.1	0.1	0.0	-50.3%	-39.4%	0.1	0.3	0.3	200.2%	-3.4%	0.2	0.4	0.3	105.6%	-8.4%	0.0
Food, drink and tobacco																
CO2 (fuel related)	0.9	0.9	0.6	-37.6%	-34.3%	1.2	1.9	1.7	44.5%	-10.5%	2.1	2.8	2.3	7.5%	-18.3%	0.3
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	-	-100.0%						0.0	0.0	0.0	-	-100.0%	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	0.9	0.9	0.6	-37.6%	-36.2%	1.2	1.9	1.7	44.5%	-10.5%	2.1	2.8	2.3	7.5%	-19.0%	0.3
Other industries																
CO2 (fuel related)	1.3	1.6	1.4	8.2%	-8.9%	1.4	2.4	1.9	38.3%	-19.8%	2.7	3.9	3.3	23.6%	-15.5%	0.1
CO2 (other)	1.6	1.6	1.6	0.0%	0.0%						1.6	1.6	1.6	0.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%						0.9	0.9	0.9	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-27.4%						0.2	0.3	0.2	13.8%	-27.4%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	4.0	4.5	4.3	5.8%	-4.8%	1.4	2.4	1.9	38.3%	-19.8%	5.4	6.9	6.2	14.1%	-10.0%	0.2
Total industry																
CO2 (fuel related)	4.7	5.0	4.3	-7.7%	-13.0%	4.1	6.8	5.7	39.6%	-15.5%	8.8	11.8	10.1	14.4%	-14.5%	0.7
CO2 (other)	1.6	1.6	1.6	-0.5%	-0.5%						1.6	1.6	1.6	-0.5%	-0.5%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%						0.9	0.9	0.9	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-34.3%						0.2	0.3	0.2	13.8%	-34.3%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Total industry	7.4	8.0	7.2	-3.2%	-9.6%	4.1	6.8	5.7	39.6%	-15.5%	11.5	14.8	12.9	12.0%	-12.3%	0.8

IRELAND (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 32.08 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	4.6	7.2	7.0	51.9%	-3.5%	0.0	0.1	0.1	448.0%	-27.8%	4.6	7.2	7.0	51.9%	-3.5%	0.3
train	0.1	0.2	0.2	3.8%	-3.2%						0.2	0.3	0.2	44.4%	-13.4%	0.0
aviation	1.1	2.0	1.7	64.4%	-11.9%						1.1	2.0	1.7	64.4%	-11.9%	0.2
intl. navigation	0.0	0.2	0.2	740.6%	-2.5%						0.0	0.2	0.2	740.6%	-2.5%	0.0
by transport activity (base year: 1995)																
passenger	5.1	6.3	6.0	18.7%	-4.9%						5.1	6.3	6.0	18.7%	-4.9%	0.3
freight	1.8	3.2	3.0	72.8%	-5.9%						1.8	3.2	3.0	72.8%	-5.9%	0.2
Sub-total	5.8	9.5	9.0	55.5%	-5.2%	0.0	0.1	0.1	448.0%	-27.8%	5.8	9.7	9.1	56.5%	-5.5%	0.5

IRELAND (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to industrial sectors
marginal cost: 32.08 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	0.2	1.2	0.3	72.2%	-71.3%											0.9
other generators	0.0	0.0	0.0	-	-90.5%											0.0
utilities	10.0	15.1	12.4	25.0%	-17.4%											2.6
boilers in	0.6	0.1	0.3	-58.8%	217.3%											-0.2
industry	0.0	0.0	0.0	-	-											0.0
refineries	0.6	0.1	0.2	-61.1%	207.4%											-0.2
district heating	0.0	0.0	0.0	-	598.9%											0.0
fuel extraction and refining	0.1	0.0	0.0	-73.4%	-39.1%											0.0
Sub-total	10.9	16.4	13.1	20.3%	-20.2%											3.3

IRELAND (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to energy industries

marginal cost: 32.08 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)	11.6	17.4	13.6	17.8%	-22.0%											3.8
CO2 (other)	0.0	0.0	0	-	-						0.0	0.0	0	-	-	0.0
CH4	0.1	0.1	0.1	0.0%	0.0%						0.1	0.1	0.1	0.0%	0.0%	0.0
N2O	0.9	0.5	0.4	-53.6%	-7.2%						0.9	0.5	0.4	-53.6%	-7.2%	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	-20.0%	-20.0%						0.0	0.0	0.0	-20.0%	-20.0%	0.0
Sub-total	12.6	18.0	14.1	12.4%	-21.5%						1.0	0.6	0.5	-48.8%	-6.4%	3.9
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	0.2	0.2	0.2	14.8%	0.0%						0.2	0.2	0.2	14.8%	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	0.2	0.2	0.2	14.8%	0.0%						0.2	0.2	0.2	14.8%	0.0%	0.0
Industry																
CO2 (fuel related)	4.0	3.9	3.8	-5.2%	-3.3%	6.4	8.6	6.8	5.5%	-20.9%	10.4	12.5	10.6	1.3%	-15.4%	0.1
CO2 (other)	1.6	1.6	1.6	-0.5%	-0.5%						1.6	1.6	1.6	-0.5%	-0.5%	0.0
CH4	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%						0.9	0.9	0.9	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-34.3%						0.2	0.3	0.2	13.8%	-34.3%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	6.8	6.9	6.7	-1.3%	-3.5%	6.4	8.6	6.8	5.5%	-20.9%	13.2	15.5	13.4	2.0%	-13.1%	0.2
Transport																
CO2 (fuel related)	5.8	9.5	9.0	55.5%	-5.2%	0.0	0.1	0.1	572.7%	-27.4%	5.8	9.6	9.1	56.5%	-5.4%	0.5
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	0.0	0.0	0.0	-48.0%	0.0%						0.0	0.0	0.0	-48.0%	0.0%	0.0
N2O	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
HFC	0.0	0.2	0.2	1332.6%	-29.4%						0.0	0.2	0.2	1332.6%	-29.4%	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	5.8	9.8	9.2	57.6%	-5.8%	0.0	0.1	0.1	572.7%	-27.4%	5.9	9.9	9.3	58.5%	-6.0%	0.6
Households																
CO2 (fuel related)	6.5	5.1	4.6	-30.0%	-10.7%	3.2	5.2	4.1	28.7%	-21.0%	9.7	10.3	8.7	-10.8%	-15.9%	0.6
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	-	-62.7%						0.0	0.0	0.0	-	-62.7%	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	6.5	5.1	4.6	-30.0%	-10.9%	3.2	5.2	4.1	28.7%	-21.0%	9.7	10.3	8.7	-10.8%	-15.9%	0.6
Services																
CO2 (fuel related)	1.9	5.4	4.8	150.4%	-10.3%	1.9	3.6	2.7	37.7%	-26.0%	3.9	9.0	7.5	93.9%	-16.6%	0.6
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	-	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	1.9	5.4	4.9	152.5%	-10.3%	1.9	3.6	2.7	37.7%	-26.0%	3.9	9.0	7.5	94.9%	-16.5%	0.6
Agriculture																
CO2 (fuel related)	0.2	0.4	0.4	101.5%	-6.6%	0.0	0.0	0.0	-	-	0.2	0.4	0.4	101.5%	-6.6%	0.0
CO2 (other)	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
CH4	13.4	16.2	15.3	14.2%	-5.0%						13.4	16.2	15.3	14.2%	-5.0%	0.8
N2O	7.1	7.9	7.6	6.2%	-4.3%						7.1	7.9	7.6	6.2%	-4.3%	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	0.0	0.0	0.0	-	-						0.0	0.0	0.0	-	-	0.0
Sub-total	20.8	24.5	23.3	12.3%	-4.8%	0.0	0.0	0.0	-	-	20.8	24.5	23.3	12.3%	-4.8%	1.2
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)	0.1	0.1	0.1	0.0%	0.0%						0.1	0.1	0.1	0.0%	0.0%	0.0
CH4	2.9	3.0	2.0	-30.9%	-33.3%						2.9	3.0	2.0	-30.9%	-33.3%	1.0
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	3.2	3.3	2.3	-27.4%	-29.7%	0.0	0.0	0.0	-	-	3.2	3.3	2.3	-27.4%	-29.7%	1.0
All sectors																
CO2 (fuel related)	30.1	41.9	36.3	20.7%	-13.4%						30.1	41.9	36.3	20.7%	-13.4%	5.6
CO2 (other)	1.7	1.7	1.7	-0.5%	-0.5%						1.7	1.7	1.7	-0.5%	-0.5%	0.0
CH4	16.6	19.5	17.7	6.3%	-9.2%						16.6	19.5	17.7	6.3%	-9.2%	1.8
N2O	9.3	9.6	9.2	-0.6%	-3.9%						9.3	9.6	9.2	-0.6%	-3.9%	0.4
HFC	0.2	0.6	0.4	125.4%	-30.4%						0.2	0.6	0.4	125.4%	-30.4%	0.2
PFC	0.0	0.1	0.1	659.8%	-6.6%						0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-20.0%	-20.0%						0.0	0.0	0.0	-20.0%	-20.0%	0.0
Total	57.8	73.3	65.4	13.0%	-10.9%						57.8	73.3	65.4	13.0%	-10.9%	8.0

IRELAND (Burden Sharing scenario including ACEA agreement)

industrial boilers allocated to energy industries

marginal cost: 32.08 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)	0.1	0.1	0.1	-49.9%	-6.2%	0.5	0.4	0.3	-30.0%	-20.4%	0.6	0.5	0.4	-34.6%	-18.2%	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	0.1	0.1	0.1	-49.9%	-6.2%	0.5	0.4	0.3	-30.0%	-20.4%	0.6	0.5	0.4	-34.6%	-18.2%	0.0
Non-ferrous metals																
CO2 (fuel related)	0.8	1.4	1.4	80.0%	-2.6%	0.0	0.0	0.0	-	-18.7%	0.8	1.4	1.4	80.0%	-2.6%	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	0.8	1.4	1.4	80.0%	-2.6%	0.0	0.0	0.0	-	-18.7%	0.8	1.4	1.4	80.0%	-2.6%	0.0
Chemicals																
CO2 (fuel related)	0.3	0.5	0.5	91.2%	-0.9%	1.2	2.0	1.6	31.9%	-21.8%	1.5	2.5	2.1	42.9%	-17.5%	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	0.3	0.5	0.5	91.2%	-0.9%	1.2	2.0	1.6	31.9%	-21.8%	1.5	2.5	2.1	42.9%	-17.5%	0.0
Building Materials																
CO2 (fuel related)	0.3	0.3	0.3	-15.6%	-3.0%	0.3	0.3	0.2	-12.4%	-20.4%	0.6	0.6	0.5	-14.2%	-11.9%	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	0.3	0.3	0.3	-18.2%	-6.0%	0.3	0.3	0.2	-12.4%	-20.4%	0.6	0.6	0.5	-15.6%	-13.4%	0.0
Paper and Pulp																
CO2 (fuel related)	0.0	0.0	0.0	85.0%	-3.9%	0.6	0.6	0.5	-17.7%	-20.2%	0.6	0.6	0.5	-15.3%	-19.5%	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	0.0	0.0	0.0	85.0%	-3.9%	0.6	0.6	0.5	-17.7%	-20.2%	0.6	0.6	0.5	-15.3%	-19.5%	0.0
Food, drink and tobacco																
CO2 (fuel related)	0.2	0.3	0.3	75.4%	-4.9%	2.3	2.8	2.2	-2.1%	-20.2%	2.4	3.1	2.5	2.7%	-18.8%	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	-	-100.0%	-	-	-	-	-	0.0	0.0	0.0	-	-100.0%	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	0.2	0.3	0.3	75.4%	-13.2%	2.3	2.8	2.2	-2.1%	-20.2%	2.4	3.1	2.5	2.7%	-19.5%	0.0
Other industries																
CO2 (fuel related)	2.4	1.4	1.3	-45.0%	-4.6%	1.6	2.5	1.9	17.8%	-21.2%	4.0	3.8	3.2	-19.3%	-15.3%	0.1
CO2 (other)	1.6	1.6	1.6	0.0%	0.0%	-	-	-	-	-	1.6	1.6	1.6	0.0%	0.0%	0.0
CH4	0.0	0.0	0.0	-	-	-	-	-	-	-	0.0	0.0	0.0	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%	-	-	-	-	-	0.9	0.9	0.9	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-27.4%	-	-	-	-	-	0.2	0.3	0.2	13.8%	-27.4%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%	-	-	-	-	-	0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-	-	-	-	-	-	0.0	0.0	0.0	-	-	0.0
Sub-total	5.1	4.3	4.2	-18.4%	-3.2%	1.6	2.5	1.9	17.8%	-21.2%	6.8	6.8	6.1	-9.6%	-9.8%	0.1
Total industry																
CO2 (fuel related)	4.0	3.9	3.8	-5.2%	-3.3%	6.4	8.6	6.8	5.5%	-20.9%	10.4	12.5	10.6	1.3%	-15.4%	0.1
CO2 (other)	1.6	1.6	1.6	-0.5%	-0.5%	-	-	-	-	-	1.6	1.6	1.6	-0.5%	-0.5%	0.0
CH4	0.0	0.0	0.0	-	-	-	-	-	-	-	0.0	0.0	0.0	-	-	0.0
N2O	0.9	0.9	0.9	0.0%	0.0%	-	-	-	-	-	0.9	0.9	0.9	0.0%	0.0%	0.0
HFC	0.2	0.3	0.2	13.8%	-34.3%	-	-	-	-	-	0.2	0.3	0.2	13.8%	-34.3%	0.1
PFC	0.0	0.1	0.1	659.8%	-6.6%	-	-	-	-	-	0.0	0.1	0.1	659.8%	-6.6%	0.0
SF6	0.0	0.0	0.0	-	-	-	-	-	-	-	0.0	0.0	0.0	-	-	0.0
Total industry	6.8	6.9	6.7	-1.3%	-3.5%	6.4	8.6	6.8	5.5%	-20.9%	13.2	15.5	13.4	2.0%	-13.1%	0.2

IRELAND (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 32.08 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	4.6	7.2	7.0	51.9%	-3.5%	0.0	0.1	0.1	572.7%	-27.4%	4.6	7.2	7.0	51.9%	-3.5%	0.3
train	0.1	0.2	0.2	3.8%	-3.2%						0.2	0.3	0.2	44.1%	-12.8%	0.0
aviation	1.1	2.0	1.7	64.4%	-11.9%						1.1	2.0	1.7	64.4%	-11.9%	0.2
intl. navigation	0.0	0.2	0.2	740.6%	-2.5%						0.0	0.2	0.2	740.6%	-2.5%	0.0
by transport activity (base year: 1995)																
passenger	5.1	6.3	6.0	18.7%	-4.9%						5.1	6.3	6.0	18.7%	-4.9%	0.3
freight	1.8	3.2	3.0	72.8%	-5.9%						1.8	3.2	3.0	72.8%	-5.9%	0.2
Sub-total	5.8	9.5	9.0	55.5%	-5.2%	0.0	0.1	0.1	572.7%	-27.4%	5.8	9.6	9.1	56.5%	-5.4%	0.5

IRELAND (Burden Sharing scenario including ACEA agreement)
industrial boilers allocated to energy industries
marginal cost: 32.08 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	0.2	1.2	0.3	72.2%	-71.3%											0.9
other generators	0.0	0.0	0.0	-	-90.5%											0.0
utilities	10.0	15.1	12.4	25.0%	-17.4%											2.6
boilers in	1.3	1.1	0.8	-39.8%	-30.1%											0.3
industry	0.7	1.1	0.5	-22.1%	-49.5%											0.5
refineries	0.6	0.1	0.2	-61.1%	207.4%											-0.2
district heating	0.0	0.0	0.0	-	598.9%											0.0
fuel extraction and refining	0.1	0.0	0.0	-73.4%	-39.1%											0.0
Sub-total	11.6	17.4	13.6	17.8%	-22.0%											3.8