

ANNEX 7

Approach 1 uncertainty analysis for Slovenia

A	B	C	D	E	F	G	H	I	J	K	L	M
IPCC Category	Gas	Emissions or removals 1986	Emissions or removals 2007	AD uncertainty	EF parameter uncertainty	combined uncertainty	Contribution to variance in 2007	Type A sensitivity	Type B sensitivity	Uncertainty in trend by EF	Uncertainty in trend by AD	Uncertainty in trend
		Gg CO2 eq	Gg CO2 eq	%	%	%		%	%	%	%	%
1. ENERGY												
1.A. Fuel Combustion												
Liquid Fuels	CO2	4755,939	8523,438	3	2,5	3,91	2,445	0,174	0,421	0,434	1,788	3,384
Solid Fuels	CO2	8932,732	6429,778	3	2,5	3,91	1,392	0,146	0,318	0,365	1,349	1,952
Gaseous Fuels	CO2	1468,239	1802,473	2	2,5	3,20	0,074	0,013	0,089	0,032	0,252	0,065
Other Fuels	CO2	11,916	34,778	10	10	14,14	0,001	0,001	0,002	0,011	0,024	0,001
1.A.1. Energy Industries												
Liquid Fuels	CH4	0,251	0,021	3	75	75,06	0,000	0,000	0,000	0,001	0,000	0,000
Solid Fuels	CH4	1,308	1,240	3	75	75,06	0,000	0,000	0,000	0,001	0,000	0,000
Gaseous Fuels	CH4	0,231	0,118	2	75	75,03	0,000	0,000	0,000	0,000	0,000	0,000
Biomass	CH4	0,100	1,651	10	50	50,99	0,000	0,000	0,000	0,004	0,001	0,000
1.A.1. Energy Industries												
Liquid Fuels	N2O	0,761	0,253	3	75	75,06	0,000	0,000	0,000	0,002	0,000	0,000
Solid Fuels	N2O	25,429	25,636	3	50	50,09	0,004	0,000	0,001	0,003	0,005	0,000
Gaseous Fuels	N2O	0,111	0,158	2	50	50,04	0,000	0,000	0,000	0,000	0,000	0,000
Biomass	N2O	0,196	3,239	10	150	150,33	0,001	0,000	0,000	0,022	0,002	0,001
1.A.2 Manufacturing Industries and Const.												
Liquid Fuels	CH4	1,830	0,721	3	75	75,06	0,000	0,000	0,000	0,004	0,000	0,000
Solid Fuels	CH4	2,942	0,807	3	75	75,06	0,000	0,000	0,000	0,008	0,000	0,000
Gaseous Fuels	CH4	2,361	2,403	2	75	75,03	0,000	0,000	0,000	0,000	0,000	0,000
Biomass	CH4	3,174	2,174	10	50	50,99	0,000	0,000	0,000	0,003	0,002	0,000
Other	CH4	0,078	0,215	10	75	75,66	0,000	0,000	0,000	0,000	0,000	0,000
1.A.2 Manufacturing Industries and Const.												
Liquid Fuels	N2O	28,636	22,392	3	75	75,06	0,006	0,000	0,001	0,029	0,005	0,001
Solid Fuels	N2O	6,080	1,668	3	50	50,09	0,000	0,000	0,000	0,012	0,000	0,000
Gaseous Fuels	N2O	0,697	0,710	2	50	50,04	0,000	0,000	0,000	0,000	0,000	0,000
Biomass	N2O	6,248	4,279	10	150	150,33	0,001	0,000	0,000	0,017	0,003	0,000
Other	N2O	0,153	0,440	10	75	75,66	0,000	0,000	0,000	0,001	0,000	0,000
1.A.3 Transport												
a. Civil Aviation												
Aviation Gasoline	CH4	0,000	0,001	5	100	100,12	0,000	0,000	0,000	0,000	0,000	0,000
b. Road Transportation												
Gasoline	CH4	21,971	9,091	2	50	50,04	0,000	0,001	0,000	0,035	0,001	0,001
Diesel Oil	CH4	1,433	2,712	2	50	50,04	0,000	0,000	0,000	0,003	0,000	0,000

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		Gg CO2 eq	Gg CO2 eq	%	%	%		%	%	%	%	%
Biomass	CH4		0,024	2	50	50,04	0,000	0,000	0,000	0,000	0,000	0,000
c. Railways												
Liquid Fuels	CH4	0,078	0,047	5	110	110,11	0,000	0,000	0,000	0,000	0,000	0,000
a. Civil Aviation												
Aviation Gasoline	N2O	0,005	0,043	5	150	150,08	0,000	0,000	0,000	0,000	0,000	0,000
b. Road Transportation												
Gasoline	N2O	20,991	49,689	2	300	300,01	0,491	0,001	0,002	0,409	0,007	0,168
Diesel Oil	N2O	7,645	41,177	2	150	150,01	0,084	0,002	0,002	0,246	0,006	0,060
Diesel Oil from biomass	N2O		0,447	2	150	150,01	0,000	0,000	0,000	0,003	0,000	0,000
c. Railways												
Liquid Fuels	N2O	8,651	5,150	5	150	150,08	0,001	0,000	0,000	0,029	0,002	0,001
1.A.4 Other Sectors												
Liquid Fuels	CH4	2,468	5,012	5	75	75,17	0,000	0,000	0,000	0,009	0,002	0,000
Solid Fuels	CH4	49,276		10	75	75,66	0,000	0,003	0,000	0,192	0,000	0,037
Gaseous Fuels	CH4	0,065	0,503	3	75	75,06	0,000	0,000	0,000	0,002	0,000	0,000
Biomass	CH4	99,464	85,516	20	150	151,33	0,370	0,001	0,004	0,142	0,120	0,034
1.A.4 Other Sectors												
Liquid Fuels	N2O	50,232	32,128	5	75	75,17	0,013	0,001	0,002	0,077	0,011	0,006
Solid Fuels	N2O	5,407		10	75	75,66	0,000	0,000	0,000	0,021	0,000	0,000
Gaseous Fuels	N2O	0,019	0,149	3	75	75,06	0,000	0,000	0,000	0,000	0,000	0,000
Biomass	N2O	19,577	16,839	20	150	151,33	0,014	0,000	0,001	0,028	0,024	0,001
B. Fugitive Emissions from Fuels												
1. Solid Fuels												
a. Coal Mining and Handling	CO2	120,238	81,769	3	150	150,03	0,332	0,002	0,004	0,332	0,017	0,110
a. Coal Mining and Handling	CH4	358,906	254,405	3	30	30,15	0,130	0,006	0,013	0,183	0,053	0,036
2. Oil and Natural Gas												
b. Natural Gas	CO2	0,007	0,003	5	50	50,25	0,000	0,000	0,000	0,000	0,000	0,000
a. Oil	CH4	0,422	0,000	3	30	30,15	0,000	0,000	0,000	0,001	0,000	0,000
b. Natural Gas	CH4	56,205	29,898	5	50	50,25	0,005	0,001	0,001	0,072	0,010	0,005
2. INDUSTRIAL PROCESSES												
A. Mineral Products												
1. Cement Production	CO2	514,615	608,046	2	2	2,83	0,007	0,003	0,030	0,007	0,085	0,007
2. Lime Production	CO2	220,206	110,007	10	5	11,18	0,003	0,006	0,005	0,030	0,077	0,007
3. Limestone and Dolomite Use	CO2	19,051	89,412	20	10	22,36	0,009	0,003	0,004	0,034	0,125	0,017

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IPCC Category	Gas	Emissions or removals 1986	Emissions or removals 2007	AD uncertainty	EF parameter uncertainty	combined uncertainty	Contribution to variance in 2007	Type A sensitivity	Type B sensitivity	Uncertainty in trend by EF	Uncertainty in trend by AD	Uncertainty in trend
		Gg CO2 eq	Gg CO2 eq	%	%	%		%	%	%	%	%
4. Soda Ash Production and Use	CO2	7,827	21,523	10	5	11,18	0,000	0,001	0,001	0,003	0,015	0,000
7. Other (glass production)	CO2	4,528	10,556	5	2	5,39	0,000	0,000	0,001	0,001	0,004	0,000
B. Chemical Industry												
4. Carbide Production	CO2	44,985	14,186	20	5	20,62	0,000	0,002	0,001	0,008	0,020	0,000
B. Chemical Industry												
4. Carbide Production	CH4	0,783	0,000	20	20	28,28	0,000	0,000	0,000	0,001	0,000	0,000
5. Other (Methanol)	CH4	2,929	3,830	30	80	85,44	0,000	0,000	0,000	0,003	0,008	0,000
C. Metal Production												
1. Iron and Steel Production	CO2	40,149	30,814	5	5	7,07	0,000	0,001	0,002	0,003	0,011	0,000
2. Ferroalloys Production	CO2	57,635	6,138	10	10	14,14	0,000	0,003	0,000	0,027	0,004	0,001
3. Aluminium Production	CO2	89,402	133,257	10	10	14,14	0,008	0,002	0,007	0,019	0,093	0,009
C. Metal Production												
3. Aluminium Production	PFC	276,291	19,154	10	10	14,14	0,000	0,013	0,001	0,134	0,013	0,018
F. Consumption of Halocarbons and SF6												
1. Refrigeration and Air Conditioning Equipment	HFC		119,577	30	50	58,31	0,107	0,006	0,006	0,296	0,251	0,150
2. Foam Blowing	HFC		0,504	30	50	58,31	0,000	0,000	0,000	0,001	0,001	0,000
3. Fire Extinguishers	HFC		0,182	30	50	58,31	0,000	0,000	0,000	0,000	0,000	0,000
8. Electrical Equipment	SF6	10,241	18,840	10	0	10,00	0,000	0,000	0,001	0,000	0,013	0,000
3. SOLVENTS AND OTHER PRODUCT USED												
	N2O	81,903	27,590	50	20	53,85	0,005	0,003	0,001	0,058	0,096	0,013
4. AGRICULTURE												
A. Enteric Fermentation	CH4	680,537	678,185	10	20	22,36	0,508	0,002	0,034	0,037	0,474	0,226
B. Manure Management	CH4	468,352	434,314	10	30	31,62	0,416	0,003	0,021	0,087	0,304	0,100
B. Manure Management	N2O	276,035	155,545	50	100	111,80	0,668	0,007	0,008	0,667	0,544	0,740
D. Agricultural Soils												
1. Direct Soil Emissions	N2O	434,944	368,179	10	250	250,20	18,731	0,004	0,018	1,106	0,257	1,289
2. Pasture, Range and Paddock Manure	N2O	23,871	54,417	50	100	111,80	0,082	0,001	0,003	0,145	0,190	0,057
3. Indirect Emissions	N2O	334,317	287,206	50	250	254,95	11,835	0,003	0,014	0,798	1,004	1,645
5. LULUCF												
A. Forest Land												
1. Forest Land remaining Forest Land	CO2	-9762,935	-10800,801			25,00	448,292	0,044	0,891	0,000	0,000	0,000
2. Land converted to Forest Land	CO2	-111,548	-111,982			70,00	0,378	0,000	0,009	0,000	0,000	0,000
1. Forest Land remaining Forest Land	CH4	0,000	1,708			70,00	0,000	0,000	0,000	0,000	0,000	0,000
1. Forest Land remaining Forest Land	N2O	0,000	0,000			70,00	0,000	0,000	0,000	0,000	0,000	0,000
B. Cropland												
	CO2	801,267	870,394			75,00	26,201	0,002	0,072	0,000	0,000	0,000

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		Gg CO2 eq	Gg CO2 eq	%	%	%		%	%	%	%	%
C. Grassland	CO ₂	966,447	1508,943			75,00	78,748	0,041	0,124	0,000	0,000	0,000
6. WASTE												
A. Solid Waste Disposal on Land	CH ₄	298,801	399,752	30	40	50,00	2,456	0,007	0,033	0,282	1,399	2,037
B. Waste Water Handling												
1. Industrial Wastewater	CH ₄	96,116	15,615	25	50	55,90	0,005	0,007	0,001	0,353	0,046	0,127
2. Domestic and Commercial Waste Water	CH ₄	112,561	141,188	10	100	100,50	1,238	0,002	0,012	0,188	0,165	0,062
2. Domestic and Commercial Waste Water	N ₂ O	58,858	59,976	15	250	250,45	1,387	0,000	0,005	0,040	0,105	0,013
C. Incineration	CO ₂		3,575	5	97	97,13	0,001					
C. Incineration	N ₂ O		0,068	5	100	100,12	0,000					
TOTAL		12120,639	12753,093				663,836					30,485
INVENTORY UNCERTAINTY 2008	%						25,765					5,521

A	B	C	E	F	G	H
IPCC Category	Gas	Emissions or removals 1986	AD uncertainty	EF/parameter uncertainty	combined uncertainty	Contribution to variance in 1986
		Gg CO2 eq	%	%	%	
1. Energy						
1.A. Fuel Combustion						
Liquid Fuels	CO2	4761,623195	5	2,5	5,59	1,473
Solid Fuels	CO2	8932,731698	10	5	11,18	20,742
Gaseous Fuels	CO2	1468,238644	5	2,5	5,59	0,140
Other Fuels	CO2	11,91591382	10	10	14,14	0,000
1.A.1. Energy Industries						
Liquid Fuels	CH4	0,250841512	5	75	75,17	0,000
Solid Fuels	CH4	1,307811694	10	75	75,66	0,000
Gaseous Fuels	CH4	0,231357935	5	75	75,17	0,000
Biomass	CH4	0,0996723	10	50	50,99	0,000
1.A.1. Energy Industries						
Liquid Fuels	N2O	0,761	5	75	75,17	0,000
Solid Fuels	N2O	25,429	10	50	50,99	0,003
Gaseous Fuels	N2O	0,111	5	50	50,25	0,000
Biomass	N2O	0,196	10	150	150,33	0,000
1.A.2 Manufacturing Industries and Construction						
Liquid Fuels	CH4	2,293	5	75	75,17	0,000
Solid Fuels	CH4	2,942	10	75	75,66	0,000
Gaseous Fuels	CH4	2,361	5	75	75,17	0,000
Biomass	CH4	3,174	10	50	50,99	0,000
Other	CH4	0,078	10	50	50,99	0,000
1.A.2 Manufacturing Industries and Construction						
Liquid Fuels	N2O	28,875	5	75	75,17	0,010
Solid Fuels	N2O	6,080	10	50	50,99	0,000
Gaseous Fuels	N2O	0,697	5	50	50,25	0,000
Biomass	N2O	6,248	10	150	150,33	0,002
Other	N2O	0,153	10	150	150,33	0,000
1.A.3 Transport						
a. Civil Aviation						
Aviation Gasoline	CH4	0,000	5	100	100,12	0,000
b. Road Transportation						
Gasoline	CH4	17,275	5	50	50,25	0,002
Diesel Oil	CH4	0,945	5	50	50,25	0,000
Diesel Oil from biomass	CH4	0,000	5	50	50,25	0,000

c. Railways						
Liquid Fuels	CH4	0,078	5	110	110,11	0,000
a. Civil Aviation						
Aviation Gasoline	N2O	0,005	5	150	150,08	0,000
b. Road Transportation						
Gasoline	N2O	10,055	5	300	300,04	0,019
Diesel Oil	N2O	13,641	5	150	150,08	0,009
Diesel Oil from biomass	N2O	0,000	5	150	150,08	0,000
c. Railways						
Liquid Fuels	N2O	8,651	5	150	150,08	0,004
1.A.4 Other Sectors						
Liquid Fuels	CH4	2,587	5	75	75,17	0,000
Solid Fuels	CH4	49,276	10	75	75,66	0,029
Gaseous Fuels	CH4	0,065	3	75	75,06	0,000
Biomass	CH4	99,464	20	150	151,33	0,471
1.A.4 Other Sectors						
Liquid Fuels	N2O	50,408	5	75	75,17	0,030
Solid Fuels	N2O	5,407	10	75	75,66	0,000
Gaseous Fuels	N2O	0,019	5	75	75,17	0,000
Biomass	N2O	19,577	20	150	151,33	0,018
B. Fugitive Emissions from Fuels						
1. Solid Fuels						
a. Coal Mining and Handling	CO2	120,238	10	150	150,33	0,679
SO2 scrubbing	CO2					
B. Fugitive Emissions from Fuels						
1. Solid Fuels						
a. Coal Mining and Handling	CH4	358,906	10	30	31,62	0,268
2. Oil and Natural Gas						
a. Oil	CH4	0,422	2	30	30,07	0,000
b. Natural Gas	CH4	56,205	5	50	50,25	0,017
2. Industrial Processes						
A. Mineral Products						
1. Cement Production	CO2	514,615	10	10	14,14	0,110
2. Lime Production	CO2	220,206	15	5	15,81	0,025
3. Limestone and Dolomite Use	CO2	20,305	20	10	22,36	0,000
4. Soda Ash Production and Use	CO2	10,290	10	5	11,18	0,000
7. Other (glass production)	CO2	0,226	10	10	14,14	0,000
B. Chemical Industry						
4. Carbide Production	CO2	44,985	20	5	20,62	0,002
B. Chemical Industry						

4. Carbide Production	CH4	0,783	20	20	28,28	0,000
5. Other (Methanol)	CH4	2,929	30	80	85,44	0,000
C. Metal Production						
1. Iron and Steel Production	CO2	40,149	10	10	14,14	0,001
2. Ferroalloys Production	CO2	57,635	10	10	14,14	0,001
3. Aluminium Production	CO2	89,402	10	10	14,14	0,003
C. Metal Production						
3. Aluminium Production	PFC	276,291	10	10	14,14	0,032
F. Consumption of Halocarbons and SF6						
1. Refrigeration and Air Conditioning Equipment	HFC					
2. Foam Blowing	HFC					
3. Fire Extinguishers	HFC					
8. Electrical Equipment	SF6	10,241	20	0	20,00	0,000
3. Solvent and Other Product Use	N2O	81,903	50	20	53,85	0,040
4. Agriculture						
A. Enteric Fermentation	CH4	765,086	10	20	22,36	0,609
B. Manure Management	CH4	509,785	10	30	31,62	0,540
B. Manure Management	N2O	268,295	50	100	111,80	1,871
D. Agricultural Soils (2)						
1. Direct Soil Emissions	N2O	434,006	10	250	250,20	24,521
2. Pasture, Range and Paddock Manure (3)	N2O	23,753	50	100	111,80	0,015
3. Indirect Emissions	N2O	333,371	50	250	254,95	15,022
5. Land Use, Land-Use Change and Forestry(1)						
A. Forest Land	CO2	1589,253	20	20	28,28	4,202
6. Waste						
A. Solid Waste Disposal on Land	CH4	298,801	30	40	50,00	0,464
B. Waste Water Handling						
1. Industrial Wastewater	CH4	96,116	20	100	101,98	0,200
2. Domestic and Commercial Waste Water	CH4	112,561	10	100	100,50	0,266
2. Domestic and Commercial Waste Water	N2O	58,716	15	250	250,45	0,450
TOTAL		21928,724				72,292
INVENTORY UNCERTAINTY 1986	%					8,502