



REPUBLIQUE TOGOLAISE



PREMIER RAPPORT BIENNAL ACTUALISE TOGO

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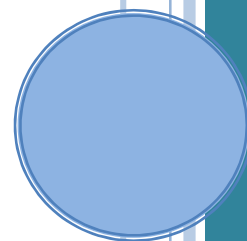
United Nations
Framework Convention on
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ANNEXES



ANNEXES

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ANNEXES

Annexe 1: Tableaux des données d'activité du Secteur Energie

Fuel	Unit	(TJ/Unit)	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
1.A.1.a.i - Electricity Generation													
Jet Kerosene	Gg	44.1	0	0	0	2	17.5	11.9	26.5	6.8	3.3	15	8
Gas/Diesel Oil	Gg	43	10.9	8.78	8.7	20.9	8.4	18.3	29.5	9.13	8.9	10	11
1.A.2.e - Food Processing, Beverages and Tobacco													
Motor Gasoline	Gg	44.3	0.9	1.02	1.04								
Gas/Diesel Oil	Gg	43	5.16	5.56	6	0	0	0.4	0	0	0	2	2
Residual Fuel Oil	Gg	40.4						0.3					
1.A.2.f - Non-Metallic Minerals													
Gas/Diesel Oil	Gg	43				29							
Residual Fuel Oil	Gg	40.4	37.48	39.75	66.37	65.8	96.6	84.9	64.5	63.1	50.1	49	28
1.A.3.a.i - International Aviation (International Bunkers)													
Jet Kerosene	Gg	44.1	78	78	78	78	78	78	78	78	78	78	78
1.A.3.b - Road Transportation													
Motor Gasoline	Gg	44.3	74.6	105.03	85.4	98.8	112.6	52.4	53.2	82.3	105.3	109	114
Gas/Diesel Oil	Gg	43	29.68	64.95	37.82	11.99	69.8	84.5	38.9	70	117.2	94.5	81
1.A.4.a - Commercial/Institutional													
Wood/Wood Waste	TJ	1	3279.06	3444.12	3609.18	3774.24	4132	4239	4330	4452	4542	4665	4803

Charcoal	Gg	29.5	18.08	18.89	19.70	20.51	22	23	23	24	24	25	26
1.A.4.b - Residential													
Other Kerosene	Gg	43.8	37.39	46.87	42.82	20.6	40.2	47.4	30.3	38.5	60.7	40	57.9
Liquefied Petroleum Gases	Gg	47.3	1	1	1	1	1	1	1	1	2	2	2
Wood/Wood Waste	TJ	1	27211	29684	29823	29744	21692	22257	22792	23326	23892	24458	25197
Charcoal	Gg	29.5	239	247	252	260	416	426	437	447	458	469	483

Fuel	Unit	(TJ/Unit)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
1.A.1.a.i - Electricity Generation													
Jet Kerosene	Gg	44.1	13	12	0.3	2.5	9.3	1	1.6	2	2.4	2.8	
Gas/Diesel Oil	Gg	43	16	11	7	6	9	1	2	2	2	2	
1.A.2.e - Food Processing, Beverages and Tobacco													
Motor Gasoline	Gg	44.3											
Gas/Diesel Oil	Gg	43	2	2	2	2	2	2	1.6	2.5	3.4	4.3	
Residual Fuel Oil	Gg	40.4											
1.A.2.f - Non-Metallic Minerals													
Gas/Diesel Oil	Gg	43											
Residual Fuel Oil	Gg	40.4	21.5	10.1	19	46	72	63	45	75	105	135	
1.A.3.a.i - International Aviation (International Bunkers)													
Jet Kerosene	Gg	44.1	78	78	78	78	78	78	78	78	78	78	
1.A.3.b - Road Transportation													

Motor Gasoline	Gg	44.3	86.8	106.7	177	250.4	197	169.1	145.4	153	160.6	168.2
Gas/Diesel Oil	Gg	43	95.5	77.4	99.3	360	309	299	252	282	312	342
1.A.4.a - Commercial/Institutional												
Wood/Wood Waste	TJ	1	4878	5001	5281.3	5674	5847	6004	6207	6365	6523	6681
Charcoal	Gg	29.5	26	27	27	30	31	32	32	33	34	35
1.A.4.b - Residential												
Other Kerosene	Gg	43.8	39.3	39.3	39.6	47.1	51	53.2	56.5	60.7	64.9	69.1
Liquefied Petroleum Gases	Gg	47.3	2.6	2.7	3.6	4.1	4.8	5.6	6.5	7.5	8.5	9.5
Wood/Wood Waste	TJ	1	25652	26265	26924	28952	29769	30618	31487	32378	33269	34160
Charcoal	Gg	29.5	492	503	516	554	570	586	603	620	637	654

Annexe 2 : Tableaux des données d'activité du Secteur Secteur PIUP

Produits	Unité	Années										
		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Clinker	T	765333,1	791266,65	196574	719167	1183973	615593	763079	943737	1427251	1437156	1506937
Ciment_WACEM	T	NO	NO	NO	48301	57457	538253	867919	507282	46164	32235	NO
Ciment_DAIMOND	T	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ciment_CIMTOGO	CPA45	22385	36960	33907	34168	75401	130787	142126	164478	159589	167859	144920
	CPJ35	425616	365573	387609	524372	495266	425577	371126	299915	428690	365844	325284
		448001	402533	421516	558540	570667	556364	513252	464393	588278	533703	470204
Peinture	Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 995	ND

Solvant	T	ND	8,5	26,8	15,3	39,1	70,2	140,9	193,9	269,7	121,5	205,3	
Blé	Farine de blé	T	0	0	0	0	0	13497	22965	11967	17656	15012	19961
	Son de blé	T	35419	35419	43069	43069	49897	63394	978459	967461	742101	739457	526322
	Total_blé	T	35419	36165	43069	47121	49897	472602	955494	912803	724445	386358	506361
Sucre	T	5200	5500	5500	5500	5514,9	5514,1	6565,7	6350,1	7402,2	8470	6718,1	
viande	T	37000	39000	42000	45000	47000	69620	69620,8	57860	68107	65001	99517	
Poissons de pêche	T	11902	15098	14291	14720	15161	15616	16085	16761	17277	17794	18310	
Lait fermenté	hl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Lait non fermenté	hl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Huile végétale	T	15400	15400	16900	17000	18600	24540	22132,6	17860	12431,8	18556,8	29648	
Bière	hl	414385	465661	313282	325101	344740	139842	269773	209296	148819	313282	325101	
Boissons gazeuse	hl	248907	285877	176011	184533	198693	50961	144641	101037	57434	176011	184533	
Palmiste	hl	17000	18046,7	19157,9	20337,4	21500	22800	24178,6	25640,6	27190,9	28835	30578,5	
Céréales	Maïs	T	290432	387562	452160	350485	493570	482056	463931	510084	537956	523650	466540
	Sorgho	T	172325	155853	151755	136558	141658	155401	141722	168983	163272	169784	154849
	Mil	T	72613	55137	48749	40694	39337	37372	41248	51726	47136	35018	42159
<i>Bière locale (1%PM*4 + 7%PS*2)</i>	hl	252554	230449,4	242987	207370,4	214056	232510,2	214910	257266,6	247502,4	251704,8	305308,4	
<i>Sodabi (7%BL)</i>	hl	17678,78	16131,458	17009,09	14515,928	14983,92	16275,714	15043,7	18008,662	17325,168	17619,336	21371,588	

Produits	Années											
	Unité	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Clinker	T	1307250	1162338	906173	1050197	1059973	1200553	1167564	911030	837250	1565646	

Ciment_WACEM		T	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ciment_DAIMOND		T	NO	NO	NO	NO	53583	306560	401329	NO	NO	NO
Ciment_CIMTOGO	CPA45		116260	119754	109868	74243	92257	87257	54908	64675	127540	80710
	CPJ35		424671	528926	593762	549991	558034	570490	568417	602620	560543	625057
	Total_WACEM		540931	648680	703629	624234	650291	657747	623325	667295	688082	705768
Peinture		Kg	ND	ND	212 670	510 624	ND	ND	256 092	ND	ND	ND
Solvant		T	383,5	378,2	ND	ND	ND	ND	ND	ND	ND	ND
Blé	Farine de blé	T	16844	21870	39051	12613	9140	58406	72467	66323	57751	56427
	Son de blé	T	523205	76822	94003	54138	50665	389200,2	398055,4	406910,6	415765,7	424620,9
	Total_blé	T	279072	54952	41042	41525	51555	447606,2	470522,4	473233,6	473516,7	481047,9
Sucre		T	5514,1	7735,5	10579,3	7109,5	4554,7	7355,35	7791,4	7931,0	8070,7	8210,4
viande		T	85838	91235	96779	102469	108305	114285	120404	126651	133010	139471
Poissons de pêche		T	18 647	19 206	19 782	20 376	20 987	21 616	22 265	22 933	23 621	24 329
Lait fermenté		hl	ND	2 527	3 934	4 973	6 585	6872,80	0,00	0,00	ND	ND
Lait non fermenté		hl	ND	144 743	126 524	146 839	172 773	73,66	2009,47	1651,23	ND	ND
Huile végétale		T	60431,1	36282	12900,1	3966,7	4229,7	3 882	15 212	9000	9000	9000
Bière		hl	404350	480038	477650	595493	567011	654061	697549	808926	647511,4	670397,5
Boissons gazeuse		hl	241671	296242	294521	379486	358950	462824	538123	532809	440499,1	458689,7
Palmiste		hl	32427,5	34388,2	36468	38673	41011	43491	46120	48909	51866	55000
Céréales	Maïs	T	538355	565486	590106	651738	638129	650831	862258	692610	833044	794661
	Sorgho	T	224623	210297	236257	237665	244674	243267	286966	285316	307579	ND
	Mil	T	42413	45456	47402	49146	48264	50363	29339	64441	17542	ND
Bière locale (1%PM*4 + 7%PS*2)		hl	331437,4	312598,2	349720,6	352389,4	361849,2	360719	413488	425218,8	437627,2224	451718,5

Sodabi (7%BL)	hl	23200,62	21881,87	24480,44	24667,26	25329,44	25250,33	28944,16	29765,316	30633,9056	31620,3
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Annexe 3: Tableaux des données d'activité du secteur AFAT

- Données sur l'élevage

ANNEES	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
VACHES LAITIERES	26 480	26 860	27 130	27 320	27 340	27580	27850	28428,3	28500	29000	30000
AUTRES BOVINS	238 320	241 740	244 170	245 880	246 060	248220	250650	255854,7	256500	261000	270000
CAPRINS	1 108 180	1 188 000	1 229 450	1 292 450	1 150 840	1077740	1126000	1076900	1090000	1250000	1500000
OVINS	1 098 050	1 149 900	1 186 000	1 274 350	1 011 683	1187112	1240000	1219300	1236000	1375000	1700000
PORCINS	297 400	305 600	312 000	278 000	291 600	302800	351000	273130	270000	285000	300000
VOLAILLES	5 700 000	6 150 000	6 500 000	6 870 000	7 000 000	7000000	7200000	7400000	8000000	8100000	9000000
EQUINS	456	500	476	480	2 152	2 158	869	476	470	480	450
ASSINS	4 200	4 000	4 150	4 200	3 760	4 348	4 475	4 526	4 500	4 470	5 003

ANNEES	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
VACHES LAITIERES	30240	30280	30250	30750	31365	32150	42877,2	43306	43739	44176
AUTRES BOVINS	272160	272520	272250	276750	282285	289350	385894,8	389754	393651	397588
CAPRINS	1570000	1582875	1583000	1657400	1739850	1826850	1111977	1178696	1249417	1324382
OVINS	1770000	1780000	1781000	1870000	1963500	2061700	2526059	2728144	2946395	3182107
PORCINS	308000	305400	301500	308450	315550	322800	944979	963879	983156	1002819
VOLAILLES	10000000	10410000	10836000	12850000	13850000	14900000	15344011	16571532	17897254	19329035
EQUINS	500	480	400	385	375	425	400	395	450	590
ASSINS	5 000	5 032	5 076	5 120	5 300	5400	5500	5600	5900	6300

• **Données sur les productions vivrières**

Productions vivrières												
CULTURES		1995/96	1996/97	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06
Maïs	Sup.	334966	411924	455285	404101	412022	369183	411581	403153	422534	479549	439481
	Prod.	282563	419895	499976	349519	493565	482052	464091	510060	537860	522561	509468
Sorgho	Sup.	191998	244410	219022	203899	176842	182168	183674	195184	177277	167488	209754
	Prod.	159467	150293	159681	136556	141792	155061	141722	168183	163320	169782	206032
Mil	Sup.	110947	104775	93355	89431	84189	79580	78580	76169	67681	49362	51358
	Prod.	74206	50098	48584	40473	39338	37373	41248	51726	47136	35018	42159
Riz paddy	Sup.	42596	65974	35174	41952	38139	32413	32110	32017	28594	32276	32711
	Prod.	52034	84423	230620	85326	81063	59306	64082	69246	62107	68519	72151
Igname	Sup.	61804	63407	68285	70227	57881	51220	54048	54066	57967	56479	56709
	Prod.	530501	611118	756538	596147	655634	563285	549072	574886	458719	620653	575262
Manioc	Sup.	101770	94140	96495	94474	114534	123941	109014	127653	133586	115891	112471
	Prod.	602210	512191	604729	589460	689001	700695	652011	727707	717345	613538	678980
Haricot	Sup.	129636	171346	174644	150694	135478	142631	148157	168076	145654	159112	187944
	Prod.	29025	44562	50541	32739	46028	41760	41338	44673	43631	48219	67359
Arachide	Sup.	71647	100750	60068	60042	61749	53896	58841	51660	65253	59086	53544
	Prod.	35086	50038	35366	27155	35372	25972	32925	35480	38248	34871	33448
Coton	Sup.	153700	134626	153700	134626	153700	134626	172885	194025	186798	198851	104600
	Prod.	102050	146449	176200	187688	133949	117445	164925	186589	164210	173655	65367

Productions vivrières											
CULTURES		2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
Maïs	Sup.	465282	468200	494994	518955,47	715722	522629	754739	749288	696588	571885
	Prod.	543343	546050	590104	651738,224	868260	650831	862258	692610	833043,693	794661
Sorgho	Sup.	215456	211779	213007	216435,52	202319	220917	345111	302123	323738,637	304185
	Prod.	224624	210298	236257	237664,754	244674	243267	286966	285316	307578,917	307578,917
Mil	Sup.	61748	72481	72048	71467,968	73776	73356	58441	50523	28081,0295	48402
	Prod.	42413	45456	47402	49145,6839	48264	50363	29339	64441	17541,8468	17541,8468
Riz paddy	Sup.	30723	32717	36492	45701,9	47403	44713	104043	92239	83823,2798	81601
	Prod.	76287	80418	85637	121294,716	110109	112232	169273	168325,692	147929,838	140952
Igname	Sup.	60246	58431	63975	69177,5	71529	71225	103475	67241	100672,128	127136
	Prod.	621056	618212	648327	704413,956	710481	727749	900833	661200	786393,931	781419
Manioc	Sup.	135720	125740	131425	143426,79	147336	152209	251589	256695	282588,938	265292,66
	Prod.	767366	773162	795373	895654,501	908755	998540	1038946,98	902860	1153109,46	1039135
Haricot	Sup.	186379	180299	193675	203747,535	210617	207172	379711,48	353266	363935,952	361525
	Prod.	52809	62942	67325	72366,9304	76190	76465	155419,215	116602	167538,446	177417
Arachide	Sup.	52062	57881	67357	67691,37	69621	68784	65421,39	60813	61119,9286	61428
	Prod.	39284	35950	42647	44528,1291	46495	50381	45003,0285	43226	40662,8901	40903
Coton	Sup.	61390	89231	55211	42438	60310	98981	122020	93739	130587	112422
	Prod.	39982	48066	31012	27896	46844	79549	80729	77850	114378	81141

• **Evolution de la production des cultures de rente au Togo de 1995-2015**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
COTON	102050	146449	176218	187688	133952	117445	168340	186589	164210	173655	65384
CAFE	8000	15000	10200	13000	17000	15200	16900	7900	5500	9300	7200

CACAO	4000	6000	5600	9000	7000	6600	10200	7500	5100	3700	4200
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COTON	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CAFE	39990	48066	31012	27907	46844	137000	80729	79560	80250	81360
CACAO	8900	9300	10200	11100	11400	11800	10843	10900	11100	12 000
COTON	32400	34400	36500	38700	41000	43500	80729	77850	114378	81141

• **Evolution de quantité d'intrants de 1995-2016**

	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
TOTAL National UF en kg	9229710	7155990	8029500	10252670	8517520	7467670	15040026,7	13830300	12702450	9561838	5243349
FERTILISANT (Fsn) en kg	8306739	6440391	7226550	9227403	7665768	6720903	13536024,1	12447270	11432205	8605654,2	4719014,1
Urée 46%	11718	11268	11097	13301	11351	7688,5	20456,1668	17259	15576	10096,3	4468,65

	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016
TOTAL National UF en kg										
FERTILISANT (Fsn) en kg	4144053	4392729	2439962,5	5733781,1	5864196,33	5980000	5521600	5515262	6900000	5520000
Urée 46%	3729647,7	3953456,1	2195966,25	5160402,99	5277776,69	5382000	4969440	4963735,8	6210000	4968000
	3822,45	6501,125	3061	10212,16	9679,1	13000	12000	11989,7	15000	12000

• **Superficies des catégories de terre, conversion de terres, volume de grumes et de bois énergie**

Catégories de terres	REF	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Terres forestières		2600724,360	2579724,360	2558724,360	2537724,360	2516724,360	2495546,00 0	2474718,660	2453687,660	2432461, 260	2411682,86 0	2389636,76 0
Forêts denses semi-	156527,798	155274,011	154020,224	152766,437	151512,651	150258,864	148994,428	147750,949	146495,312	145228,0	143987,451	142671,208

décidues										08		
Conversion Forêts denses semi-décidues en TC			-1253,787	-1253,787	-1253,787	-1253,787	-1264,436	-1243,479	-1255,638	-1267,304	-1240,557	-1316,243
FDS intactes		152395,464	151174,777	149954,090	148733,403	147512,717	146292,030	145060,975	143850,324	142627,835	141393,988	140186,182
FSCS		2097,472	2080,672	2063,871	2047,070	2030,270	2013,469	1996,525	1979,863	1963,037	1946,055	1929,432
Mangrove		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
PF		15,653	15,527	15,402	15,277	15,151	15,026	14,899	14,775	14,650	14,523	14,399
TC		2003,556	1987,507	1971,459	1955,410	1939,362	1923,313	1907,129	1891,212	1875,140	1858,918	1843,039
Variation annuelle		-16,048	-16,048	-16,048	-16,048	-16,048	-16,185	-15,917	-16,072	-16,221	-15,879	-16,848
Agglomérations		15,653	15,527	15,402	15,277	15,151	15,026	14,899	14,775	14,650	14,523	14,399
Variation annuelle		-0,125	-0,125	-0,125	-0,125	-0,125	-0,126	-0,124	-0,126	-0,127	-0,124	-0,132
Forêts claires, seches, et savanes	2424227,440	2404809,380	2385391,320	2365973,274	2346555,220	2327137,170	2307554,200	2288295,800	2268849,090	2249221,690	2230008,550	2209623,200
Conversion Forêts claires, seches, et savane en TC			-19418,060	-19418,046	-19418,054	-19418,050	-19582,970	-19258,400	-19446,710	-19627,400	-19213,140	-20385,350
FSCS intactes		2210653,003	2192945,674	2175238,345	2157531,029	2139823,705	2122116,385	2104258,675	2086696,940	2068963,485	2051065,259	2033544,797
FDS		98181,211	97394,780	96608,348	95821,918	95035,486	94249,055	93455,945	92675,980	91888,388	91093,478	90315,346
Mangrove		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
PF		242,423	240,481	238,539	236,597	234,656	232,714	230,755	228,830	226,885	224,922	223,001
TC		113453,844	112545,079	111636,314	110727,549	109818,784	108910,020	107993,537	107092,243	106182,137	105263,575	104364,400
Variation annuelle		-908,765	-908,765	-908,765	-908,765	-908,765	-916,483	-901,293	-910,106	-918,562	-899,175	-954,034
Agglomérations		1696,959	1683,367	1669,774	1656,181	1642,589	1628,996	1615,288	1601,807	1588,194	1574,455	1561,006
Variation annuelle		-13,593	-13,593	-13,593	-13,593	-13,593	-13,708	-13,481	-13,613	-13,739	-13,449	-14,270
Plantation forestiere	39918,480	39598,733	39278,986	38959,239	38639,493	38319,746	37997,283	37680,165	37359,946	37036,752	36720,380	36384,705

Conversion Plantation forestiere en TC			-319,747	-319,747	-319,747	-319,747	-322,463	-317,118	-320,219	-323,194	-316,373	-335,675
		-0,900	-0,807	-0,814	-0,821	-0,828	-0,842	-0,835	-0,850	-0,865	-0,854	-0,914
PF intactes		39124,102	38847,360	38531,098	38214,837	37898,575	37579,598	37265,995	36949,233	36629,529	36316,679	35984,453
TC		790,386	747,413	743,960	740,507	737,053	736,316	727,489	727,165	726,681	716,370	732,255
Variation annuelle		-42,973	-3,453	-3,453	-3,453	-0,738	-8,827	-0,324	-0,483	-10,312	15,885	-3,625
Agglomerations		3,992	3,960	3,928	3,896	3,864	3,832	3,800	3,768	3,736	3,704	3,672
Variation annuelle		-0,032	-0,032	-0,032	-0,032	-0,032	-0,032	-0,032	-0,032	-0,032	-0,032	-0,034
Mangroves	1050,499	1042,084	1033,670	1025,255	1016,841	1008,426	999,940	991,595	983,168	974,663	966,337	737,730
Conversion Mangroves en TC			-8,414	-8,414	-8,414	-8,414	-8,486	-8,345	-8,427	-8,505	-8,326	-228,607
Mangroves intactes		974,127	966,325	958,522	950,719	942,916	935,114	927,245	919,506	911,692	903,805	896,084
TC		38,186	37,880	37,574	37,268	36,962	36,656	36,348	36,044	35,738	35,429	35,126
Variation annuelle		-0,306	-0,306	-0,306	-0,306	-0,306	-0,308	-0,303	-0,306	-0,309	-0,303	-8,310
Agglomerations		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Prairies		38,186	37,880	37,574	37,268	36,962	36,656	36,348	36,044	35,738	35,429	35,126
Variation annuelle		-0,306	-0,306	-0,306	-0,306	-0,306	-0,308	-0,303	-0,306	-0,309	-0,303	-8,310
Terres forestières brulées		2424608,747	2405030,813	2385452,894	2365874,966	2346297,043	2326552,842	2307135,883	2287529,063	2267740,066	2248368,740	2227815,552
Prairies	36329,103	36038,107	35747,112	35456,116	35165,120	34874,124	34580,656	34292,053	34000,627	33706,494	33418,569	33113,077
Conversion Prairies en TC			-290,996	-290,996	-290,996	-290,996	-293,467	-288,603	-291,425	-294,133	-287,925	-305,492
Prairies intactes		27167,008	26949,415	26731,823	26514,231	26296,639	26079,063	25859,590	25643,806	25425,910	25205,931	24990,751
FSCS		557,652	553,185	548,718	544,251	539,785	535,318	530,813	526,383	521,910	517,395	512,975
TC		6117,821	6068,817	6019,814	5970,810	5921,806	5872,802	5823,382	5774,782	5725,706	5676,174	5627,687
Variation annuelle		-49,004	-49,004	-49,004	-49,004	-49,004	-49,420	-48,601	-49,076	-49,532	-48,487	-51,445

Agglomérations		2248,771	2230,759	2212,746	2194,734	2176,721	2158,708	2140,543	2122,678	2104,639	2086,432	2068,609
Lacs, barages etangs		237,852	235,931	234,010	232,090	230,169	228,232	226,328	224,404	222,463	220,563	218,546
Prairies brulées		18019,054	17873,556	17728,058	17582,560	17437,062	17290,328	17146,026	17000,314	16853,247	16709,284	16556,539
Terres cultivées	2954123,184	2932790,800	2954123,184	2975455,554	2996787,932	3018120,307	3039637,024	3060790,946	3082176,778	3103757,010	3124877,494	3147531,455
TC intactes		2932114,966	2910941,509	2932114,966	2953288,411	2974461,862	2995635,310	3016991,728	3037988,053	3059214,561	3080634,020	3101597,157
FSCS		1033,943	1026,477	1033,943	1041,409	1048,876	1056,342	1063,873	1071,277	1078,762	1086,315	1093,707
PF		295,412	293,279	295,412	297,546	299,679	301,812	303,964	306,079	308,218	310,376	312,488
Prairies		8271,545	8211,814	8271,545	8331,276	8391,006	8450,737	8510,984	8570,215	8630,095	8690,520	8749,657
Variation annuelle		-59,731	59,731	59,731	59,731	59,731	60,247	59,231	59,880	60,425	59,137	63,431
Agglomérations		4135,772	4105,907	4135,772	4165,638	4195,503	4225,368	4255,492	4285,107	4315,047	4345,260	4374,828
Variation annuelle		-29,865	29,865	29,865	29,865	29,865	30,123	29,615	29,940	30,212	29,569	31,716
Lacs, barages etangs		8271,545	8211,814	8271,545	8331,276	8391,006	8450,737	8510,984	8570,215	8630,095	8690,520	8749,657
Agglomérations	38890,425	38517,885	38890,425	39262,965	39635,504	40008,044	40380,584	40753,123	41104,241	41462,927	41818,316	42170,260
Agglomération intactes		36438,384	36089,333	36438,384	36787,435	37136,486	37485,537	37834,588	38183,639	38512,619	38848,690	39181,671
Variation annuelle		-349,051	349,051	349,051	349,051	349,051	349,051	349,051	328,980	336,071	332,981	329,755
FDS		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
FSCS		114,727	113,628	114,727	115,826	116,925	118,024	119,123	120,222	121,258	122,316	123,364
Prairies		1092,821	1082,353	1092,821	1103,289	1113,758	1124,226	1134,694	1145,163	1155,029	1165,108	1175,095
Variation annuelle		-10,468	10,468	10,468	10,468	10,468	10,468	10,468	9,866	10,079	9,986	9,890
TC		1108,377	1097,760	1108,377	1118,994	1129,612	1140,229	1150,847	1161,464	1171,471	1181,693	1191,822
Variation annuelle		-10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,007	10,223	10,129	10,030
Lacs, barages etangs		136,116	134,813	136,116	137,420	138,724	140,028	141,332	142,636	143,865	145,120	146,364
Autres		0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000

Conversion de terres cultivées à Agglomération			372,540	372,540	372,540	372,540	372,540	372,540	351,118	358,686	355,388	351,945
Lacs, Marres et barages	51675,393	51261,474	50847,554	50433,634	50019,715	49605,795	49188,360	48777,843	48363,313	47944,930	47535,379	47100,840
Lacs, barrages et etangs intacts		51675,393	50866,157	50455,404	50044,650	49633,897	49223,144	48808,875	48401,552	47990,162	47574,951	47168,600
FSCS		18,086	17,942	17,797	17,652	17,507	17,362	17,216	17,072	16,927	16,781	16,637
Prairies		93,016	92,271	91,526	90,781	90,035	89,290	88,539	87,800	87,054	86,301	85,564
TC		139,524	138,406	137,288	136,171	135,053	133,936	132,809	131,700	130,581	129,451	128,346
Variation annuelle		-1,118	-1,118	-1,118	-1,118	-1,118	-1,127	-1,108	-1,119	-1,130	-1,106	-1,173
Agglomérations		144,691	143,532	142,373	141,214	140,055	138,896	137,727	136,578	135,417	134,246	133,099
Conversion zones humides en TC			-413,920	-413,920	-413,920	-413,920	-417,435	-410,516	-414,531	-418,382	-409,552	-434,539
Couverture des arbres des établissements		2197,379	2179,636	2161,893	2144,150	2126,407	2108,513	2090,916	2073,146	2055,212	2037,656	2019,029
Total national		5661529,854	5661512,111	5661494,368	5661476,625	5661458,882	5661440,988	5661423,391	5661405,621	5661387,687	5661370,131	5661351,504
Volume de grumes total		65400,000	67600,000	70000,000	72000,000	73716,700	76000,000	78283,300	80566,600	82849,900	85133,200	87416,500
Volume de grumes provenant des forets denses		6540,000	6760,000	7000,000	7200,000	7371,670	7600,000	7828,330	8056,660	8284,990	8513,320	8741,650
Volume de grumes provenant des forets claires seches et savanes		6540,000	6760,000	7000,000	7200,000	7371,670	7600,000	7828,330	8056,660	8284,990	8513,320	8741,650
Volume de grumes provenant des plantations forestieres		52320,000	54080,000	56000,000	57600,000	58973,360	60800,000	62626,640	64453,280	66279,920	68106,560	69933,200
Volume total de bois energie		3042600,000	3164680,000	3286760,000	3408840,000	3530920,000	3653000,000	3775080,000	3997160,000	4019240,000	4141320,000	4263400,000
Volume de bois energie provenant des forets denses		304260,000	316468,000	328676,000	340884,000	353092,000	365300,000	377508,000	399716,000	401924,000	414132,000	426340,000

Volume de bois energie provenant des forets claires seches et savanes	2434080,000	2531744,000	2629408,000	2727072,000	2824736,000	2922400,000	3020064,000	3197728,000	3215392,000	3313056,000	3410720,000
Volume de bois energie provenant des plantations forestieres	243408,000	253174,400	262940,800	272707,200	282473,600	292240,000	302006,400	319772,800	321539,200	331305,600	341072,000
Volume de bois energie provenant des mangroves	60852,000	63293,600	65735,200	68176,800	70618,400	73060,000	75501,600	79943,200	80384,800	82826,400	85268,000
volume total de bois de feu sur écorce											
FDS	76065,000	79117,000	82169,000	85221,000	88273,000	91325,000	94377,000	99929,000	100481,000	103533,000	106585,000
FSCS	608520,000	632936,000	657352,000	681768,000	706184,000	730600,000	755016,000	799432,000	803848,000	828264,000	852680,000
PF	60852,000	63293,600	65735,200	68176,800	70618,400	73060,000	75501,600	79943,200	80384,800	82826,400	85268,000
Mangrove	15213,000	15823,400	16433,800	17044,200	17654,600	18265,000	18875,400	19985,800	20096,200	20706,600	21317,000
		39382,178	39080,452	38764,256	38448,061	38129,150	37815,613	37498,916	37179,281	36866,500	36534,340
			19691,089	19540,226	19382,128	19224,030	19064,575	18907,807	18749,458	18589,641	18433,250
Terres brulees											
FSCS	2213440,940	2195711,100	2177983,457	2160255,828	2142528,191	2124800,558	2106922,352	2089340,480	2071586,617	2053667,805	2036127,205
PF	19691,089	19551,684	19392,520	19233,355	19074,191	18913,669	18755,825	18596,419	18435,532	18278,062	18110,926
Forest land	2233132,029	2215262,784	2197375,977	2179489,183	2161602,382	2143714,226	2125678,177	2107936,898	2090022,148	2071945,867	2054238,131
TC	3056557,046	3034311,784	3054513,712	3074715,627	3094917,549	3115124,899	3135490,756	3155529,829	3175788,697	3196212,001	3216252,087
Prairie	18331,287	18186,866	18112,644	18038,422	17964,200	17889,986	17815,078	17741,514	17666,913	17591,645	17518,096

Catégories de terres	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Terres forestières	2367371,154	2389400,003	2411428,851	2433457,689	2323528,593	2236427,982	2137932,690	2043968,947	1954328,103	1868808,705
Forêts denses semi-décidues	141354,964	140038,721	138722,477	137406,234	136089,990	134773,747	133235,930	131712,986	130207,420	128719,064
Conversion Forêts denses semi-décidues en TC	-1316,244	-1316,244	-1316,244	-1316,244	-1316,244	-1537,817	-1522,943	-1505,566	-1488,357	-1471,344
FDS intactes	138904,688	137623,193	136341,698	135060,204	133778,709	132497,214	131215,720	129718,501	128235,764	126769,945
FSCS	1911,794	1894,157	1876,519	1858,881	1841,244	1823,606	1805,968	1785,361	1764,954	1744,779
Mangrove	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
PF	14,267	14,135	14,004	13,872	13,741	13,609	13,477	13,324	13,171	13,021
TC	1826,191	1809,344	1792,496	1775,648	1758,800	1741,952	1725,104	1705,420	1685,926	1666,655
Variation annuelle	-16,848	-16,848	-16,848	-16,848	-16,848	-16,848	-19,684	-19,494	-19,271	-19,051
Agglomérations	14,267	14,135	14,004	13,872	13,741	13,609	13,477	13,324	13,171	13,021
Variation annuelle	-0,132	-0,132	-0,132	-0,132	-0,132	-0,132	-0,154	-0,152	-0,151	-13,021
Forêts claires, seches, et savanes	2189237,850	2168852,500	2148467,150	2128081,800	2107696,450	2066596,369	1969982,989	1877886,284	1790095,100	1706408,154
Conversion Forêts claires, seches, et savane en TC	-20385,350	-20385,350	-20385,350	-20385,350	-20385,350	-41100,081	-96613,380	-92096,705	-87791,184	-83686,946
FSCS intactes	2014955,396	1996365,995	1977776,595	1959187,194	1940597,793	1922008,393	1884529,229	1796427,488	1712444,503	1632387,722
FDS	89489,740	88664,133	87838,526	87012,920	86187,313	85361,706	83697,153	79784,311	76054,395	72498,852
Mangrove	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
PF	220,962	218,924	216,885	214,847	212,808	210,770	206,660	196,998	187,789	179,010
TC	103410,366	102456,331	101502,297	100548,263	99594,228	98640,194	96716,710	92195,204	87885,078	83776,451
Variation annuelle	-954,034	-954,034	-954,034	-954,034	-954,034	-1923,484	-4521,506	-4310,126	-4108,627	-3916,549
Agglomérations	1546,736	1532,466	1518,197	1503,927	1489,657	1475,388	1446,617	1378,988	1314,520	1253,067
Variation annuelle	-14,270	-14,270	-14,270	-14,270	-14,270	-28,770	-67,629	-64,468	-61,454	-1253,067
Plantation forestiere	36049,030	35713,355	35377,680	35042,006	34706,331	34370,656	34034,981	33699,306	33363,632	33027,957
Conversion Plantation forestiere en TC	-335,675	-335,675	-335,675	-335,675	-335,675	-335,675	-335,675	-335,675	-335,675	-335,675
	-0,923	-0,931	-0,940	-0,949	-0,958	-0,967	-0,977	-0,986	-0,996	-1,006
PF intactes	35652,437	35320,421	34988,405	34656,389	34324,373	33992,357	33660,341	33328,325	32996,309	32664,293

TC	728,630	725,004	721,379	717,754	714,128	710,503	706,878	703,253	699,627	696,002
Variation annuelle	-3,625	-3,625	-3,625	-3,625	-3,625	-3,625	-3,625	-3,625	-3,625	-3,625
Agglomerations	3,638	3,605	3,571	3,538	3,504	3,471	3,437	3,403	3,370	3,336
Variation annuelle	-0,034	-0,034	-0,034	-0,034	-0,034	-0,034	-0,034	-0,034	-0,034	-3,336
Conversion Mangroves en TC	-8,420	-8,420	-8,420	-8,420	-8,420	-8,420	-8,420	-8,420	-8,420	-8,420
Mangroves intactes	684,097	676,289	668,481	660,673	652,866	645,058	637,250	629,442	621,634	613,826
TC	26,816	26,510	26,204	25,898	25,592	25,286	24,980	24,674	24,368	24,062
Variation annuelle	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306
Prairies	26,816	26,510	26,204	25,898	25,592	25,286	24,980	24,674	24,368	24,062
Variation annuelle	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306	-0,306
Terres forestières brûlées	2207262,365	2227815,552	2248368,740	2268921,917	2289475,105	2100967,025	2004017,970	1911585,591	1823458,732	1739436,111
Prairies	32807,585	32502,094	32196,602	31891,110	31585,619	31280,127	30974,635	30669,144	30363,652	30058,160
Conversion Prairies en TC	-305,492	-305,492	-305,492	-305,492	-305,492	-305,492	-305,492	-305,492	-305,492	-305,492
Prairies intactes	24762,320	24533,888	24305,457	24077,025	23848,594	23620,163	23391,731	23163,300	22934,868	22706,437
FSCS	508,286	503,596	498,907	494,218	489,529	484,839	480,150	475,461	470,771	466,082
PF	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
TC	5576,242	5524,797	5473,353	5421,908	5370,463	5319,018	5267,573	5216,129	5164,684	5113,239
Variation annuelle	-51,445	-51,445	-51,445	-51,445	-51,445	-51,445	-51,445	-51,445	-51,445	-5113,239
Agglomerations	2049,699	2030,790	2011,880	1992,970	1974,060	1955,150	1936,240	1917,330	1898,420	1879,510
Lacs, barages etangs	216,530	214,514	212,498	210,481	208,465	206,449	204,433	202,416	200,400	198,384
Prairies brûlées	16403,793	16251,047	16098,301	15945,555	15792,809	15640,063	15487,318	15334,572	15181,826	15029,080
Terres cultivées	3169959,297	3192390,154	3214821,010	3237251,867	3259682,723	3300719,548	3396088,129	3486604,493	3572453,682	3653808,724
TC intactes	3124082,346	3146343,101	3168606,847	3190870,594	3213134,340	3235398,087	3276129,188	3370787,273	3460629,290	3545838,902
FSCS	1101,636	1109,486	1117,337	1125,187	1133,038	1140,889	1155,252	1188,631	1220,312	1250,359
PF	314,753	316,996	319,239	321,482	323,725	325,968	330,072	339,609	348,660	357,245
Prairies	8813,088	8875,886	8938,692	9001,499	9064,305	9127,112	9242,015	9509,047	9762,493	10002,870

Variation annuelle	62,798	62,806	62,806	62,806	62,806	114,903	267,032	253,446	240,378	-10002,870
Agglomérations	4406,544	4437,943	4469,346	4500,749	4532,153	4563,556	4621,007	4754,523	4881,246	5001,435
Variation annuelle	31,399	31,403	31,403	31,403	31,403	57,452	133,516	126,723	120,189	-5001,435
Lacs, barages etangs	8813,088	8875,886	8938,692	9001,499	9064,305	9127,112	9242,015	9509,047	9762,493	10002,870
Agglomérations	42528,137	42882,999	43237,862	43592,724	43947,586	46632,784	50484,652	54654,684	59169,161	64056,534
Agglomérations intactes	39511,425	39846,738	40179,226	40511,714	40844,203	41176,691	43692,587	47301,595	51208,706	55438,545
Variation annuelle	335,312	332,488	332,488	332,488	332,488	2515,896	3609,008	3907,112	4229,839	6818,000
FSCS	124,402	125,458	126,505	127,552	128,599	129,645	137,567	148,930	161,231	174,549
Prairies	1184,984	1195,041	1205,012	1214,984	1224,956	1234,927	1310,381	1418,619	1535,797	1662,653
Variation annuelle	10,056	9,972	9,972	9,972	9,972	75,454	108,237	117,178	126,857	137,335
TC	1201,852	1212,052	1222,165	1232,279	1242,393	1252,506	1329,034	1438,813	1557,658	1686,321
Variation annuelle	10,199	10,114	10,114	10,114	10,114	76,528	109,778	118,846	128,663	-1686,321
Lacs, barages etangs	147,596	148,848	150,090	151,333	152,575	153,817	163,215	176,696	191,291	207,092
Conversion de terres cultivées à Agglomération	357,876	354,862	354,862	354,863	354,862	2685,198	3851,868	4170,032	4514,477	4887,373
Lacs, Marres et barages	46666,301	46231,762	45797,223	45362,685	44928,146	44493,607	44059,068	43624,529	43189,991	42755,452
Lacs, barrages et etangs intactes	46737,194	46305,980	45874,765	45443,550	45012,336	44581,121	44149,907	43718,692	43287,478	42856,263
FSCS	16,485	16,333	16,181	16,029	15,877	15,725	15,573	15,421	15,269	15,116
Prairies	84,782	83,999	83,217	82,435	81,653	80,871	80,088	79,306	78,524	77,742
TC	127,172	125,999	124,826	123,653	122,479	121,306	120,133	118,959	117,786	116,613
Variation annuelle	-1,173	-1,173	-1,173	-1,173	-1,173	-1,173	-1,173	-1,173	-1,173	-116,613
Agglomérations	131,882	130,666	129,449	128,232	127,016	125,799	124,582	123,365	122,149	120,932
Conversion zones humides en TC	-434,539	-434,539	-434,539	-434,539	-434,539	-434,539	-434,539	-434,539	-434,539	-434,539
Couverture des arbres des établissements	2000,402	2019,029	2037,656	2056,283	2074,910	2093,540	2112,170	2130,800	2149,430	2168,060
Total national	5661332,877	5661351,504	5661370,131	5661388,758	5661407,385	5661647,588	5661651,345	5661652,598	5661654,018	5661655,635
Volume de grumes total	89699,800	91983,100	94266,400	96549,700	98833,000	98833,000	98833,000	98833,000	98833,000	98833,000

Volume de grumes provenant des forêts denses	8969,980	9198,310	9426,640	9654,970	9883,300	9883,300	9883,300	9883,300	9883,300	9883,300
Volume de grumes provenant des plantations forestières	71759,840	73586,480	75413,120	77239,760	79066,400	79066,400	79066,400	79066,400	79066,400	79066,400
Volume total de bois énergie	4385480,000	4507560,000	4629640,000	4751720,000	4873800,000	4873800,000	4873800,000	4873800,000	4873800,000	4873800,000
Volume de bois énergie provenant des forêts denses	438548,000	450756,000	462964,000	475172,000	487380,000	487380,000	487380,000	487380,000	487380,000	487380,000
Volume de bois énergie provenant des mangroves	87709,600	90151,200	92592,800	95034,400	97476,000	97476,000	97476,000	97476,000	97476,000	97476,000
volume total de bois de feu sur écorce										
FDS	109637,000	112689,000	115741,000	118793,000	121845,000	121845,000	121845,000	121845,000	121845,000	121845,000
FSCS	877096,000	901512,000	925928,000	950344,000	974760,000	974760,000	974760,000	974760,000	974760,000	974760,000
PF	87709,600	90151,200	92592,800	95034,400	97476,000	97476,000	97476,000	97476,000	97476,000	97476,000
Mangrove	21927,400	22537,800	23148,200	23758,600	24369,000	24369,000	24369,000	24369,000	24369,000	24369,000
Terres brûlées										
FSCS	2017516,364	1998905,540	1980294,707	1961683,874	1943073,041	1924462,208	1886968,487	1798852,660	1714856,728	1634788,249
PF	17943,833	17776,740	17609,647	17442,554	17275,461	17108,368	16940,239	16769,324	16598,635	16428,162
Forest land	2035460,197	2016682,280	1997904,354	1979126,428	1960348,502	1941570,576	1903908,726	1815621,984	1731455,362	1651216,411
TC	3237708,245	3258948,143	3280190,946	3301433,749	3322676,552	3343919,355	3382726,478	3472892,976	3558464,045	3639614,247
Prairie	17435,995	17357,662	17279,292	17200,921	17122,550	17044,179	17024,598	17097,473	17168,025	17236,882

Annexe 4: Tableaux des données d'activité du secteur Déchets

• Evolution des ratios de production des déchets

Année	PIB brut (millions)	Population	PIB/Hbt	Villes secondaires	Lomé
1995	721871,21	4031000	0,179	0,25	0,3
1996	808616,64	4148456	0,195	0,25	0,3
1997	939479,62	4269581	0,220	0,25	0,3
1998	898712,12	4394782	0,204	0,25	0,3
1999	939648,01	4524206	0,208	0,25	0,3

2000	921394,25	4629000	0,199	0,25	0,3
2001	976556,54	4740000	0,206	0,25	0,3
2002	1026248,33	4854000	0,211	0,25	0,3
2003	972642,72	4970000	0,196	0,25	0,3
2004	1023210,99	5090000	0,201	0,25	0,3
2005	1113072,3	5212000	0,214	0,25	0,3
2006	1160111,82	5337088	0,217	0,25	0,3
2007	1212824,45	5465178	0,222	0,25	0,4
2008	1418528,63	5596342	0,253	0,3	0,4
2009	1493549,59	5730654	0,261	0,3	0,4
2010	1571338,05	6191155	0,254	0,3	0,4
2011	1740387,02	6339743	0,275	0,4	0,45
2012	1989490,61	6491897	0,306	0,4	0,5
2013	2064859,84	6647702	0,311	0,4	0,5
2014	2262326,5	6807247	0,332	0,4	0,5
		7070299		0,4	0,5

Ratio de production des déchets

Années	Pop Grand Lomé	Ratio
1995	984709	0,3
1996	1015826	0,3
1997	1047926	0,3
1998	1081040	0,3
1999	1115201	0,3
2000	1150442	0,3
2001	1186796	0,3
2002	1224298	0,3
2003	1262986	0,3
2004	1302897	0,3
2005	1344068	0,3
2006	1386541	0,3
2007	1430355	0,4
2008	1475555	0,4
2009	1522182	0,4
2010	1570283	0,4
2011	1613780	0,45
2012	1658481	0,5
2013	1704421	0,5
2014	1751633	0,5
2015	1800153	0,5

Ratio de production dans les villes secondaires du Pays (Population urbaine sans le Grand Lomé)

Année	Pop urbaine sans Lomé	Ratio de production (kg/hab/j)
1995	478 291	0,25
1996	490 674	0,25
1997	541 574	0,25
1998	509 960	0,25
1999	525 799	0,25
2000	533 558	0,25
2001	535 204	0,25
2002	592 702	0,25
2003	664 014	0,25
2004	706 103	0,25
2005	725 202	0,25
2006	744 807	0,25
2007	764 934	0,25
2008	785 592	0,3
2009	806800	0,3
2010	764 212	0,3
2011	809 426	0,4
2012	856 807	0,4
2013	906 448	0,4
2014	958 449	0,4
2015	1 012 912	0,4

- *Composition des déchets*

Catégories de déchets	
Food and food waste	10.4
Yard and garden waste	14
Paper and cardboard	7
Wood and wood products	4.9
*Textiles/ Nappies	5.8
Plastics and other Inerts	57.8

- *Composition des déchets de soins médicaux*

Type de déchets	Pourcentage
Déchets Ordinaires non infectieux	80 – 85%
Déchets potentiellement infectieux et déchets pathologiques	1%
Déchets chimiques et pharmaceutiques	10 – 15%
Cylindres pressurisés, thermomètres cassés, déchets radioactifs, etc. 3%	3%

- *Recensement 2010/ Système de traitement des eaux usées domestiques*

	Nombre de ménages		Total
	Urbain	Rural	
Evacuation dans la mer	4381	0	4381
Fosses septiques publiques	32598	2547	35145
Fosses septiques privées	170992	14857	185849
Latrine publiques	47995	41657	89652
Latrine privées	219163	110644	329807
Autres/ND	3618	6660	10278
Nature	91509	551532	643041
Total	570256	727897	1298153

- *Production de déchets médicaux*

Année	Déchets produits (tonnes)	Déchets incinérés (tonnes)
1995	41037,0	616,2
1996	42232,7	634,1
1997	43465,8	652,7
1998	44740,4	671,8
1999	46058,0	691,6
2000	47124,9	707,6
2001	48254,9	724,6
2002	49415,4	742,0
2003	50596,4	759,7
2004	51818,0	778,1
2005	53060,0	796,7
2006	54333,4	815,8
2007	55637,4	835,4
2008	56972,7	855,5
2009	58340,1	876,0
2010	63028,1	946,4
2011	64540,8	969,1
2012	66089,8	992,4
2013	67676,0	1016,2
2014	69300,2	1040,6
2015	71978,1	1080,8

- *Valeurs de la proportion de la population à revenu élevé au Togo*

Année	Population	Fraction pop Rurale (%)	Fraction pop Urbaine Revenu- élevé (%)	Fraction pop Urbaine Revenu-bas (%)
1995	4 031 000	63,7	7,3	29,0
1996	4 148 456	63,7	7,3	29,0
1997	4 269 581	62,8	7,4	29,8
1998	4 394 782	63,8	7,2	29,0
1999	4 524 206	63,7	7,3	29,0
2000	4 629 000	63,6	7,3	29,1
2001	4 740 000	63,6	7,3	29,1
2002	4 854 000	62,6	7,5	29,9
2003	4 970 000	61,2	7,8	31,0
2004	5 090 000	60,5	7,9	31,6

2005	5 212 000	60,3	7,9	31,8
2006	5 337 088	60,1	8,0	31,9
2007	5 465 178	59,8	8,0	32,1
2008	5 596 342	59,6	8,1	32,3
2009	5 730 654	59,4	8,1	32,5
2010	6 191 155	62,3	7,5	30,2
2011	6 339 743	61,8	7,6	30,6
2012	6 491 897	61,3	7,7	31,0
2013	6 647 702	60,7	7,9	31,4
2014	6 807 247	60,2	8,0	31,8
2015	7 070 299	60,2	8,0	31,8

NB : Ces valeurs sont obtenues sur la base de celle de l'Afrique notamment Nigéria, Kenya, Egypte et Afrique du Sud.

• *Production des déchets depuis 1950 à Lomé*

Années	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Déchets produits en Gg	19,9	20,6	21,3	22,1	22,9	23,7	24,5	25,4	26,2	27,2	28,1	29,1	30,1	31,2	32,3

Années	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Déchets produits en Gg	33,4	34,6	35,8	37,1	38,4	39,7	41,1	42,6	44,1	45,6	47,3	48,9	50,6	52,4	54,3

Années	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Déchets produits en Gg	56,2	58,1	60,2	62,3	64,5	66,8	69,1	71,6	74,1	76,7	79,4	84,9	90,9	97,3	104,1

Années	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Déchets produits en Gg	107,8	111,2	114,7	118,4	122,1	126	130	134,1	138,3	142,7	147,2	151,8	156,6	215,4	222,2

Années	2010	2011	2012	2013	2014	2015
Déchets produits en Gg	229,3	265,1	302,7	311,1	319,7	328,5

Annexe 5 : Tableaux des facteurs d'émission du secteur Energie

	FE	UNITE		FE	UNITE					
1.A.1.a.i - Electricity Generation			1.A.1.a.i - Electricity Generation			1.A.3.b - Road Transportation	EFID			
Jet Kerosene			Jet Kerosene			Fuel				
CO2	71500	kgCO2/TJ	CO2	71500	kgCO2/TJ	Motor Gasoline				
CH4	3	kgCH4/TJ	CH4	3	kgCH4/TJ	Nox	18724 EFID	0.222g/MJ	2.22E-07	Gg/TJ
N20	0.6	kgN20/TJ	N20	0.6	kgN20/TJ	COVNM	19107	63 g/kg fuel	0.063	Gg/kt
Gas/Diesel Oil			Gas/Diesel Oil			CO	19110	550 g/kg fuel	0.55	Gg/kt
CO2	74100	kgCO2/TJ	CO2	74100	kgCO2/TJ	Gas/Diesel Oil				
CH4	3	kgCH4/TJ	CH4	3	kgCH4/TJ	Nox	18939	6.62 g/kg fuel	0.00662	Gg/kt
N20	0.6	kgN20/TJ	N20	0.6	kgN20/TJ	COVNM	18945	2.39 g/kg fuel	0.00239	Gg/kt
1.A.2.e - Food Processing, Beverages and Tobacco			1.A.2.e - Food Processing, Beverages and Tobacco			CO	18948	6.04 g/kg fuel	0.00604	Gg/kt
CO2	74100	kgCO2/TJ	CO2	74100	kgCO2/TJ	1.A.4.a - Commercial/Institutional				
CH4	3	kgCH4/TJ	CH4	3	kgCH4/TJ	Wood/Wood Waste				
N20	0.6	kgN20/TJ	N20	0.6	kgN20/TJ	Nox	18215	100KG/TJ	0.0001	Gg/TJ
1.A.2.f - Non-Metallic Minerals			1.A.2.f - Non-Metallic Minerals			COVNM	18295	600KG/TJ	0.0006	Gg/TJ
Residual Fuel Oil			Residual Fuel Oil			CO	18255	5000KG/TJ	0.005	Gg/TJ
CO2	77400	kgCO2/TJ	CO2	77400	kgCO2/TJ	Charcoal				
CH4	3	kgCH4/TJ	CH4	3	kgCH4/TJ	Nox	17295	100KG/TJ	0.0001	Gg/TJ
N20	0.6	kgN20/TJ	N20	0.6	kgN20/TJ	COVNM	17375	100KG/TJ	0.0001	Gg/TJ
CO2	69300	kgCO2/TJ	CO2	69300	kgCO2/TJ	CO	17335	7000KG/TJ	0.007	Gg/TJ
CH4	33	kgCH4/TJ	CH4	33	kgCH4/TJ	1.A.4.b - Residential				
						Other Kerosene				

CH4	33	kgCH4/TJ	N2O	3.2	kgN2O/TJ	Liquefied Petroleum Gases				
N2O	3.2	kgN2O/TJ	Gas/Diesel Oil			Wood/Wood Waste				
Gas/Diesel Oil			CO2	74100	kgCO2/TJ	Nox	18599	120KG/TJ	0.00012	Gg/TJ
CO2	74100	kgCO2/TJ	CH4	3.9	kgCH4/TJ	COVNM	18296	600KG/TJ	0.0006	Gg/TJ
CH4	3.9	kgCH4/TJ	N2O	3.9	kgN2O/TJ	CO	18571	10000KG/TJ	0.01	Gg/TJ
N2O	3.9	kgN2O/TJ				Charcoal				
						Nox	17296	100KG/TJ	0.0001	Gg/TJ
						COVNM	18301	100KG/TJ	0.0001	Gg/TJ
						CO	17336	7000KG/TJ	0.007	Gg/TJ

Annexe 6: Tableaux des facteurs d'émission du secteur PIUP

CATEGORIES	UNITES	FACTEURS D'EMISSION						
		CO ₂	CH ₄	N ₂ O	NO _x	CO	COVNM	SO ₂
Industrie minérale								
Production de Clinker	T	0,52 T/T						
Production de ciment	T							0,3 kg/T
Autres								
Pain	T					8	kg/T	
Gâteau	T					1	kg/T	
Viande	T					0,3	kg/T	
Poisson	T					0,3	kg/T	
Sucre	T					10	kg/T	
Huile végétale	hl					10	g/hl	
Bière	hl					0,035	g/hl	
Boisson gazeuse	hl					6,5	g/hl	
Sodabi	hl					15	g/hl	
Bière locale	hl					0,035	g/hl	

Vin de palme	hl						0,0575	kg/hl
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Annexe 7: Tableaux des facteurs d'émission du Secteur AFAT

<i>Fermentation entérique</i>		<i>Gestion de fumier pour le méthane</i>		<i>Facteurs d'excrétion d'azote utilisés par type d'animaux</i>		<i>Facteurs d'émissions par type de gestion du fumier</i>		<i>Facteurs de missions par source au niveau des sols agricoles</i>	
Espèces animale	FE	Espèces animale	FE	Espèces animales	Facteur d'excrétion d'azote	Type de gestion de fumier	FE de N ₂ O (kg N ₂ O-N/kg N)	Type d'azote apporté au sol	FE directe (kg N ₂ O-N/kg N)
VACHES LAITIÈRES	46	VACHES LAITIÈRES	1	Bovins non laitiers	40	Bassin anaérobie	0,001	Fertilisants synthétiques	0,01
AUTRES BOVINS	31	AUTRES BOVINS	1	Bovins laitiers	60	Système liquide	0,001	Déchets animaux	0,01
CAPRINS	5	CAPRINS	0,22	Volailles	0,6	Stockage solide	0,02	Résidus agricoles	0,01
OVINS	5	OVINS	0,2	Ovins	12	Autres	0,005		
PORCINS	1	PORCINS	2	Porcins	16				
VOLAILLES		VOLAILLES	0,02	Autres (caprins, équins, asins)	40				
EQUINS	18	EQUINS	2,19						
ASSINS	10	ASSINS	1,2						

Annexe 8: Tableau « Summary »

Inventory Year: 2013												
Categories	Emissions (Gg)			Emissions CO2 Equivalents (Gg)				Emissions (Gg)				
	Net CO2 (1)(2)	CH4	N2O	HFCs	PFCs	SF6	Other halogenated gases with CO2 equivalent conversion factors (3)	Other halogenated gases without CO2 equivalent conversion factors (4)	NOx	CO	NMVOcs	SO2
Total National Emissions and Removals	19682,82668	126,406	16,899	NE	NE	NE	NE	NE	21,055	1033,91	39,015	3,096
1 - Energy	2089,272399	15,7959	0,255	NA	NA	NA	NA	NA	8,317	576,3028	35,48513	2,805
1.A - Fuel Combustion Activities	2089,272399	15,7959	0,255	NA	NA	NA	NA	NA	8,317	576,3028	35,48513	2,805
1.A.1 - Energy Industries	12,6789	0,00052	0,0001						20	NE	NE	NE
1.A.2 - Manufacturing Industries and Construction	248,86035	0,0187	0,0031						NE	NE	NE	NE
1.A.3 - Transport	1614,19077	0,27268	0,0759						1,8683	85,85328	10,31298	2,805
1.A.4 - Other Sectors	213,542379	15,504	0,1759						6,4482	490,4495	25,17215	3E-50
1.A.5 - Non-Specified	NO	NO	NO						NO	NO	NO	NO
1.B - Fugitive emissions from fuels	0	0	0	NA	NA	NA	NA	NA	NO	NO	NO	NO
1.B.1 - Solid Fuels	NO	NO	NO						NO	NO	NO	NO
1.B.2 - Oil and Natural Gas	NO	NO	NO						NO	NO	NO	NO
1.B.3 - Other emissions from Energy Production	NO	NO	NO						NO	NO	NO	NO
1.C - Carbon dioxide Transport and Storage	0	0	0	NA	NA	NA	NA	NA	NO	NO	NO	NO
1.C.1 - Transport of CO2	NO								NO	NO	NO	NO

1.C.2 - Injection and Storage	NO								NO	NO	NO	NO
1.C.3 - Other	NO								NO	NO	NO	NO
2 - Industrial Processes and Product Use	473,7356	NO	NO	NE	NE	NE	NE	NE	NO	NO	3,086	0,279
2.A - Mineral Industry	473,7356	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	0,279
2.A.1 - Cement production	473,7356								NO	NO	NO	0,279
2.A.2 - Lime production	NO								NO	NO	NO	NO
2.A.3 - Glass Production	NO								NO	NO	NO	NO
2.A.4 - Other Process Uses of Carbonates	NO								NO	NO	NO	NO
2.A.5 - Other (please specify)	NO	NO	NO						NO	NO	NO	NO
2.B - Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.B.1 - Ammonia Production	NO								NO	NO	NO	NO
2.B.2 - Nitric Acid Production			NO						NO	NO	NO	NO
2.B.3 - Adipic Acid Production			NO						NO	NO	NO	NO
2.B.4 - Caprolactam, Glyoxal and Glyoxylic Acid Production			NO						NO	NO	NO	NO
2.B.5 - Carbide Production	NO	NO							NO	NO	NO	NO
2.B.6 - Titanium Dioxide Production	NO								NO	NO	NO	NO
2.B.7 - Soda Ash Production	NO								NO	NO	NO	NO
2.B.8 - Petrochemical and Carbon Black Production	NO	NO							NO	NO	NO	NO
2.B.9 - Fluorochemical Production				NO	NO	NO	NO	NO	NO	NO	NO	NO
2.B.10 - Other (Please specify)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.C - Metal Industry	NO	NO	NO	0	0	0	0	0	NO	NO	NO	NO
2.C.1 - Iron and Steel Production	NO	NO							NO	NO	NO	NO
2.C.2 - Ferroalloys Production	NO	NO							NO	NO	NO	NO
2.C.3 - Aluminium production	NO				NO			NO	NO	NO	NO	NO

2.C.4 - Magnesium production	NO					NO		NO	NO	NO	NO	NO
2.C.5 - Lead Production	NO								NO	NO	NO	NO
2.C.6 - Zinc Production	NO								NO	NO	NO	NO
2.C.7 - Other (please specify)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.D - Non-Energy Products from Fuels and Solvent Use	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO
2.D.1 - Lubricant Use	NO								NO	NO	NO	NO
2.D.2 - Paraffin Wax Use	NO								NO	NO	NO	NO
2.D.3 - Solvent Use									NO	NO	NO	NO
2.D.4 - Other (please specify)	NO	NO	NO						NO	NO	NO	NO
2.E - Electronics Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.E.1 - Integrated Circuit or Semiconductor				NO	NO	NO	NO	NO	NO	NO	NO	NO
2.E.2 - TFT Flat Panel Display					NO	NO	NO	NO	NO	NO	NO	NO
2.E.3 - Photovoltaics					NO			NO	NO	NO	NO	NO
2.E.4 - Heat Transfer Fluid					NO			NO	NO	NO	NO	NO
2.E.5 - Other (please specify)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.F - Product Uses as Substitutes for Ozone Depleting Substances	NA	NA	NA	NE	NE	NE	NE	NE	NO	NO	NO	NO
2.F.1 - Refrigeration and Air Conditioning				NE				NE	NO	NO	NO	NO
2.F.2 - Foam Blowing Agents				NE				NE	NO	NO	NO	NO
2.F.3 - Fire Protection				NE	NE			NE	NO	NO	NO	NO
2.F.4 - Aerosols				NE				NE	NO	NO	NO	NO
2.F.5 - Solvents				NE	NE			NE	NO	NO	NO	NO
2.F.6 - Other Applications (please specify)				NE	NE			NE	NO	NO	NO	NO
2.G - Other Product Manufacture and Use	NO	NO	NO	NO	NE0	NE	NE	NE	NO	NO	NO	NO

2.G.1 - Electrical Equipment					NE	NE		NE	NO	NO	NO	NO
2.G.2 - SF6 and PFCs from Other Product Uses					NE	NE		NE	NO	NO	NO	NO
2.G.3 - N2O from Product Uses			NO						NO	NO	NO	NO
2.G.4 - Other (Please specify)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2.H - Other	NO	NO	NO	NA	NA	NA	NA	NA	0	0	3,086	0
2.H.1 - Pulp and Paper Industry	NO	NO							NO	NO	NO	NO
2.H.2 - Food and Beverages Industry	NO	NO							NO	NO	3,086	NO
2.H.3 - Other (please specify)	NO	NO	NO						NO	NO	NO	NO
3 - Agriculture, Forestry, and Other Land Use	17108,5388	105,514	16,414	NA	NA	NA	NA	NA	12,405	451,7637	0	0
3.A - Livestock	0	38,1404	0,4861	NA	NA	NA	NA	NA	0	0	0	0
3.A.1 - Enteric Fermentation		34,6356							NO	NO	NO	NO
3.A.2 - Manure Management		3,50478	0,4861						NO	NO	NO	NO
3.B - Land	17101,9637	NA	NE	NA	NA	NA	NA	NA	0	0	0	0
3.B.1 - Forest land	17098,0235								NE	NE	NE	NE
3.B.2 - Cropland	NO								NE	NE	NE	NE
3.B.3 - Grassland	3,9402								NE	NE	NE	NE
3.B.4 - Wetlands	NE		NE						NE	NE	NE	NE
3.B.5 - Settlements	NE								NE	NE	NE	NE
3.B.6 - Other Land	NE								NE	NE	NE	NE
3.C - Aggregate sources and non-CO2 emissions sources on land	12,99683	67,374	15,928	NA	NA	NA	NA	NA	12,405	451,7637	NE	NE
3.C.1 - Emissions from biomass burning		66,229	0,3534						12,405	451,7637	NE	NE
3.C.2 - Liming	NO								NO	NO	NO	NO
3.C.3 - Urea application	12,99683								NO	NO	NO	NO

3.C.4 - Direct N2O Emissions from managed soils			15,459							NO	NO	NO	NO
3.C.5 - Indirect N2O Emissions from managed soils			NE							NO	NO	NO	NO
3.C.6 - Indirect N2O Emissions from manure management			0,116							NO	NO	NO	NO
3.C.7 - Rice cultivations		1,14503								NO	NO	NO	NO
3.C.8 - Other (please specify)		NO	NO							NO	NO	NO	NO
3.D - Other	- 6,421728647	NO	NO	NA	NA	NA	NA	NA	NA	NE	NE	NE	NE
3.D.1 - Harvested Wood Products	- 6,421728647									NE	NE	NE	NE
3.D.2 - Other (please specify)	NO	NO	NO							NO	NO	NO	NO
4 - Waste	11,27987352	5,09616	0,23	NA	NA	NA	NA	NA	0,333	5,843	0,444	0,012	
4.A - Solid Waste Disposal	NO	3,11508	NO	NO	NA	NA	NA	NA	NO	NO	0,315	NO	
4.B - Biological Treatment of Solid Waste	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO	
4.C - Incineration and Open Burning of Waste	11,27987352	0,68025	0,0122	NA	NA	NA	NA	NA	0,333	5,843	0,129	0,012	
4.D - Wastewater Treatment and Discharge	NO	1,30083	0,2179	NA	NA	NA	NA	NA	NO	NO	NO	NO	
4.E - Other (please specify)	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO	
5 - Other	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO	
5.A - Indirect N2O emissions from the atmospheric deposition of nitrogen in NOx and NH3	NE	NE	NE	NA	NA	NA	NA	NA	NO	NO	NO	NO	
5.B - Other (please specify)	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO	
Memo Items (5)													
International Bunkers	NE	NE	NE	NA	NA	NA	NA	NA	NE	NE	NE	NE	
1.A.3.a.i - International Aviation (International Bunkers)	NE	NE	NE						NE	NE	NE	NE	
1.A.3.d.i - International water-borne navigation (International bunkers)	NE	NE	NE						NE	NE	NE	NE	
1.A.5.c - Multilateral Operations	NE	NE	NE	NA	NA	NA	NA	NA	NE	NE	NE	NE	

Annexe 9: Tableau « Short Summary »

Inventory Year: 2013

Categories	Emissions (Gg)			Emissions CO2 Equivalents (Gg)				Emissions (Gg)				
	Net CO2 (1)(2)	CH4	N2O	HFCs	PFCs	SF6	Other halogenated gases with CO2 equivalent conversion factors (3)	Other halogenated gases without CO2 equivalent conversion factors (4)	NOx	CO	NMVOcs	SO2
Total National Emissions and Removals	19682,82668	126,406	16,899	NE	NE	NE	NE	NE	21,055	1033,91	39,015	3,096
1 - Energy	2089,272399	15,7959	0,255	NO	NO	NO	NO	NO	8,317	576,303	35,48513	2,805
1.A - Fuel Combustion Activities	2089,272399	15,7959	0,255						28,317	576,303	35,4851	2,805
1.B - Fugitive emissions from fuels	NO	NO	NO						NE	NE	NE	NE
1.C - Carbon dioxide Transport and Storage	NO								NE	NE	NE	NE
2 - Industrial Processes and Product Use	473,7356	NO	NO	NE	NE	NE	NE	NE	NO	NO	3,086	0,279
2.A - Mineral Industry	473,7356	NO	NO						NO	NO	NO	0,279
2.B - Chemical Industry	NO	NO	NO	NE	NE	NE	NE	NE	NO	NO	NO	NO
2.C - Metal Industry	NO	NO	NO	NE	NE	NE	NE	NE	NO	NO	NO	NO
2.D - Non-Energy Products from Fuels and Solvent Use	NO	NO	NO						NO	NO	NO	NO
2.E - Electronics Industry	NO	NO	NO	NE	NE	NE	NE	NE	NO	NO	NO	NO
2.F - Product Uses as Substitutes for Ozone Depleting Substances				NE	NE				NO	NO	NO	NO
2.G - Other Product Manufacture and Use	NO	NO	NO	NE	NE	NE	NE	NE	NO	NO	NO	NO
2.H - Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	3,086	NO

3 - Agriculture, Forestry, and Other Land Use	17108,5388	105,514	16,414	NA	NA	NA	NA	NA	12,405	451,763 7	0	0
3.A - Livestock		38,1404	0,4861						NE	NE	NE	NE
3.B - Land	17101,9637		0						NE	NE	NE	NE
3.C - Aggregate sources and non-CO2 emissions sources on land	12,99683	67,374	15,928						12,405	451,763 7	NE	NE
3.D - Other	-6,421728647	NE	NE						NE	NE	NE	NE
4 - Waste	11,27987352	5,09616	0,23	NA	NA	NA	NA	NA	0,333	5,843	0,444	0,012
4.A - Solid Waste Disposal		3,11508							NO	NO	0,315	NO
4.B - Biological Treatment of Solid Waste		NO	NO						NO	NO	NO	NO
4.C - Incineration and Open Burning of Waste	11,27987352	0,68025	0,0122						0,333	5,843	0,129	0,012
4.D - Wastewater Treatment and Discharge		1,30083	0,2179						NO	NO	NO	NO
4.E - Other (please specify)	NO	NO	NO						NO	NO	NO	NO
5 - Other	NO	NO	NO	NA	NA	NA	NA	NA	NO	NO	NO	NO
5.A - Indirect N2O emissions from the atmospheric deposition of nitrogen in NOx and NH3			NE						NE	NE	NE	NE
5.B - Other (please specify)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Memo Items (5)												
International Bunkers	NE	NE	NE	NA	NA	NA	NA	NA	NE	NE	NE	NE
1.A.3.a.i - International Aviation (International Bunkers)	NE	NE	NE						NE	NE	NE	NE
1.A.3.d.i - International water-borne navigation (International bunkers)	NE	NE	NE						NE	NE	NE	NE
1.A.5.c - Multilateral Operations	NE	NE	NE	NA	NA	NA	NA	NA	NE	NE	NE	NE

Annexe 10: Tableau « Approche de référence »

Inventory Year: 2013																	
Liquid Fuels: 22 item(s)																	
										32288,986		640,321666		640,321666		640,321666	2347,846109
Fuel Types	Unit	Production	Imports	Exports	International Bunkers	Stock change	Apparent Consumption	Conversion Factor	Apparent Consumption	Carbon content	Total Carbon	Excluded Carbon	Net Carbon Emissions	Fraction of Carbon Oxidised	Actual CO2 Emissions	Actual CO2 Emissions	
							TJ/Unit	TJ	t C/TJ	t C	Gg C	Gg C	Gg C		Gg C	Gg CO2	
Primary Fuels	Crude Oil	Gg					0	42,3	0	20	0		0		0	0	
Primary Fuels	Orimulsion	Gg					0	27,5	0	21	0		0		0	0	
Primary Fuels	Natural Gas Liquids	Gg					0	44,2	0	17,5	0	0	0		0	0	
Secondary Fuels	Motor Gasoline	Gg		135		-18	153	44,3	6777,9	18,9	128,10231		128,10231	1	128,10231	469,70847	
Secondary Fuels	Aviation Gasoline	Gg					0	44,3	0	19,1	0		0		0	0	
Secondary Fuels	Jet Gasoline	Gg					0	44,3	0	19,1	0		0		0	0	
Secondary Fuels	Jet Kerosene	Gg		73		-7	80	44,1	3528	19,5	68,796		68,796	1	68,796	252,252	
Secondary Fuels	Other Kerosene	Gg		60,7			60,7	43,8	2658,66	19,6	52,109736	0	52,109736	1	52,109736	191,069032	
Secondary Fuels	Shale Oil	Gg					0	38,1	0	20	0		0		0	0	
Secondary Fuels	Gas/Diesel Oil	Gg		298		17	-8	289	43	12427	20,2	251,0254	0	251,0254	1	251,0254	920,4264667

Secondary Fuels	Residual Fuel Oil	Gg		70			-5	75	40,4	3030	21,1	63,933		63,933	1	63,933	234,421
Secondary Fuels	Liquefied Petroleum Gases	Gg		7,5				7,5	47,3	354,75	17,2	6,1017	0	6,1017	1	6,1017	22,3729
Secondary Fuels	Ethane	Gg						0	46,4	0	16,8	0	0	0		0	0
Secondary Fuels	Naphtha	Gg						0	44,5	0	20	0	0	0		0	0
Secondary Fuels	Bitumen	Gg						0	40,2	0	22	0	0	0		0	0
Secondary Fuels	Lubricants	Gg						0	40,2	0	20	0	0	0		0	0
Secondary Fuels	Petroleum Coke	Gg						0	32,5	0	26,6	0	0	0		0	0
Secondary Fuels	Refinery Feedstocks	Gg						0	43	0	20	0		0		0	0
Secondary Fuels	Refinery Gas	Gg						0	49,5	0	15,7	0	0	0		0	0
Secondary Fuels	Paraffin Waxes	Gg						0	40,2	0	20	0	0	0		0	0
Secondary Fuels	White Spirit and SBP	Gg						0	40,2	0	20	0	0	0		0	0
Secondary Fuels	Other Petroleum Products	Gg		7			-80,4	87,38	40,2	3512,676	20	70,25352		70,25352	1	70,25352	257,59624
Total																	
										32288,986		640,321666		640,321666		640,321666	2347,846109

Solid Fuels: 11 item(s)

										0		0		0		0	0
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Fuel Types	Unit	Production	Imports	Exports	International Bunkers	Stock change	Apparent Consumption	Conversion Factor	Apparent Consumption	Carbon content	Total Carbon	Excluded Carbon	Net Carbon Emissions	Fraction of Carbon Oxidised	Actual CO2 Emissions	Actual CO2 Emissions
							TJ/Unit	TJ	t C/TJ	t C	Gg C	Gg C	Gg C		Gg C	Gg CO2
Primary Fuels	Anthracite	Gg					0	26,7	0	26,8	0		0		0	0

Primary Fuels	Coking Coal	Gg						0	28,2	0	25,8	0		0		0	0
Primary Fuels	Other Bituminous Coal	Gg						0	25,8	0	25,8	0		0		0	0
Primary Fuels	Sub-Bituminous Coal	Gg						0	18,9	0	26,2	0		0		0	0
Primary Fuels	Lignite	Gg						0	11,9	0	27,6	0		0		0	0
Primary Fuels	Oil Shale / Tar Sands	Gg						0	8,9	0	29,1	0		0		0	0
Secondary Fuels	Brown Coal Briquettes	Gg						0	20,7	0	26,6	0		0		0	0
Secondary Fuels	Patent Fuel	Gg						0	20,7	0	26,6	0		0		0	0
Secondary Fuels	Coke Oven Coke / Lignite Coke	Gg						0	28,2	0	29,2	0	0	0		0	0
Secondary Fuels	Gas Coke	Gg						0	28,2	0	29,2	0		0		0	0
Secondary Fuels	Coal Tar	Gg						0	28	0	22	0	0	0		0	0
Total																	
										0		0		0		0	0

Gaseous Fuels: 1 item(s)

										0		0		0		0	0
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Fuel Types		Unit	Production	Imports	Exports	International Bunkers	Stock change	Apparent Consumption	Conversion Factor	Apparent Consumption	Carbon content	Total Carbon	Excluded Carbon	Net Carbon Emissions	Fraction of Carbon Oxidised	Actual CO2 Emissions	Actual CO2 Emissions
								TJ/Unit	TJ	t C/TJ	t C	Gg C	Gg C	Gg C		Gg C	Gg CO2
Primary Fuels	Natural Gas (Dry)	m3						0		0	15,3	0	0	0		0	0
Total																	
										0		0		0		0	0

Other Fossil Fuels: 3 item(s)

										0		0		0		0	0
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Fuel Types		Unit	Production	Imports	Exports	International Bunkers	Stock change	Apparent Consumption	Conversion Factor	Apparent Consumption	Carbon content	Total Carbon	Excluded Carbon	Net Carbon Emissions	Fraction of Carbon Oxidised	Actual CO2 Emissions	Actual CO2 Emissions
								TJ/Unit	TJ	t C/TJ	t C	Gg C	Gg C	Gg C		Gg C	Gg CO2
Primary Fuels	Municipal Wastes (nonbiomass fraction)	Gg						0	10	0	25	0		0		0	0
Primary Fuels	Industrial Wastes	Gg						0	11,6	0	39	0		0		0	0
Primary Fuels	Waste Oils	Gg						0	40,2	0	20	0		0		0	0
Total																	
										0		0		0		0	0

Peat: 1 item(s)

										0		0		0		0	0
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Fuel Types		Unit	Production	Imports	Exports	International Bunkers	Stock change	Apparent Consumption	Conversion Factor	Apparent Consumption	Carbon content	Total Carbon	Excluded Carbon	Net Carbon Emissions	Fraction of Carbon Oxidised	Actual CO2 Emissions	Actual CO2 Emissions
								TJ/Unit	TJ	t C/TJ	t C	Gg C	Gg C	Gg C		Gg C	Gg CO2
Primary Fuels	Peat	Gg						0	9,76	0	28,9	0		0		0	0
Total																	
										0		0		0		0	0

Total																	
										32288,986		640,321666		640,321666		640,321666	2347,846109

Annexe 11: Tendances des émissions de GES directs par an et par gaz

EMISSION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Gaz	(Gg CO ₂ -e)																				
Net CO ₂	12121,102	14236,95	14277,764	14896,293	15922,41	15900,538	16221	17145,163	17719,416	18058,072	18444,042	18682,315	18969,989	19519,567	21185,847	21409,879	19905,577	19528,835	19682,827	19995,222	20869,493
CH ₄ (Gg CO ₂ -e)	1033,766	1071,221	1099,592	1082,471	1041,088	1026,954	1108,122	1138,368	1139,323	1222,192	1156,442	1122,898	1175,608	1147,356	1187,586	1269,987	1344,673	1544,242	1103,907	1639,873	1656,759
N ₂ O (Gg CO ₂ -e)	2764,447	3230,687	4095,443	3297,351	3745,009	3472,789	3659,408	3818,505	3815,36	3960,993	4009,38	3858,815	3960,193	4105,525	4475,004	5194,094	4773,045	5993,765	5238,767	6102,235	5949,19
Total																					

Annexe 12: Tendances des émissions agrégées de GES directs par an et par secteur/catégorie

EMISSION (Gg CO ₂ -e)	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Secteur/Catégorie	Gg CO ₂ -e																				
Total National Emissions and Removals	15919,314	18538,858	19472,798	19276,115	20708,507	20400,28	20988,53	22102,036	22674,099	23241,257	23609,864	23664,028	24105,791	24772,448	26848,438	27873,959	26023,295	27066,842	27576,13	27737,33	28475,442
1 - Energy	1139,466	1403,735	1330,799	1261,931	1606,607	1470,553	1297,283	1386,162	1639,562	1556,61	1513,877	1438,184	1392,361	1673,787	2887,336	2694,173	2509,992	2253,951	2500,026	2746,058	2991,681
1.A - Fuel Combustion Activities	1139,466	1403,735	1330,799	1261,931	1606,607	1470,553	1297,283	1386,162	1639,562	1556,61	1513,877	1438,184	1392,361	1673,787	2887,336	2694,173	2509,992	2253,951	2500,026	2746,058	2991,681
1.A.1 - Energy Industries	34,847	28,07	27,814	73,146	82,227	96,158	178,161	50,705	38,895	79,432	60,48	92,286	73,137	23,328	27,092	58,199	6,361	11,457	12,722	13,988	15,254
1.A.2 - Manufacturing Industries and Construction	140,21	150,145	237,968	235,221	312,627	274,965	212,968	204,599	164,77	161,991	100,961	83,9	45,88	72,597	157,474	242,29	210,895	153,165	250,226	347,244	443,852
1.A.3 - Transport	578,921	788,951	639,272	597,674	828,479	686,826	541,515	733,845	959,185	897,231	869,189	830,662	834,563	1126,627	2202,582	1869,327	1749,173	1522,28	1643,434	1764,587	1885,741
1.A.4 - Other Sectors	385,487	436,569	425,745	355,891	383,274	412,603	364,639	397,014	476,713	417,956	483,246	431,336	438,781	451,235	500,187	524,357	543,563	567,049	593,644	620,239	646,834
2 - Industrial Processes and Product Use	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136

2.A - Mineral Industry	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136
2.A.1 - Cement production	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136
3 - Agriculture, Forestry, and Other Land Use	14287,879	16626,383	17938,742	17536,341	18377,817	18499,229	19180,964	20107,865	20171,067	20812,27	21184,001	21413,934	21973,062	22483,533	23264,492	24468,374	22717,94	24025,261	24412,758	24357,477	24490,921
3.A - Livestock	496,785	515,838	527,804	535,893	497,969	513,436	536,483	515,887	519,22	558,809	632,608	651,821	654,214	653,432	677,222	702,839	730,728	914,525	951,642	991,192	1033,339
3.A.1 - Enteric Fermentation	419,68	436,246	446,388	462,874	421,387	434,131	447,145	441,99	445,535	480,655	548,271	564,795	567,414	567,225	587,944	610,799	635,795	695,781	727,348	761,134	797,29
3.A.2 - Manure Management	77,105	79,592	81,416	73,019	76,582	79,305	89,337	73,897	73,684	78,154	84,337	87,026	86,8	86,207	89,278	92,04	94,934	218,744	224,293	230,058	236,049
3.B - Land	10848,06	12711,908	13134,09	13548,063	13959,096	14375,503	14793,304	15542,106	15626,083	16044,131	16453,454	16873,732	17290,02	17706,309	18122,598	18538,887	17146,058	17047,401	17101,964	17216,196	17474,257
3.B.1 - Forest land	10844,12	12712,027	13130,15	13544,123	13955,156	14371,563	14789,364	15538,166	15622,143	16040,19	16453,573	16869,792	17286,08	17702,369	18118,658	18534,947	17142,118	17043,461	17098,024	17212,256	17470,317
3.B.3 - Grassland	3,94	-0,119	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	-0,119	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94
3.C - Aggregate sources and non-CO2 emissions sources on land	2945,268	3400,942	4279,226	3454,837	3923,282	3612,902	3853,87	4052,65	4028,631	4212,286	4100,988	3891,527	4033,154	4128,255	4469,278	5231,973	4847,234	6069,583	6365,574	6156,687	5983,325
3.C.1 - Emissions from biomass burning	416,853	406,521	437,124	389,403	422,139	377,865	459,119	500,698	485,561	514,973	333,482	254,921	310,437	251,346	232,678	295,913	343,548	457,437	1500,366	454,86	401,355
3.C.3 - Urea application	8,593	8,263	8,138	9,754	8,579	4,794	7,596	10,014	6,274	10,154	1,516	2,802	4,762	2,246	7,974	7,932	13,323	13,5	12,997	16,176	13,457
3.C.4 - Direct N2O Emissions from managed soils	2497,764	2957,446	3813,039	3034,231	3471,639	3210,389	3365,594	3523,279	3519,143	3652,504	3746,086	3614,111	3697,836	3853,704	4204,996	4903,778	4466,43	5536,291	4792,215	5627,115	5509,806
3.C.6 - Indirect N2O Emissions from manure management	11,199	11,513	11,755	10,512	10,984	11,403	13,191	10,312	10,199	10,777	11,377	11,684	11,59	11,446	11,716	11,993	12,277	35,232	35,95	36,684	37,434
3.C.7 - Rice cultivations	10,859	17,199	9,169	10,936	9,942	8,45	8,371	8,346	7,454	23,878	8,527	8,009	8,529	9,513	11,914	12,357	11,656	27,123	24,046	21,852	21,272
4 - Waste	93,996	97,281	101,039	103,876	108,418	110,39	113,482	117,266	121,299	125,056	128,379	132,14	135,952	143,918	150,508	160,227	171,075	180,497	189,611	198,425	178,705
4.A - Solid Waste Disposal	26,683	28,009	29,301	30,575	31,848	33,121	34,407	35,708	37,03	38,373	39,745	41,147	42,578	44,045	48,109	51,784	55,197	59,785	65,417	70,523	75,251
4.C - Incineration and Open Burning of Waste	10,119	10,412	11,06	10,961	11,314	11,579	11,81	12,544	13,418	14,028	14,438	14,867	15,294	19,854	20,431	20,373	25,609	28,189	29,337	30,535	25,852
4.D - Wastewater Treatment and Discharge	57,194	58,861	60,678	62,339	65,257	65,69	67,265	69,013	70,851	72,655	74,196	76,126	78,08	80,019	81,967	88,07	90,269	92,523	94,857	97,367	77,601

Annexe 13: Tendances des émissions nationales de GES directs par catégorie

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CO₂ (Gg)																					
Total National Emissions and Removals	12121,102	14236,95	14277,764	14896,293	15922,41	15900,538	16221	17145,163	17719,416	18058,072	18444,042	18682,315	18969,989	19519,567	21185,847	21409,879	19905,577	19528,835	19682,827	19995,222	20869,493
1 - Energy	864,758	1103,561	1031,385	962,686	1337,182	1198,227	1021,38	1100,188	1342,53	1253,965	1202,899	1123,37	1069,171	1336,595	2505,89	2309,31	2118,12	1856,202	2089,272	2322,342	2555,412
1.A - Fuel Combustion Activities	864,758	1103,561	1031,385	962,686	1337,182	1198,227	1021,38	1100,188	1342,53	1253,965	1202,899	1123,37	1069,171	1336,595	2505,89	2309,31	2118,12	1856,202	2089,272	2322,342	2555,412
1.A.1 - Energy Industries	34,731	27,976	27,721	72,9	81,945	95,832	177,554	50,532	38,763	79,16	60,275	91,972	72,887	23,25	27,001	58,001	6,339	11,418	12,679	13,94	15,201
1.A.2 - Manufacturing Industries and Construction	139,757	149,66	237,201	234,463	311,623	274,082	212,204	203,779	163,989	161,187	100,3	83,161	44,327	72,157	156,585	241,073	209,744	152,184	248,86	345,537	442,213
1.A.3 - Transport	569,536	775,337	628,629	587,464	814,03	676,056	533,216	721,647	942,65	881,68	854,015	816,712	820,133	1105,734	2161,739	1835,3	1717,785	1495,27	1614,191	1733,112	1852,033
1.A.4 - Other Sectors	120,734	150,589	137,834	67,859	129,583	152,258	98,406	124,23	197,127	131,938	188,309	131,524	131,823	135,454	160,565	174,936	184,252	197,331	213,542	229,754	245,965
2 - Industrial Processes and Product Use	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136
2.A - Mineral Industry	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136
2.A.1 - Cement production	397,973	411,459	102,218	373,967	615,666	320,108	396,801	490,743	742,171	747,321	783,607	679,77	604,416	471,21	546,102	551,186	624,288	607,133	473,736	435,37	814,136
3 - Agriculture, Forestry, and Other Land Use	10854,42	12717,867	13139,85	13555,365	13965,144	14377,686	14798,207	15549,342	15629,491	16051,328	16451,921	16873,389	17290,456	17704,092	18125,966	18541,493	17153,301	17054,652	17108,539	17225,774	17487,714
3.B - Land	10848,06	12711,908	13134,09	13548,063	13959,096	14375,503	14793,304	15542,106	15626,083	16044,131	16453,454	16873,732	17290,02	17706,309	18122,598	18538,887	17146,058	17047,401	17101,964	17216,196	17474,257
3.B.1 - Forest land	10844,12	12712,027	13130,15	13544,123	13955,156	14371,563	14789,364	15538,166	15622,143	16040,19	16453,573	16869,792	17286,08	17702,369	18118,658	18534,947	17142,118	17043,461	17098,024	17212,256	17470,317
3.B.3 - Grassland	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	-0,119	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94	3,94
3.C - Aggregate sources and non-CO₂ emissions sources on land	8,593	8,263	8,138	9,754	8,579	4,794	7,596	10,014	6,274	10,154	1,516	2,802	4,762	2,246	7,974	7,932	13,323	13,5	12,997	16,176	13,457
3.C.3 - Urea application	8,593	8,263	8,138	9,754	8,579	4,794	7,596	10,014	6,274	10,154	1,516	2,802	4,762	2,246	7,974	7,932	13,323	13,5	12,997	16,176	13,457

4 - Waste	3,95	4,063	4,311	4,276	4,419	4,517	4,612	4,89	5,225	5,458	5,616	5,787	5,947	7,67	7,889	7,889	9,868	10,847	11,28	11,736	12,23
4.C - Incineration and Open Burning of Waste	3,95	4,063	4,311	4,276	4,419	4,517	4,612	4,89	5,225	5,458	5,616	5,787	5,947	7,67	7,889	7,889	9,868	10,847	11,28	11,736	12,23
CH₄ (Gg)																					
Total National Emissions and Removals	49,227	51,011	52,362	51,546	49,576	48,903	52,768	54,208	54,253	58,2	55,069	53,471	55,981	54,636	56,552	60,476	64,032	73,535	73,459	78,089	78,893
1 - Energy	10,803	11,701	11,753	11,786	10,543	10,726	10,967	11,276	11,588	11,861	12,223	12,392	12,723	13,168	14,296	14,615	14,973	15,352	15,796	16,239	16,683
1.A - Fuel Combustion Activities	10,803	11,701	11,753	11,786	10,543	10,726	10,967	11,276	11,588	11,861	12,223	12,392	12,723	13,168	14,296	14,615	14,973	15,352	15,796	16,239	16,683
1.A.1 - Energy Industries	0,001	0,001	0,001	0,003	0,003	0,004	0,007	0,002	0,002	0,003	0,002	0,004	0,003	0,001	0,001	0,002	0	0	0,001	0,001	0,001
1.A.2 - Manufacturing Industries and Construction	0,005	0,006	0,009	0,009	0,012	0,011	0,01	0,011	0,01	0,011	0,009	0,011	0,024	0,006	0,012	0,016	0,016	0,014	0,019	0,023	0,027
1.A.3 - Transport	0,116	0,166	0,133	0,148	0,178	0,092	0,086	0,134	0,175	0,177	0,182	0,145	0,171	0,277	0,428	0,342	0,299	0,257	0,273	0,289	0,305
1.A.4 - Other Sectors	10,68	11,528	11,61	11,625	10,349	10,619	10,864	11,129	11,401	11,669	12,029	12,233	12,525	12,883	13,855	14,254	14,657	15,081	15,504	15,927	16,35
3 - Agriculture, Forestry, and Other Land Use	36,148	36,941	38,135	37,211	36,389	35,445	38,981	40,006	39,624	43,192	39,61	37,735	39,805	37,809	38,361	41,726	44,607	53,418	52,567	56,44	56,428
3.A - Livestock	21,428	22,274	22,796	23,43	21,527	22,179	22,92	22,513	22,694	24,467	27,865	28,72	28,853	28,844	29,924	31,09	32,363	36,515	38,14	39,878	41,737
3.A.1 - Enteric Fermentation	19,985	20,774	21,257	22,042	20,066	20,673	21,293	21,047	21,216	22,888	26,108	26,895	27,02	27,011	27,997	29,086	30,276	33,132	34,636	36,244	37,966
3.A.2 - Manure Management	1,443	1,5	1,539	1,388	1,461	1,506	1,627	1,466	1,478	1,578	1,757	1,825	1,833	1,834	1,927	2,004	2,087	3,383	3,505	3,634	3,771
3.C - Aggregate sources and non-CO2 emissions sources on land	14,72	14,667	15,339	13,781	14,861	13,266	16,061	17,493	16,93	18,725	11,744	9,015	10,952	8,965	8,437	10,636	12,244	16,903	14,427	16,562	14,691
3.C.1 - Emissions from biomass burning	14,203	13,848	14,903	13,26	14,388	12,864	15,663	17,095	16,575	17,588	11,338	8,634	10,546	8,512	7,87	10,048	11,689	15,611	13,282	15,521	13,678
3.C.7 - Rice cultivations	0,517	0,819	0,437	0,521	0,473	0,402	0,399	0,397	0,355	1,137	0,406	0,381	0,406	0,453	0,567	0,588	0,555	1,292	1,145	1,041	1,013
4 - Waste	2,276	2,369	2,473	2,55	2,644	2,732	2,819	2,927	3,041	3,147	3,236	3,344	3,454	3,659	3,894	4,135	4,453	4,765	5,096	5,41	5,782
4.A - Solid Waste Disposal	1,271	1,334	1,395	1,456	1,517	1,577	1,638	1,7	1,763	1,827	1,893	1,959	2,028	2,097	2,291	2,466	2,628	2,847	3,115	3,358	3,583
4.C - Incineration and Open Burning of Waste	0,232	0,239	0,254	0,252	0,26	0,266	0,271	0,288	0,309	0,323	0,332	0,342	0,352	0,459	0,472	0,47	0,593	0,653	0,68	0,708	0,454
4.D - Wastewater Treatment and Discharge	0,773	0,796	0,824	0,842	0,868	0,889	0,91	0,938	0,969	0,997	1,012	1,043	1,074	1,103	1,131	1,199	1,231	1,265	1,301	1,343	1,745
N₂O (Gg)																					
Total National Emissions and Removals	8,918	10,422	13,211	10,637	12,081	11,203	11,805	12,318	12,308	12,777	12,933	12,448	12,775	13,244	14,435	16,755	15,397	19,335	16,899	19,685	19,191
1 - Energy	0,154	0,176	0,17	0,167	0,155	0,152	0,147	0,159	0,173	0,173	0,175	0,176	0,181	0,196	0,262	0,251	0,25	0,243	0,255	0,267	0,277
1.A - Fuel Combustion Activities	0,154	0,176	0,17	0,167	0,155	0,152	0,147	0,159	0,173	0,173	0,175	0,176	0,181	0,196	0,262	0,251	0,25	0,243	0,255	0,267	0,277
1.A.1 - Energy Industries	0	0	0	0,001	0,001	0,001	0,001	0	0	0,001	0	0,001	0,001	0	0	0	0	0	0	0	0
1.A.2 - Manufacturing Industries and Construction	0,001	0,001	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,002	0,003	0,001	0,002	0,003	0,003	0,002	0,003	0,004	0,003
1.A.3 - Transport	0,022	0,033	0,025	0,023	0,035	0,028	0,021	0,03	0,041	0,038	0,037	0,035	0,035	0,049	0,103	0,087	0,081	0,07	0,076	0,082	0,088

1.A.4 - Other Sectors	0,131	0,142	0,142	0,142	0,117	0,12	0,123	0,126	0,13	0,132	0,137	0,138	0,142	0,146	0,157	0,162	0,166	0,171	0,176	0,181	0,186
3 - Agriculture, Forestry, and Other Land Use	8,627	10,106	12,897	10,321	11,769	10,894	11,497	11,995	11,966	12,432	12,582	12,091	12,409	12,856	13,977	16,292	14,929	18,867	16,414	19,182	18,768
3.A - Livestock	0,151	0,155	0,158	0,142	0,148	0,154	0,178	0,139	0,138	0,145	0,153	0,157	0,156	0,154	0,157	0,161	0,165	0,476	0,486	0,496	0,506
3.A.2 - Manure Management	0,151	0,155	0,158	0,142	0,148	0,154	0,178	0,139	0,138	0,145	0,153	0,157	0,156	0,154	0,157	0,161	0,165	0,476	0,486	0,496	0,506
3.C - Aggregate sources and non-CO2 emissions sources on land	8,476	9,951	12,739	10,18	11,621	10,74	11,319	11,856	11,829	12,287	12,429	11,934	12,253	12,702	13,82	16,131	14,764	18,391	15,928	18,686	18,262
3.C.1 - Emissions from biomass burning	0,383	0,373	0,401	0,358	0,387	0,348	0,42	0,457	0,444	0,47	0,308	0,237	0,287	0,234	0,217	0,274	0,316	0,418	0,353	0,416	0,368
3.C.4 - Direct N2O Emissions from managed soils	8,057	9,54	12,3	9,788	11,199	10,356	10,857	11,365	11,352	11,782	12,084	11,658	11,929	12,431	13,565	15,819	14,408	17,859	15,459	18,152	17,774
3.C.6 - Indirect N2O Emissions from manure management	0,036	0,037	0,038	0,034	0,035	0,037	0,043	0,033	0,033	0,035	0,037	0,038	0,037	0,037	0,038	0,039	0,04	0,114	0,116	0,118	0,121
4 - Waste	0,136	0,14	0,144	0,149	0,156	0,156	0,16	0,164	0,168	0,173	0,177	0,181	0,185	0,192	0,196	0,211	0,218	0,224	0,23	0,236	0,145
4.C - Incineration and Open Burning of Waste	0,004	0,004	0,005	0,005	0,005	0,005	0,005	0,005	0,006	0,006	0,006	0,006	0,006	0,008	0,008	0,008	0,011	0,012	0,012	0,013	0,013
4.D - Wastewater Treatment and Discharge	0,132	0,136	0,14	0,144	0,152	0,152	0,155	0,159	0,163	0,167	0,171	0,175	0,179	0,183	0,188	0,203	0,208	0,213	0,218	0,223	0,132

Annexe 14: Emissions par GES indirects par an et par gaz

EMISSION	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
NOx (Gg)	17,982	18,229	19,25	17,421	18,386	17,185	19,583	21,231	21,181	22,091	16,366	14,049	15,826	14,284	15,826	17,669	19,349	22,874	41,054	23,554	22,25
CO (Gg)	867,47	899,778	903,217	881,376	881,614	805,176	908,835	982,214	985,97	1031,283	832,263	732,099	817,417	798,495	849,389	906,469	960,829	1094,895	1033,909	1127,608	1083,067
NMVOcs (Gg)	24,267	27,891	23,592	27,729	24,608	23,94	27,323	29,392	30,223	28,757	30,36	27,6	27,915	33,018	39,818	37,023	38,46	37,749	39,015	40,262	41,566
SO ₂ (Gg)	0,926	1,351	0,064	0,95	1,552	1,076	0,836	1,281	1,882	1,764	1,733	1,586	1,557	2,082	4,272	3,599	3,396	2,932	3,096	3,314	3,779

Annexe 15 : Tendances des émissions de GES indirects par catégorie

Categories/Année	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
NOx																					
Categories/Année	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Total National Emissions and Removals	17,982	18,229	19,250	17,421	18,386	17,185	19,583	21,231	21,181	22,091	16,366	14,049	15,826	14,284	15,826	17,669	19,349	22,874	41,054	23,554	22,250
1 - Energy	4,549	5,122	5,160	4,855	4,772	4,979	4,783	5,098	5,520	5,485	5,543	5,727	5,729	6,020	8,150	7,977	8,079	7,942	28,317	8,691	9,066
1.A - Fuel Combustion Activities	4,549	5,122	5,160	4,855	4,772	4,979	4,783	5,098	5,520	5,485	5,543	5,727	5,729	6,020	8,150	7,977	8,079	7,942	28,317	8,691	9,066
1.A.3 - Transport	0,197	0,431	0,419	0,080	0,463	0,560	0,258	0,464	0,777	0,627	0,537	0,633	0,513	0,659	2,386	2,048	1,981	1,670	1,868	2,067	2,266
1.A.4 - Other Sectors	4,352	4,691	4,741	4,774	4,308	4,419	4,525	4,634	4,743	4,859	5,005	5,094	5,215	5,361	5,764	5,930	6,098	6,272	6,448	6,624	6,800
3 - Agriculture, Forestry, and Other Land Use	13,320	12,990	13,966	12,444	13,488	12,076	14,667	15,992	15,510	16,447	10,660	8,155	9,925	8,040	7,445	9,461	10,980	14,612	12,405	14,530	12,824
3.C - Aggregate sources and non-CO2 emissions sources on land	13,320	12,990	13,966	12,444	13,488	12,076	14,667	15,992	15,510	16,447	10,660	8,155	9,925	8,040	7,445	9,461	10,980	14,612	12,405	14,530	12,824
3.C.1 - Emissions from biomass burning	13,320	12,990	13,966	12,444	13,488	12,076	14,667	15,992	15,510	16,447	10,660	8,155	9,925	8,040	7,445	9,461	10,980	14,612	12,405	14,530	12,824
4 - Waste	0,114	0,117	0,124	0,123	0,127	0,130	0,133	0,141	0,151	0,158	0,163	0,167	0,172	0,224	0,231	0,230	0,290	0,320	0,333	0,333	0,361
4.A - Solid Waste Disposal	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
4.C - Incineration and Open Burning of Waste	0,114	0,117	0,124	0,123	0,127	0,130	0,133	0,141	0,151	0,158	0,163	0,167	0,172	0,224	0,231	0,230	0,290	0,320	0,333	0,333	0,361
CO																					
Total National Emissions and Removals	867,470	899,778	903,217	881,376	881,614	805,176	908,835	982,214	985,970	1031,283	832,263	732,099	817,417	798,495	849,389	906,469	960,829	1094,895	1033,909	1127,608	1083,067
1 - Energy	382,802	427,126	394,497	428,650	390,379	365,814	374,055	398,469	419,786	430,437	444,283	436,194	456,252	505,726	578,380	561,248	558,628	558,525	576,303	594,081	611,859

1.A - Fuel Combustion Activities	382,802	427,126	394,497	428,650	390,379	365,814	374,055	398,469	419,786	430,437	444,283	436,194	456,252	505,726	578,380	561,248	558,628	558,525	576,303	594,081	611,859
1.A.3 - Transport	41,209	58,159	22,115	54,412	62,352	29,330	29,495	45,688	58,623	60,521	63,189	48,317	59,152	97,950	139,894	110,216	94,811	81,492	85,853	90,214	94,576
1.A.4 - Other Sectors	341,593	368,967	372,383	374,237	328,027	336,484	344,560	352,782	361,163	369,916	381,094	387,877	397,100	407,776	438,486	451,032	463,817	477,033	490,450	503,867	517,284
3 - Agriculture, Forestry, and Other Land Use	482,673	470,599	506,537	450,564	489,005	437,078	532,452	581,270	563,534	598,074	385,128	292,969	358,142	288,829	266,950	341,182	397,108	530,760	451,764	527,684	464,874
3.C - Aggregate sources and non-CO2 emissions sources on land	482,673	470,599	506,537	450,564	489,005	437,078	532,452	581,270	563,534	598,074	385,128	292,969	358,142	288,829	266,950	341,182	397,108	530,760	451,764	527,684	464,874
3.C.1 - Emissions from biomass burning	482,673	470,599	506,537	450,564	489,005	437,078	532,452	581,270	563,534	598,074	385,128	292,969	358,142	288,829	266,950	341,182	397,108	530,760	451,764	527,684	464,874
4 - Waste	1,995	2,053	2,183	2,162	2,230	2,284	2,328	2,475	2,650	2,772	2,853	2,937	3,023	3,941	4,058	4,039	5,093	5,611	5,843	5,843	6,334
4.A - Solid Waste Disposal	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
4.C - Incineration and Open Burning of Waste	1,995	2,053	2,183	2,162	2,230	2,284	2,328	2,475	2,650	2,772	2,853	2,937	3,023	3,941	4,058	4,039	5,093	5,611	5,843	5,843	6,334
COVNM																					
Total National Emissions and Removals	24,267	27,891	23,592	27,729	24,608	23,940	27,323	29,392	30,223	28,757	30,360	27,600	27,915	33,018	39,818	37,023	38,460	37,749	39,015	40,262	41,566
1 - Energy	23,823	27,433	23,084	27,192	24,047	20,725	21,075	23,408	25,396	26,024	26,877	25,543	27,230	32,313	39,134	36,292	35,164	34,252	35,485	36,718	37,951
1.A - Fuel Combustion Activities	23,823	27,433	23,084	27,192	24,047	20,725	21,075	23,408	25,396	26,024	26,877	25,543	27,230	32,313	39,134	36,292	35,164	34,252	35,485	36,718	37,951
1.A.3 - Transport	4,771	6,772	2,224	6,253	7,261	3,503	3,445	5,352	6,914	7,093	7,376	5,697	6,907	11,388	16,636	13,150	11,368	9,762	10,313	10,863	11,414
1.A.4 - Other Sectors	19,052	20,661	20,861	20,938	16,787	17,222	17,630	18,056	18,482	18,931	19,502	19,846	20,323	20,925	22,498	23,143	23,796	24,490	25,172	25,855	26,537
2 - Industrial Processes and Product Use	0,291	0,300	0,343	0,370	0,388	3,037	6,066	5,793	4,628	2,527	3,271	1,838	0,459	0,400	0,370	0,409	2,915	3,066	3,086	3,091	3,142
2.H - Other	0,291	0,300	0,343	0,370	0,388	3,037	6,066	5,793	4,628	2,527	3,271	1,838	0,459	0,400	0,370	0,409	2,915	3,066	3,086	3,091	3,142
2.H.2 - Food and Beverages Industry	0,291	0,300	0,343	0,370	0,388	3,037	6,066	5,793	4,628	2,527	3,271	1,838	0,459	0,400	0,370	0,409	2,915	3,066	3,086	3,091	3,142
4 - Waste	0,153	0,158	0,164	0,168	0,173	0,178	0,183	0,191	0,198	0,206	0,212	0,219	0,226	0,305	0,314	0,322	0,381	0,431	0,444	0,453	0,473
4.A - Solid Waste Disposal	0,109	0,113	0,116	0,120	0,124	0,128	0,132	0,136	0,140	0,145	0,149	0,154	0,159	0,218	0,225	0,233	0,269	0,307	0,315	0,324	0,333
4.C - Incineration and Open Burning of Waste	0,044	0,045	0,048	0,048	0,049	0,050	0,051	0,055	0,058	0,061	0,063	0,065	0,067	0,087	0,089	0,089	0,112	0,124	0,129	0,129	0,140

SO2																					
Total National Emissions and Removals	0,926	1,351	0,064	0,950	1,552	1,076	0,836	1,281	1,882	1,764	1,733	1,586	1,557	2,082	4,272	3,599	3,396	2,932	3,096	3,314	3,779
1 - Energy	0,680	1,105	0,000	0,726	1,185	0,884	0,598	0,988	1,440	1,319	1,266	1,180	1,195	1,797	3,943	3,266	3,019	2,563	2,805	3,046	3,287
1.A - Fuel Combustion Activities	0,680	1,105	0,000	0,726	1,185	0,884	0,598	0,988	1,440	1,319	1,266	1,180	1,195	1,797	3,943	3,266	3,019	2,563	2,805	3,046	3,287
1.A.3 - Transport	0,680	1,105	0,000	0,726	1,185	0,884	0,598	0,988	1,440	1,319	1,266	1,180	1,195	1,797	3,943	3,266	3,019	2,563	2,805	3,046	3,287
1.A.4 - Other Sectors	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
2 - Industrial Processes and Product Use	0,234	0,242	0,060	0,220	0,362	0,188	0,234	0,289	0,437	0,440	0,461	0,400	0,356	0,277	0,321	0,324	0,367	0,357	0,279	0,256	0,479
2.A - Mineral Industry	0,234	0,242	0,060	0,220	0,362	0,188	0,234	0,289	0,437	0,440	0,461	0,400	0,356	0,277	0,321	0,324	0,367	0,357	0,279	0,256	0,479
2.A.1 - Cement production	0,234	0,242	0,060	0,220	0,362	0,188	0,234	0,289	0,437	0,440	0,461	0,400	0,356	0,277	0,321	0,324	0,367	0,357	0,279	0,256	0,479
4 - Waste	0,012	0,004	0,004	0,004	0,004	0,004	0,005	0,005	0,005	0,005	0,006	0,006	0,006	0,008	0,008	0,008	0,010	0,011	0,012	0,012	0,012
4.A - Solid Waste Disposal	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
4.C - Incineration and Open Burning of Waste	0,012	0,004	0,004	0,004	0,004	0,004	0,005	0,005	0,005	0,005	0,006	0,006	0,006	0,008	0,008	0,008	0,010	0,011	0,012	0,012	0,012