

ction parameters

Guidance

IV of the Implementing Provisions (Decision 2005/166/EC) of the MM Decision.  
where possible. Data sources the key parameter should be consistent with is noted in column AA.

Note:	R	s indicated under annex IV
	I	or parameter required
	M	s or elaboration on those required

Note			Projection parameters (required if used in projections)														Member State notes		
			Activity	Suggested units	Units reported	Historic values		Scenario 'with existing measures'						Historic/ projected values (please indicate whether historic or projected)		Scenario 'with additional measures'			
2000	2005	2010				2015	2019	2020	2025	2030	2010	2015	2020	2025	2030				
R	I	M	General economic parameters					Historic/ Projected					Historic/ Projected						
R	I	M	1a. Gross Domestic Product	Millions of euro, chain-linked volumes, reference year 2000 at 2000 exchange rates	Millions of euro	126 996	132 217	135 593	138 522	0,00	145 473	152 986	160 451	135 593	138 522	145 473	152 986	160 451	EUR 2000 constant prices.
R			1b. Gross domestic product growth rate	Annual growth rate (%)	%	3,90%	0,80%	0,90%	0,43%	0,00	0,98%	1,01%	0,96%	0,90%	0,43%	0,98%	1,01%	0,96%	
R			2a. Population	Number of people	Number of people	10 195 014	10 529 255	10 637 713	10 702 692	0,00	10 567 851	10 484 500	10 368 886	10 637 713	10 702 692	10 567 851	10 484 500	10 368 886	Extraldo Eurostat a 22/12/2012 (anos: 2000, 2005); restantes dados RNBC.
R			2b. Population growth rate and base year value	Annual growth rate (%)	%	0,00%	3,28%	-0,03%	0,61%	0,00	-1,26%	-0,79%	-1,10%	-0,03%	0,61%	-1,26%	-0,79%	-1,10%	
R			3. International coal import prices	€ (2010) / boe	USD/\$ (2010)	0,00	0,00	102,00	0,00	0,00	109,00	0,00	115,90	102,00	0,00	109,00	0,00	115,90	
R			4. International oil import prices	€ (2010) / boe	USD/\$ (2010)	0,00	0,00	96,20	0,00	0,00	118,10	0,00	134,50	96,20	0,00	118,10	0,00	134,50	
R			5. International gas import prices	€ (2010) / boe	USD/\$ (2010)	0,00	0,00	7,50	0,00	0,00	11,00	0,00	12,60	7,50	0,00	11,00	0,00	12,60	
			Carbon price (not required but recommended)	€ (2010 price) / t CO2	USD/\$ (2010)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
			Energy sector																
R			6. Total gross inland consumption			1 806,83	7 778,76	3 467,30	735,67	0,00	627,04	547,23	467,43	3 467,30	735,67	627,04	547,23	467,43	
R			6a. - Liquid Fuels (fossil)	Petajoule (PJ)	PJ	537,31	548,08	474,65	370,24	0,00	265,8	228,94	192,1	474,65	370,24	265,8	228,94	192,1	
R			6b. - Solid Fuels (fossil)	Petajoule (PJ)	PJ	149,96	140,88	69,4	57,89	0,00	46,4	24,39	2,4	69,4	57,89	46,4	24,39	2,4	
R			6c. - Gaseous Fuels	Petajoule (PJ)	PJ	76,81	150,93	188,7	211,70	0,00	234,7	222,13	209,6	188,7	211,70	234,7	222,13	209,6	
R		M	6d. - Biomass	Petajoule (PJ)	PJ	109,39	114,86	111,6	95,83	0,00	80,1	71,77	63,5	111,6	95,83	80,1	71,77	63,5	
R			6e. - Nuclear (IEA definition for energy calc.)	Petajoule (PJ)	PJ	0,0014	0,0014	0,0014	0,0014	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
		M	6f. Net electricity import (-+)	GWhe	GWhe	931	6 824	2 623	0,00	0,00	0,00	0,00	0,00	2 623,00	0,00	0,00	0,00	0,00	
R			6g. - Other fuels (Please Specify in Column Z)	Petajoule (PJ)	PJ	2,36	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please specify what is included
R	I		Total gross electricity generation by fuel type			41 224,25	44 126,58	52 460,00	0,00	0,00	60 940,00	0,00	51 990,00	52 460,00	0,00	60 940,00	0,00	51 990,00	
R			7. - Liquid Fuels (fossil)	GWhe	Gwhe	6 976,41	9 416,74	2 150,00	0,00	0,00	880,00	0,00	20,00	2 150,00	0,00	880,00	0,00	20,00	
R			8. - Solid Fuels (fossil)	GWhe	Gwhe	13 454,51	14 291,00	6 550,00	0,00	0,00	4 700,00	0,00	0,00	6 550,00	0,00	4 700,00	0,00	0,00	
R			9. – Gaseous Fuels	GWhe	Gwhe	7 479,34	11 747,84	15 400,00	0,00	0,00	22 720,00	0,00	13 870,00	15 400,00	0,00	22 720,00	0,00	13 870,00	
R			10. – Renewable	GWhe	Gwhe	13 314,00	8 671,00	28 360,00	0,00	0,00	32 640,00	0,00	38 100,00	28 360,00	0,00	32 640,00	0,00	38 100,00	
		M	11. Nuclear (IEA definition for energy calc.)	GWhe	Gwhe	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
		M	12. - Other (Please Specify in Column Z)	GWhe	Gwhe	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please specify what is included
R			Energy demand by sector			881,42	942,48	962,18	742,30	0,00	628,42	728,58	592,97	962,18	742,30	628,42	728,58	592,97	
R			13. Energy Industries			267,49	328,99	210,17	0,00	0,00	0,00	0,00	0,00	210,17	0,00	0,00	0,00	0,00	
R		M	13a. Liquid Fuels (fossil)	Petajoule (PJ)	PJ	86,86	98,27	37,14	0,00	0,00	0,00	0,00	0,00	37,14	0,00	0,00	0,00	0,00	
R		M	13b. Solid Fuels (fossil)	Petajoule (PJ)	PJ	132,40	134,83	63,72	0,00	0,00	0,00	0,00	0,00	63,72	0,00	0,00	0,00	0,00	
R		M	13c. Gaseous Fuels	Petajoule (PJ)	PJ	40,96	87,19	93,84	0,00	0,00	0,00	0,00	0,00	93,84	0,00	0,00	0,00	0,00	
R		M	13d. Renewables	Petajoule (PJ)	PJ	4,71	5,95	12,30	0,00	0,00	0,00	0,00	0,00	12,30	0,00	0,00	0,00	0,00	
R			13e. Nuclear (IEA definition for energy calc.)	Petajoule (PJ)	PJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
		M	13e. - Other Please Specify in Column Z	Petajoule (PJ)	PJ	2,56	2,75	3,18		0,00				3,18					Please specify what is included
R			14. Industry			220,82	213,24	322,19	322,28	0,00	226,00	341,13	227,30	322,19	322,28	226,00	341,13	227,30	
R		M	14a. Liquid Fuels (fossil)	Petajoule (PJ)	PJ	104,96	97,11	66,70	79,07	0,00	93,80	96,52	106,70	66,70	79,07	93,80	96,52	106,70	
R		M	14b. Solid Fuels (fossil)	Petajoule (PJ)	PJ	17,91	1,19	2,27	1,66	0,00	0,90	1,90	2,40	2,27	1,66	0,90	1,90	2,40	
R		M	14c. Gaseous Fuels	Petajoule (PJ)	PJ	33,55	49,49	64,59	80,25	0,00	0,00	111,29	0,00	64,59	80,25	0,00	111,29	0,00	
R		M	14d. Renewables	Petajoule (PJ)	PJ	62,04	63,15	69,56	45,26	0,00	24,10	23,95	23,80	69,56	45,26	24,10	23,95	23,80	
			14e. Electricity	Petajoule (PJ)	PJ	0,00	0,00	60,00	58,65	0,00	56,70	57,15	57,00	60,00	58,65	56,70	57,15	57,00	
			14f. Heat (from CHP)	Petajoule (PJ)	PJ	0,00	0,00	54,00	51,45	0,00	50,50	43,15	37,40	54,00	51,45	50,50	43,15	37,40	
		M	14g. - Other Please Specify in Column Z	Petajoule (PJ)	PJ	2,37	2,29	5,06	5,94	0,00	0,00	7,17	0,00	5,06	5,94	0,00	7,17	0,00	Please specify what is included
R			15. Commercial (Tertiary)			49,27	57,96	103,18	94,70	0,00	94,30	89,80	77,30	103,18	94,70	94,30	89,80	77,30	
R		M	15a. Liquid Fuels (fossil)	Petajoule (PJ)	PJ	46,57	50,98	25,08	28,10	0,00	26,70	25,80	24,40	25,08	28,10	26,70	25,80	24,40	
R		M	15b. Solid Fuels (fossil)	Petajoule (PJ)	PJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
R		M	15c. Gaseous Fuels	Petajoule (PJ)	PJ	2,58	6,82	10,77	0,00	0,00	0,00	0,00	0,00	10,77	0,00	0,00	0,00	0,00	
		M	15d. Renewables	Petajoule (PJ)	PJ	0,11	0,16	1,33	2,00	0,00	3,00	2,40	2,90	1,33	2,00	3,00	2,40	2,90	
			15e. Electricity	Petajoule (PJ)	PJ	0,0000	0,0000	65,10	62,80	0,00	62,00	61,10	49,30	65,10	62,80	62,00	61,10	49,30	
			15f. Heat	Petajoule (PJ)	PJ	0,0000	0,0000	0,90	1,80	0,00	2,60	0,50	0,70	0,90	1,80	2,60	0,50	0,70	
		M	15g. - Other Please Specify in Column Z	Petajoule (PJ)	PJ	0,0000	0,0000	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please specify what is included
R			16. Residential			82,65	74,97	70,07	87,30	0,00	86,30	81,70	83,80	70,07	87,30	86,30	81,70	83,80	
R		M	16a. Liquid Fuels (fossil)	Petajoule (PJ)	PJ	36,02	29,96	28,46	36,30	0,00	35,60	30,20	31,80	28,46	36,30	35,60	30,20	31,80	
R		M	16b. Solid Fuels (fossil)	Petajoule (PJ)	PJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
R		M	16c. Gaseous Fuels	Petajoule (PJ)	PJ	3,19	8,39	11,83	0,00	0,00	0,00	0,00	0,00	11,83	0,00	0,00	0,00	0,00	
R		M	16d. Renewables	Petajoule (PJ)	PJ	43,44	36,61	29,78	2,00	0,00	3,00	2,40	2,90	29,78	2,00	3,00	2,40	2,90	
			16e. Electricity	Petajoule (PJ)	PJ	0,00	0,00	0,00	49,00	0,00	47,70	48,90	48,90	0,00	49,00	47,70	48,90	48,90	
			16f. Heat	Petajoule (PJ)	PJ	0,00	0,00	0,00	0,00	0,00	0,00	0,20	0,20	0,00	0,00	0,00	0,20	0,20	
		M	16g. - Other Please Specify in Column Z	Petajoule (PJ)	PJ	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please specify what is included

R				17. Transport				261,19	267,32	256,57	238,01	0,00	221,82	215,95	204,57	256,57	238,01	221,82	215,95	204,57	
R		M		17a. Gasoline	Petajoule (PJ)	PJ		90,34	78,82	60,90	51,75	0,00	39,00	26,56	14,90	60,90	51,75	39,00	26,56	14,90	
				of which biofuels	Petajoule (PJ)	PJ		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				17b. Diesel	Petajoule (PJ)	PJ		160,12	177,51	184,00	174,26	0,00	170,50	176,74	176,70	184,00	174,26	170,50	176,74	176,70	
				of which biofuels	Petajoule (PJ)	PJ		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				17c. Jet Kerosene	Petajoule (PJ)	PJ		5,21	5,96	6,71	7,46	0,00	8,22	8,97	9,72	6,71	7,46	8,22	8,97	9,72	
				17d. Other liquid fuels	Petajoule (PJ)	PJ		4,51	4,09	3,66	3,23	0,00	2,81	2,38	1,95	3,66	3,23	2,81	2,38	1,95	
R		M		17e. Gas (fossil)	Petajoule (PJ)	PJ		1,00	0,94	1,30	1,30	0,00	1,30	1,30	1,30	1,30	1,30	1,30	1,30	1,30	
R		M		17f. Electricity	Petajoule (PJ)	PJ		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				17g. Renewables																	
		M		17h. - Other Please Specify in Column Z	Petajoule (PJ)	PJ		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please specify what is included
R				Weather parameters																	
R				18a. Heating Degree Days	Annual HDD	annual HDD		1 267,81	1 360,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
R				18b. Cooling Degree Days	Annual CDD	annual CDD		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				Industry sector (for industrial sectors contributing significantly to the national total for the base or target year)																	
		I		19. Gross value-added total industry, Bio Euro (€C95) 2000	Value (EUR billion)	EUR billion		0,00	0,00	13,64	13,89	0,00	13,38	14,07	14,78	13,64	13,89	13,38	14,07	14,78	
				For Member States using Macroeconomic Models:																	
				20. The share of the industrial sector in GDP	%			0,00	0,00	12,00	12,00	0,00	11,00	11,00	11,00	12,00	12,00	11,00	11,00	11,00	
R				Industry	Value (€)	Millions of euro		0,00	0,00	16 271,16	16 622,64	0,00	16 002,03	16 828,46	17 649,61	16 271,16	16 622,64	16 002,03	16 828,46	17 649,61	Millions of euros
				Chemical	Value (€)	Millions of euro		0,00	595,34	570,98	563,25	0,00	573,57	584,07	594,76	570,98	563,25	573,57	584,07	594,76	Millions of euros
				Ceramics	Value (€)	Millions of euro		0,00	640,68	539,82	532,51	0,00	542,26	552,19	562,31	539,82	532,51	542,26	552,19	562,31	Millions of euros
				Cement	Value (€)	Millions of euro		0,00	449,68	408,48	402,95	0,00	410,33	417,84	425,50	408,48	402,95	410,33	417,84	425,50	Millions of euros
				Lime & Plaster	Value (€)	Millions of euro		0,00	10,77	11,49	11,33	0,00	11,54	11,75	11,97	11,49	11,33	11,54	11,75	11,97	Millions of euros
				Pulp & Paper	Value (€)	Millions of euro		0,00	638,73	683,77	674,51	0,00	686,86	699,44	712,25	683,77	674,51	686,86	699,44	712,25	Millions of euros
				Glass	Value (€)	Millions of euro		0,00	257,07	275,02	271,29	0,00	276,26	281,32	286,47	275,02	271,29	276,26	281,32	286,47	Millions of euros
				Iron & Steel	Value (€)	Millions of euro		0,00	1 808,08	2 060,56	2 032,66	0,00	2 069,88	2 107,78	2 146,38	2 060,56	2 032,66	2 069,88	2 107,78	2 146,38	Millions of euros
				Mechanical & Equipment	Value (€)	Millions of euro		0,00	2 565,63	2 542,46	2 508,04	0,00	2 553,97	2 600,73	2 648,36	2 542,46	2 508,04	2 553,97	2 600,73	2 648,36	Millions of euros
				Others industries	Value (€)	Millions of euro		0,00	8 949,14	8 573,45	8 457,37	0,00	8 612,24	8 769,94	8 930,54	8 573,45	8 457,37	8 769,94	8 930,54	8 769,94	Millions of euros
				21. The growth of the industrial sector in GDP	Annual growth rate (%)	%		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Millions of euros
				For Member States using other models:																	
				22. The production index for Industrial Sector: (suggested split is energy intensive industry based on physical production and manufacturing industry based on monetary value)																	
R					Gross value added	%															
				Transport sector																	
				For Member States using macroeconomic models:																	
R				23. The growth of transport relative to GDP	Gg fuel consumed/GDP	Gg fuel consumed/GDP		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				For Member States using other models:																	
R				24a. Growth of Passenger person kilometres (all transport modes in absolute figures)	million passenger km	million passenger km		0,00	91 457	92 566	93 006	0,00	92 994	95 113	97 311	92 566	93 006	92 994	95 113	97 311	
				24b. Total kilometres by passenger cars, Mpkm	million passenger km	million passenger km		0,00	75 143	75 192	75 241	0,00	75 290	76 795	78 331	75 192	75 241	75 290	76 795	78 331	
R				25a. The growth of freight tonne kilometres (all transport modes in absolute figures)	million tonne km	million tonne km		0,00	26 067	27 863	30 300	0,00	33 048	34 794	36 634	27 863	30 300	33 048	34 794	36 634	
				25b. Road freight transport, Mtkm	million tonne km	million tonne km		0,00	23 828	25 779	28 155	0,00	30 745	32 313	33 961	25 779	28 155	30 745	32 313	33 961	
				Buildings (in residential and commercial or tertiary sector)																	
		I		26. Gross value-added — services, Bio Euro (€C95)	Value (EUR billion)	EUR billion		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				For Member States using macroeconomic models:																	
R				27. The level of private consumption (excluding private transport)	Value (€)	Millions of euro		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				28. The share of the tertiary sector in GDP and the growth rate (Implied Commercial GDP)	Value (€)	Millions of euro		0,00	0,00	1 785 000	0,00	0,00	0,00	1 741 000	0,00	0,00	0,00	0,00	0,00	0,00	
				For Member States using other models:																	
R		M		29. Average floor space per dwelling	m <sup>2</sup> / dwelling	m2 / dwelling		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
R		M		30. Average Floor space per employee	m <sup>2</sup> / employee	m2 / employee		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				. The number of dwellings and number of employees in the tertiary sector																	
R		M		31a. The number of dwellings	1000 dwellings	1000 dwellings		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
R		M		31b. Number of employees in the tertiary sector	1000 employees	1000 employees		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				Agriculture sector																	
				For Member States using macroeconomic models:																	
R				32. The share of the agriculture sector in GDP and relative growth	Value (€)	Millions of euro		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
				For Member States using other models:																	
				. The livestock numbers by animal type																	
				33. Total Cattle	1000 heads			1 408,55	1 470,00	1 430,00	1 387,83	0,00	1 293,00	1 163,50	1 034,00	1 430,00	1 387,83	1 293,00	1 163,50	1 034,00	
R		M		33a. Dairy cattle	1000 heads	1000 heads		352,91	289,67	278,00	257,50	0,00	260,00	237,50	215,00	278,00	257,50	260,00	237,50	215,00	
R		M		33b. Non-dairy cattle	1000 heads	1000 heads		1 055,64	1 180,33	1 152,00	1 130,33	0,00	1 033,00	926,00	819,00	1 152,00	1 130,33	1 033,00	926,00	819,00	
R		M		34. sheep	1000 heads	1000 heads		3 462,89	2 848,35	2 220,00	2 175,84	0,00	1 968,00	1 727,00	1 486,00	2 220,00	2 175,84	1 968,00	1 727,00	1 486,00	
R		M		35. swine	1000 heads	1000 heads		2 283,27	1 935,00	1 913,00	1 830,33	0,00	1 723,00	1 644,50	1 566,00	1 913,00	1 830,33	1 723,00	1 644,50	1 566,00	
R		M		36. poultry	1000 heads	1000 heads		38 165,40	30 914,67	35 352,00	34 124,70	0,00	35 352,00	35 352,00	35 352,00	35 352,00	34 124,70	35 352,00	35 352,00	35 352,00	
R		M		37. Other, please specify																	
				37.a. Rabbits	1000 heads	1000 heads		335,92	288,80	1 395,00	1 395,00	0,00	1 395,00	1 395,00	1 395,00	1 395,00	1 395,00	1 395,00	1 395,00	1 395,00	
				37.b. Goats	1000 heads	1000 heads		622,82	463,22	421,00	374,33	0,00	323,00	283,50	244,00	421,00	374,33	323,00	283,50	244,00	
				37.c. Horses	1000 heads	1000 heads		58,25	51,67	56,00	56,00	0,00	56,00	56,00	56,00	56,00	56,00	56,00	56,00	56,00	
				37.d. Mules and Asses	1000 heads	1000 heads		68,97	40,00	42,71	22,33	0,00	22,33	22,33	22,33	42,71	22,33	22,33	22,33	22,33	
				38. The area of crops by crop type																	
				38.a. Permanent Crops	Hectares	Hectares		0,00	0,00	1 145 000	1 067 872	0,00	1 026 979	908 564	808 607	1 145 000,00	1 067 872,49	1 026 979,00	908 564,22	808 606,88	
				38.b. Rice	Hectares	Hectares		0,00	0,00	29 000	26 803	0,00	25 543	22 391	19 689	29 000,00	26 803,21	25 543,39	22 390,77	19 688,83	
				38.c. Orchards	Hectares	Hectares		0,00	0,00	133 000	129 063	0,00	127 288	120 518	114 936	133 000,00	129 062,53	127 288,06	120 517,51	114 936,50	
				38.d. Wine/ Grapes	Hectares	Hectares		0,00	0,00	174 000	168 347	0,00	163 203	159 495	155 445	174 000,00	168 346,89	163 202,99	159 494,72	155 444,63	
				38.e. Olives	Hectares	Hectares		0,00	0,00	342 000	327 192	0,00	318 337	297 924	280 263	342 0					

R		42. enteric fermentation - sheep	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads	18,45	16,39	20,52	21,54	0,00	23,50	23,58	23,51	20,52	21,54	23,50	23,58	23,51	
R		43. manure management - dairy cattle	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads	186,45	224,41	242,00	240,04	0,00	238,08	235,94	233,81	242,00	240,04	238,08	235,94	233,81	
R		44. manure management - non-dairy cattle	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads					0,00									
R		45. manure management - sheep	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads	21,76	29,31	52,07	51,89	0,00	51,72	51,73	51,75	52,07	51,89	51,72	51,73	51,75	
R		46. manure management - swine	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads	431,93	371,54	554,70	553,7855881	0,00	552,87	552,04	551,20	554,70	553,79	552,87	552,04	551,20	
R		47. manure management - poultry	t CO2-equivalent / 1000 heads	t CO2-equivalent / 1000 heads	0,41	0,29	0,36	0,36	0,00	0,36	0,36	0,36	0,36	0,36	0,36	0,36	0,36	
R		48. fertilizer use & crops																
R		Synthetic fertilizer	kg N2O-N/kg N	kg N2O-N/kg N	160 264 898,66	96 792 631,24	99 118 446,15	57 578 872,84	0,00	36 881 113,75	0,00	0,00	99 118 446,15	57 578 872,84	36 881 113,75	0,00	0,00	
R		Manure	kg N2O-N/kg N	kg N2O-N/kg N	55 000 300,19	46 600 030,36	43 510 977,81	27 005 646,58	0,00	31 136 452,56	0,00	0,00	43 510 977,81	27 005 646,58	31 136 452,56	0,00	0,00	
R		Wheat	tonne by crop type	tonne by crop type	286 820,67	207 992,00	103 361,50	0,00	0,00	0,00	0,00	0,00	103 361,50	0,00	0,00	0,00	0,00	
		Rye	tonne by crop type	tonne by crop type	42 087,67	19 747,00	17 553,00	0,00	0,00	0,00	0,00	0,00	17 553,00	0,00	0,00	0,00	0,00	
		Oats	tonne by crop type	tonne by crop type	83 605,00	25 151,00	66 145,00	0,00	0,00	0,00	0,00	0,00	66 145,00	0,00	0,00	0,00	0,00	
		Barley	tonne by crop type	tonne by crop type	26 084,67	52 690,33	51 709,50	0,00	0,00	0,00	0,00	0,00	51 709,50	0,00	0,00	0,00	0,00	
		Triticale	tonne by crop type	tonne by crop type	40 293,00	8 252,00	25 871,00	0,00	0,00	0,00	0,00	0,00	25 871,00	0,00	0,00	0,00	0,00	
		Maize	tonne by crop type	tonne by crop type	909 278,67	617 284,67	630 145,50	0,00	0,00	0,00	0,00	0,00	630 145,50	0,00	0,00	0,00	0,00	
		Rice	tonne by crop type	tonne by crop type	146 731,00	125 947,00	170 216,00	0,00	0,00	0,00	0,00	0,00	170 216,00	0,00	0,00	0,00	0,00	
		Beans	tonne by crop type	tonne by crop type	6 143,00	2 762,00	2 042,00	0,00	0,00	0,00	0,00	0,00	2 042,00	0,00	0,00	0,00	0,00	
		Peas	tonne by crop type	tonne by crop type	6 973,67	7 000,00	7 700,00	0,00	0,00	0,00	0,00	0,00	7 700,00	0,00	0,00	0,00	0,00	
		Chick-Peas	tonne by crop type	tonne by crop type	945,00	537,00	605,00	0,00	0,00	0,00	0,00	0,00	605,00	0,00	0,00	0,00	0,00	
		Potatoes	tonne by crop type	tonne by crop type	833 837,33	548 007,00	383 835,00	0,00	0,00	0,00	0,00	0,00	383 835,00	0,00	0,00	0,00	0,00	
		Tomatoes	tonne by crop type	tonne by crop type	890 594,00	1 085 065,00	1 406 084,00	0,00	0,00	0,00	0,00	0,00	1 406 084,00	0,00	0,00	0,00	0,00	
		Sunflower	tonne by crop type	tonne by crop type	28 566,00	2 398,00	7 611,00	0,00	0,00	0,00	0,00	0,00	7 611,00	0,00	0,00	0,00	0,00	
		Tobacco	tonne by crop type	tonne by crop type	6 135,00	4 749,00	936,00	0,00	0,00	0,00	0,00	0,00	936,00	0,00	0,00	0,00	0,00	
		Sugar Beet	tonne by crop type	tonne by crop type	461 735,00	604 879,00	7 955,00	0,00	0,00	0,00	0,00	0,00	7 955,00	0,00	0,00	0,00	0,00	
		Hops	tonne by crop type	tonne by crop type	41,00	27,00	23,00	0,00	0,00	0,00	0,00	0,00	23,00	0,00	0,00	0,00	0,00	
		Fresh Fruit	tonne by crop type	tonne by crop type	475 644,00	463 835,00	464 228,00	0,00	0,00	0,00	0,00	0,00	464 228,00	0,00	0,00	0,00	0,00	
		Major subtropical fruits	tonne by crop type	tonne by crop type	41 347,00	39 563,00	46 330,00	0,00	0,00	0,00	0,00	0,00	46 330,00	0,00	0,00	0,00	0,00	
		Citrus	tonne by crop type	tonne by crop type	315 868,00	271 310,00	241 052,00	0,00	0,00	0,00	0,00	0,00	241 052,00	0,00	0,00	0,00	0,00	
		Main nuts	tonne by crop type	tonne by crop type	55 300,00	39 195,00	33 054,00	0,00	0,00	0,00	0,00	0,00	33 054,00	0,00	0,00	0,00	0,00	
		Wine/ Grapes	tonne by crop type	tonne by crop type	913 587,00	973 117,00	947 299,00	0,00	0,00	0,00	0,00	0,00	947 299,00	0,00	0,00	0,00	0,00	
		Sugar cane	tonne by crop type	tonne by crop type	4 000,00	4 333,33	5 100,00	0,00	0,00	0,00	0,00	0,00	5 100,00	0,00	0,00	0,00	0,00	
		Olives	tonne by crop type	tonne by crop type	174 418,00	211 070,00	445 301,00	0,00	0,00	0,00	0,00	0,00	445 301,00	0,00	0,00	0,00	0,00	
		Other non-specified cereals	tonne by crop type	tonne by crop type	29 849,33	21 715,67	30 580,50	0,00	0,00	0,00	0,00	0,00	30 580,50	0,00	0,00	0,00	0,00	
		Other non-specified	tonne by crop type	tonne by crop type	16 765 001,33	16 888 588,33	16 707 833,00	0,00	0,00	0,00	0,00	0,00	16 707 833,00	0,00	0,00	0,00	0,00	
		Waste sector																
R		49. Municipal solid waste generation	kt	kt	3 841,00	4 127,50	4 728,21	0,00	0,00	0,00	0,00	0,00	4 728,21	0,00	0,00	0,00	0,00	
R		50. The organic fraction (DOC) of municipal solid waste	%	%	18,68	18,68	17,24	0,00	0,00	0,00	0,00	0,00	17,24	0,00	0,00	0,00	0,00	
R		51. Municipal solid waste disposed to landfills	%	%	72,08	71,61	70,44	0,00	0,00	0,00	0,00	0,00	70,44	0,00	0,00	0,00	0,00	
R		52. Municipal solid waste disposed incinerated	%	%	21,45	22,67	21,53	0,00	0,00	0,00	0,00	0,00	21,53	0,00	0,00	0,00	0,00	
R		53. Municipal solid waste disposed composted	%	%	6,47	5,72	8,03	0,00	0,00	0,00	0,00	0,00	8,03	0,00	0,00	0,00	0,00	
	I	54. Municipal solid waste disposed to landfills	kt	kt	276 861,51	295 583,23	333 070,96	0,00	0,00	0,00	0,00	0,00	333 070,96	0,00	0,00	0,00	0,00	
		Forestry Sector																
R		55. Forest Definitions	Not specified		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	Please add definition text here
R		56. Area of Managed Forest	1000 Hectares	1000 Hectares	0,00	0,00	3 175,31	3 114,40	0,00	3 053,50	2 945,15	2 836,80	3 175,31	3 114,40	3 053,50	2 945,15	2 836,80	
R		57. Area of Unmanaged Forest	1000 Hectares	1001 Hectares	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
		Please add additional rows for other important parameters that provide transparency to your projections.	Not specified	Please specify unit														
		Please add additional rows for other important parameters that provide transparency to your projections.	Not specified	Please specify unit														
		Please add additional rows for other important parameters that provide transparency to your projections.	Not specified	Please specify unit														
		Please add additional rows for other important parameters that provide transparency to your projections.	Not specified	Please specify unit														
		Please add additional rows for other important parameters that provide transparency to your projections.	Not specified	Please specify unit														

Projection parameters for which reporting is recommended.																
Activity	Suggested units	Units reported	Scenario 'with existing measures'								Scenario 'with additional measures'					Member State notes
			2000	2005	2010	2015	2019	2020	2025	2030	2010	2015	2020	2025	2030	
Assumptions for general economic parameters	Not specified	Please specify unit														
GDP growth rates split by industrial sectors in relation to 2000	Not specified	Please specify unit														
Comparison projected data with official forecasts	Not specified	Please specify unit														
Assumptions for the energy sector	Not specified	Please specify unit														
National coal, oil and gas energy prices per sector (including taxes) suggested sectors are electricity and heat generation, industry, commercial, residential and transport. Constant prices should be quoted.	Not specified	Please specify unit														
National electricity prices per sector as above (may be model output)	Not specified	Please specify unit														
Total production of district heating by fuel type	Not specified	Please specify unit														
Assumptions for the industry sector	Not specified	Please specify unit														
Assumptions fluorinated gases:	Not specified	Please specify unit														
Aluminium production and emissions factors	Not specified	Please specify unit														
Magnesium production and emissions factors	Not specified	Please specify unit														
Foam production and emissions factors	Not specified	Please specify unit														
Stock of refrigerant and leakage rates	Not specified	Please specify unit														
For Member States using macroeconomic models:	Not specified	Please specify unit														
Share of GDP for different sectors and growth rates	Not specified	Please specify unit														
Rate of improvement of energy intensity (1990 = 100)	Not specified	Please specify unit														
For Member States using other models:	Not specified	Please specify unit														
Index of production for different sectors	Not specified	Please specify unit														
Rate of improvement or index of energy efficiency	Not specified	Please specify unit														
Assumptions for buildings (in residential and commercial or tertiary sector)	Not specified	Please specify unit														
For Member States using macroeconomic models:	Not specified	Please specify unit														
Share of tertiary and household sectors in GDP	Not specified	Please specify unit														
Rate of improvement of energy intensity	Not specified	Please specify unit														
For Member States using other models:	Not specified	Please specify unit														
Number of households	Not specified	Please specify unit														
Number of new buildings	Not specified	Please specify unit														
Rate of improvement of energy efficiency (1990 = 100)	Not specified	Please specify unit														
Assumptions for the transport sector	Not specified	Please specify unit														
For Member States using econometric models:	Not specified	Please specify unit														
Growth of transport relative to GDP split by passenger and freight	Not specified	Please specify unit														
Improvements in energy efficiency split by vehicle type	Not specified	Please specify unit														
Improvements in energy efficiency split by vehicle type, specify whether it applies to whole fleet or new cars	Not specified	Please specify unit														
Rate of change of modal split (passenger and freight)	Not specified	Please specify unit														
The growth of passenger road kilometres	Not specified	Please specify unit														
The growth of passenger rail kilometres	Not specified	Please specify unit														
The growth of passenger aviation kilometres	Not specified	Please specify unit														
The growth of freight tonne kilometres on the road	Not specified	Please specify unit														
The growth of freight tonne kilometres by rail	Not specified	Please specify unit														
The growth of freight tonne kilometres by navigation	Not specified	Please specify unit														



Assumptions for the agriculture sector	Not specified	Please specify unit														
For Member States using econometric models:	Not specified	Please specify unit														
Agricultural trade (import/export)	Not specified	Please specify unit														
Domestic consumption (e.g. milk/beef consumption)	Not specified	Please specify unit														
For Member States using other models:	Not specified	Please specify unit														
Development of area of crops, grassland, arable, set-aside, conversion to forests etc	Not specified	Please specify unit														
Macroeconomic assumptions behind projections of agricultural activity	Not specified	Please specify unit														
Description of livestock (e.g. by input/nutrient balance, output/animal production, milk production quota/productivity of cattle)	Not specified	Please specify unit														
Development of farming types (e.g. intensive conventional, organic farming)	Not specified	Please specify unit														
Distribution of housing/grazing systems and housing/grazing period	Not specified	Please specify unit														
Parameters of fertiliser regime:	Not specified	Please specify unit														
Details of fertiliser use (type of fertiliser, timing of application, inorganic/organic ratio);	Not specified	Please specify unit														
Volatilisation rate of ammonia, following spreading of manure on the soil;	Not specified	Please specify unit														
Efficiency of manure use.	Not specified	Please specify unit														
Parameters of manure management system:	Not specified	Please specify unit														
Distribution of storage facilities (e.g. with or without cover):	Not specified	Please specify unit														
Nitrogen excretion rate of manures	Not specified	Please specify unit														
Methods of application of manure	Not specified	Please specify unit														
Extent of introduction of control measures (storage systems, manure application), use of best available techniques	Not specified	Please specify unit														
Parameters related to nitrous oxide emissions from agricultural soils (e.g., Nitrogen leaching fraction, emission factor for direct emissions, Nitrogen content in crop residues)	Not specified	Please specify unit														
Amount of manure treatment	Not specified	Please specify unit														

Equivalent dataset (MS should use and report projections parameters time series consistent with the CRF where possible. This column includes data sources key parameter should be consistent with.)
Eurostat, nama_gdp_k (Millions of euro, chain-linked volumes, reference year 2000 (at 2000 exchange rates))
Eurostat, Population on 1 January by age and sex [demo_pjan] for the correct geographical coverage
Recommendations for reporting on projections in 2013' as sent by the EC on 14.08.2012
Recommendations for reporting on projections in 2013' as sent by the EC on 14.08.2012
Recommendations for reporting on projections in 2013' as sent by the EC on 14.08.2012
Recommendations for reporting on projections in 2013' as sent by the EC on 14.08.2012
CRF Table1.A(a)s1 (cell B8)
CRF Table1.A(a)s1 (cell B9)
CRF Table1.A(a)s1 (cell B10)
CRF Table1.A(a)s1 (cell B11)
CRF Table1.A(a)s1 (cell B12)
CRF Eurostat: Supply, transformation, consumption - all products - annual data [nrg_100a], Transformation input - Nuclear Power Stations
CRF Eurostat: Imports (from all countries) - electricity - annual data [nrg_125a] minus Exports (from all countries) - electricity - annual data [nrg_135a]
CRF Table1.A(a)s1 (cell B13)
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a], Gross electricity generation - nuclear
Eurostat: Supply, transformation, consumption - electricity - annual data [nrg_105a]
CRF Table1.A(a)s1 (cell B15)
CRF Table1.A(a)s1 (cell B16)
CRF Table1.A(a)s1 (cell B17)
CRF Table1.A(a)s1 (cell B18)
Eurostat: Supply, transformation, consumption - all products - annual data [nrg_100a], Transformation input - Nuclear Power Stations
CRF Table1.A(a)s1 (cell B19)
CRF Table1.A(a)s2 (cell B9)
CRF Table1.A(a)s2 (cell B10)
CRF Table1.A(a)s2 (cell B11)
CRF Table1.A(a)s2 (cell B12)
CRF Table1.A(a)s2 (cell B13)
CRF Table1.A(a)s4 (all liquid fuels excluding cell B21 - residential)
CRF Table1.A(a)s4 (all solid fuels excluding cell B22 - residential)
CRF Table1.A(a)s4 (all gaseous fuels excluding cell B23 - residential)
CRF Table1.A(a)s4 (all renewables excluding cell B24 - residential)
CRF Table1.A(a)s4 (all other fuels excluding cell B25 - residential)
CRF Table1.A(a)s4 (cell B21)
CRF Table1.A(a)s4 (cell B22)
CRF Table1.A(a)s4 (cell B23)
CRF Table1.A(a)s4 (cell B24)
CRF Table1.A(a)s4 (cell B25)



[illegible]



[illegible]