

## APPENDIX 4: OVERVIEW OF INVENTORY COMPARISONS

*Note: Comparisons could be performed only for countries which submitted inventories under more than one reporting obligation. 0 indicates that there was no difference between emissions; an empty cell indicates that one (or both) of the inventories were not submitted; NH<sub>3</sub> is not reported under the EU-MM.*

**Table A4 1: Comparison of NECD, CLRTAP and EU-MM 2005 NO<sub>x</sub> inventories.**

NO <sub>x</sub>	1990					2005				
	LRTAP	NEC		EU-MM		LRTAP	NEC		EU-MM	
	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP
Austria	211	221	4.6%	211	0.0%	225	159	-29.3%	225	0.0%
Belgium	382	382	0.1%	352	-7.7%	293	293	0.0%	267	-8.8%
Denmark	274	269	-1.8%	274	0.0%	186	174	-6.5%	186	0.0%
Finland	294			294	0.0%	177	180	1.2%	176	-0.9%
France	1,841	1,841	0.0%	1,826	-0.8%	1,207	1,208	0.1%	1,213	0.5%
Germany	2,861	2,861	0.0%	2,792	-2.4%	1,443	1,444	0.0%	1,443	0.0%
Greece	300			280	-6.5%	332	332	NA	332	0.0%
Ireland	122			122	0.0%	119	110	-7.9%	117	-2.1%
Italy	1,943	1,947	0.2%	1,943	0.0%	1,127	1,127	0.0%	1,115	-1.1%
Luxembourg	14			14	0.0%	8		NA	8	0.0%
Netherlands	558			559	0.2%	344	369	7.2%	329	-4.5%
Portugal	243	243	0.0%	251	3.1%	275	275	0.0%	262	-4.6%
Spain	1,244			1,229	-1.2%	1,522	1,406	-7.6%	1,511	-0.7%
Sweden	314	314	0.0%	314	0.0%	205	205	0.0%	205	0.0%
United Kingdom	2,966			2,966	0.0%	1,627	1,627	0.0%	1,627	0.0%
<b>EU-15</b>	<b>13,569</b>			<b>13,428</b>	<b>-1.0%</b>	<b>9,090</b>		<b>NA</b>	<b>9,015</b>	<b>-0.8%</b>
Bulgaria	242			242	0.0%	233		NA	150	-35.9%
Cyprus	14	14	0.0%	19	34.0%	17	17	0.0%	18	1.6%
Czech Republic	742	0		742	0.0%	278	286	2.8%	279	0.3%
Estonia	74	74	0.0%	93	26.9%	32	32	0.9%	46	44.5%
Hungary	8			8	0.0%	203		NA	203	0.0%
Latvia	67	66	-0.8%	67	0.0%	41	41	-0.8%	41	-0.8%
Lithuania	136			136	0.0%	58	58	0.0%	53	-8.0%
Malta	10			10	0.0%	12	12	0.3%	0	NA
Poland	1,280			1,280	0.0%	811	825	1.7%	825	1.7%
Romania	484			484	0.0%	303		NA	352	16.1%
Slovakia	226			226	0.0%	98	98	0.0%	98	0.0%
Slovenia	NE			NE		58	58	0.0%	58	0.0%
<b>EU-12</b>	<b>NE</b>			<b>NE</b>		<b>2,145</b>		<b>NA</b>		<b>NA</b>

**Table A4 2: Comparison of NECD, CLRTAP and EU-MM 2005 NMVOC inventories.**

NMVOC	1990					2005				
	LRTAP	NEC		EU-MM		LRTAP	NEC		EU-MM	
	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP
Austria	285	285	0.1%	285	0.0%	154	150	-2.8%	154	0.0%
Belgium	354	359	1.3%	321	-9.4%	202	202	0.0%	117	-42.2%
Denmark	170	168	-1.3%	170	0.0%	118	119	0.2%	118	0.0%
Finland	229			229	0.0%	131	130	-1.3%	136	3.6%
France	2,761	2,761	0.0%	3,978	44.1%	1,439	1,439	0.0%	2,635	83.1%
Germany	3,612	3,612	0.0%	3,612	0.0%	1,253	1,253	0.0%	1,259	0.4%
Greece	280			308	9.7%	289	289	NA	289	0.0%
Ireland	103			103	0.0%	62	62	0.0%	58	-5.8%
Italy	1,986	2,032	2.3%	2,150	8.3%	1,233	1,233	0.0%	1,373	11.3%
Luxembourg	8			8	0.0%	6		NA	6	0.0%
Netherlands	465			466	0.1%	176	178	0.9%	170	-3.6%
Portugal	304	304	0.0%	713	134.2%	302	302	0.0%	728	141.1%
Spain	1,171			1,171	0.0%	1,102	1,053	-4.5%	1,100	-0.2%
Sweden	373	373	0.0%	373	0.0%	199	199	0.0%	199	0.0%
United Kingdom	2,386			2,384	-0.1%	977	977	0.0%	976	-0.2%
<b>EU-15</b>	<b>14,489</b>			<b>16,271</b>	<b>12.3%</b>	<b>7,645</b>		<b>NA</b>	<b>9,318</b>	<b>21.9%</b>
Bulgaria	117			117	0.0%	147		NA	103	-30.1%
Cyprus	14	14	0.0%	14	2.6%	11	11	0.0%	13	10.3%
Czech Republic	311			311	0.0%	182	185	1.7%	182	-0.1%
Estonia	70	70	0.0%	35	-50.0%	36	37	1.4%	20	-44.9%
Hungary	62			62	0.0%	177		NA	176	-0.7%
Latvia	94	96	1.7%	94	0.0%	63	64	1.1%	63	0.0%
Lithuania	89			89	0.0%	84	84	0.0%	79	-5.7%
Malta	5			5	0.0%	5	5	0.7%	0	NA
Poland	831			831	0.0%	885	881	-0.5%	881	-0.5%
Romania	339			339	0.0%	320		NA	330	3.4%
Slovakia	137			137	0.0%	79	79	0.0%	79	0.0%
Slovenia	NE			NA,NE,NO		43	43	-0.3%	43	-0.3%
<b>EU-12</b>	<b>NE</b>					<b>2,034</b>		<b>NA</b>		<b>NA</b>

**Table A4 3: Comparison of NECD, CLRTAP and EU-MM 2005 SO<sub>x</sub> inventories.**

SO <sub>x</sub>	1990					2005				
	LRTAP	NEC		EU-MM		LRTAP	NEC		EU-MM	
	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP
Austria	74	75	0.7%	74	0.0%	26	26	-0.2%	26	0.0%
Belgium	361	363	0.5%	313	-13.2%	147	147	0.0%	144	-1.5%
Denmark	178	178	0.4%	178	0.0%	22	21	-2.0%	22	0.0%
Finland	249			249	0.0%	69	68	-1.4%	68	-1.1%
France	1,333	1,333	0.0%	1,357	1.8%	465	466	0.0%	497	6.7%
Germany	5,350	5,350	0.0%	5,203	-2.7%	560	538	-4.0%	561	0.1%
Greece	487			472	-3.1%	545	545	NA	545	0.0%
Ireland	183			183	0.0%	70	70	0.0%	71	0.6%
Italy	1,795	1,795	0.0%	1,795	0.0%	450	450	0.0%	417	-7.2%
Luxembourg	14			14	0.0%	3		NA	3	0.0%
Netherlands	190			190	0.1%	62	64	2.4%	65	4.7%
Portugal	317	317	0.0%	317	0.0%	215	215	0.0%	218	1.5%
Spain	2,166			2,166	0.0%	1,254	1,225	-2.3%	1,254	0.0%
Sweden	109	109	0.0%	109	0.0%	40	40	0.0%	40	0.0%
United Kingdom	3,687			3,687	0.0%	706	706	0.0%	706	0.0%
<b>EU-15</b>	<b>16,492</b>			<b>16,308</b>	<b>-1.1%</b>	<b>4,635</b>		<b>NA</b>	<b>4,638</b>	<b>0.1%</b>
Bulgaria	1,517			1,517	0.0%	900		NA	957	6.3%
Cyprus	37	37	0.0%	45	22.9%	42	42	0.0%	42	0.0%
Czech Republic	1,876			1,876	0.0%	219	220	0.4%	219	0.0%
Estonia	273	273	0.0%	321	17.6%	77	77	0.1%	148	91.4%
Hungary	10			10	0.0%	129		NA	147	13.5%
Latvia	100	99	-0.6%	100	0.0%	4	4	4.3%	4	0.0%
Lithuania	214			214	0.0%	44	44	0.0%	42	-4.1%
Malta	NE			19	#WERT!	18	18	-0.7%	0	NA
Poland	3,210			3,210	0.0%	1,222	1,232	0.9%	1,232	0.9%
Romania	1,152			1,152	0.0%	727		NA	516	-29.0%
Slovakia	526			526	0.0%	89	89	0.0%	89	0.0%
Slovenia	NE			NA,NE,NO		42	42	0.0%	42	0.0%
<b>EU-12</b>	<b>NE</b>					<b>3,513</b>		<b>NA</b>		<b>NA</b>

**Table A4 4: Comparison of NECD, CLRTAP and EU-MM 2005 NH<sub>3</sub> inventories.**

NH <sub>3</sub>	1990					2005				
	LRTAP	NEC		EU-MM		LRTAP	NEC		EU-MM	
	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP
Austria	69	69	0%	NA		64	64	0%	NA	
Belgium	112	112	0%	NA		74	74	0%	NA	
Denmark	134	108	-19%	NA		93	79	-15%	NA	
Finland	38	0		NA		36	33	-8%	NA	
France	787	787	0%	NA		735	735	0%	NA	
Germany	738	738	0%	NA		619	619	0%	NA	
Greece	79	0		NA		NE	0	NA	NA	
Ireland	112	0		NA		113	113	0%	NA	
Italy	465	405	-13%	NA		415	415	0%	NA	
Luxembourg	8			NA		NE		NA	NA	
Netherlands	250	0		NA		135	135	0%	NA	
Portugal	65	65	0%	NA		73	73	0%	NA	
Spain	339	0		NA		401	398	-1%	NA	
Sweden	54	54	0%	NA		52	52	0%	NA	
United Kingdom	383	0		NA		318	318	0%	NA	
EU-15	3,632		NA	NA		NE		NA	NA	
Bulgaria	NE			NA		57			NA	
Cyprus	5	5	0%	NA		5	5	0%	NA	
Czech Republic	156	0		NA		68	65	-5%	NA	
Estonia	26	26	0%	NA		9	9	0%	NA	
Hungary	124			NA		80			NA	
Latvia	47	47	0%	NA		14	14	0%	NA	
Lithuania	NE	0		NA		39	39	0%	NA	
Malta	NE	0		NA		1	1	-1%	NA	
Poland	512	0		NA		326	326	0%	NA	
Romania	NE			NA		194			NA	
Slovakia	65	0		NA		27	27	0%	NA	
Slovenia	NE	0		NA		18	18	0%	NA	
EU-12	NE		NA	NA	NA	840		NA	NA	NA

**Table A4 5: Comparison of NECD, CLRTAP and EU-MM 2005 CO inventories.**

CO	1990					2005				
	LRTAP	NEC		EU-MM		LRTAP	NEC		EU-MM	
	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP	Gg	Gg	Difference to LRTAP	Gg	Difference to LRTAP
Austria	1,221	NA		1,221	0.0%	720	NA		720	0.0%
Belgium	1,379	NA		1,339	-3.0%	876	NA		682	-22.1%
Denmark	771	NA		771	0.0%	611	NA		611	0.0%
Finland	711	NA		711	0.0%	522	NA		511	-2.1%
France	11,390	NA		12,061	5.9%	5,677	NA		6,205	9.3%
Germany	12,145	NA		12,118	-0.2%	4,035	NA		4,035	0.0%
Greece	1,302	NA		1,295	-0.5%	1,075	NA		1,075	0.0%
Ireland	406	NA		406	0.0%	226	NA		221	-2.3%
Italy	7,183	NA		7,183	0.0%	3,832	NA		3,832	0.0%
Luxembourg	132	NA		132	0.0%	15	NA		15	0.0%
Netherlands	1,136	NA		1,137	0.1%	599	NA		546	-8.9%
Portugal	880	NA		944	7.3%	652	NA		718	10.1%
Spain	3,701	NA		3,701	0.0%	2,336	NA		2,329	-0.3%
Sweden	968	NA		968	0.0%	602	NA		602	0.0%
United Kingdom	8,229	NA		8,216	-0.2%	2,417	NA		2,406	-0.5%
<b>EU-15</b>	<b>51,553</b>	<b>NA</b>		<b>52,203</b>	<b>1.3%</b>	<b>24,194</b>	<b>NA</b>		<b>24,507</b>	<b>1.3%</b>
Bulgaria	790	NA		790	0.0%	740	NA		646	-12.7%
Cyprus	88	NA		71	-18.8%	41	NA		45	10.5%
Czech Republic	1,049	NA		1,049	0.0%	511	NA		536	5.0%
Estonia	313	NA		265	-15.4%	158	NA		201	27.4%
Hungary	167	NA		167	0.0%	587	NA		585	-0.3%
Latvia	382	NA		382	0.0%	337	NA		336	0.0%
Lithuania	499	NA		499	0.0%	190	NA		189	-0.7%
Malta	24	NA		24	0.0%	NE	NA		0	
Poland	7,406	NA		7,406	0.0%	3,333	NA		3,321	-0.4%
Romania	846	NA		846	0.0%	1,405	NA		1,506	7.2%
Slovakia	512	NA		512	0.0%	299	NA		299	0.0%
Slovenia	NE	NA		NA	NE	83	NA		83	0.0%
<b>EU-12</b>	<b>NE</b>	<b>NA</b>		<b>NE</b>	<b>NA</b>	<b>NE</b>	<b>NA</b>		<b>NA</b>	<b>NA</b>