

## ESD savings calculation

Savings presented by sector: transport rows 10-79; households: rows 82-152; services rows 155- 225; industry: row 228

For each sector, 3 parts: 1) savings calculation 2) indicators calculation 3) data used for indicators with link to each sectoral data file

Savings are > 0; savings in year t calculated in reference to 2007; cells with savings coloured in green

Total by sector calculated by excluding end-uses without savings

For each sector, two totals are calculated: one with minimum indicators, one with preferred indicators

For industry you need to complete the share of consumption under ETS in rows 255 to 265

For transport, to calculate savings with alternative indicators change the link

Positive savings

### TRANSPORT

CODE ESD	Energy Savings (2007 as a reference)	Units	2008	2009	2010	2011	2012
M5	Road vehicles	ktoe	1469,14044	2264,36749	1871,88757	2300,85556	3242,51552
M6	Rail transport	ktoe	-138	-189	-199	-120	-167
M7	Domestic water transport	ktoe	-13	-22	0	-11	-26
	<b>Total 1 energy savings (Minimum)</b>	ktoe	1469,14044	2264,36749	1871,88757	2300,85556	3242,51552
		GWh	17083,0284	26329,8545	21766,1345	26754,1345	37703,6688
P8	Cars (based on passenger km)	ktoe	-93	-65	-7	418,343643	682,437962
A1 FOR P8	Cars (based on l/100 km)	ktoe	5,01381346	103,034373	147,669215	663,409628	884,570978
P9	Trucks only (based on ton-km)	ktoe	586,001901	367,994435	418,29906	364,312909	493,113023
A2 FOR P9	Trucks and light vehicles (based on vehicle)	ktoe	1100,59705	1806,46388	1409,80584	1279,90352	1915,36736
P10	Passenger rail transport	ktoe	-82	-122	-132	-77	-109
P11	Rail transport of goods	ktoe	-346	-473	-498	-300	-418
P12	Modal shift for passenger transport	ktoe	-72	-81	-85	-31	-27
P13	Modal shift for freight transport	ktoe	18,0516978	-52	-184	-68	-49
	<b>Total 2 with preferred indicators</b>	ktoe	604,053599	367,994435	418,29906	782,656552	1175,55098
		GWh	7023,87906	4279,00505	4863,94256	9100,65758	13669,1975

CODE ESD	Indicators	Units	2007	2008	2009	2010	2011	2012
M5	Energy consumption of road vehicles per car equivalent	toe/eq car	0,905	0,870	0,851	0,861	0,851	0,830
M6	Energy consumption of rail transport per tkbr	goe/tkbr	4,6	5,1	5,4	5,5	5,1	5,3
M7	Energy consumption of domestic water transport	goe/tkm	42	44	45	42	44	46
P8	Energy consumption of car per passenger km	goe/pkm	28	28	28	28	27	27
A1 FOR P8	Specific energy consumption of car (l/100 km)	l/100km	7,1	7,1	7,1	7,1	6,9	6,9
P9	Energy consumption of trucks and light vehicles per ton-km	goe/tkm	61	60	66	65	65	67
A2 FOR P9	Energy consumption of trucks and light vehicles per vehicle	toe/veh	2,23	2,06	1,95	2,01	2,03	1,94
P10	Energy consumption of passenger rail transport	goe/pkm	7,8	8,8	9,2	9,3	8,7	9,0
P11	Energy consumption of rail transport of goods per ton-km	goe/tkbr	11,5	12,9	13,6	13,7	12,7	13,3
P12	Share of public transport in total passenger transport	%	14,9%	14,4%	14,4%	14,3%	14,7%	14,7%
P13	Share of rail, water transport in total freight transport	%	18,0%	18,1%	17,5%	16,2%	17,4%	17,5%

Data requested	Source	Units	2007	2008	2009	2010	2011	2012
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Total consumption of road transport	SOES	ktoe	37806	36651	36090	36767	36680	35956
Total consumption of cars	SOES	ktoe	22621	22379	22432	22595	22221	22022
Gasoline consumption of motorcycles	SOES	ktoe	483	511	540	540	540	540
Total consumption of buses	SOES	ktoe	763	811	823	845	858	866
Total consumption of trucks & light vehicles	SOES	ktoe	13939	12950	12295	12787	13061	12527
Total consumption of rail transport	SOES	ktoe	1233	1281	1228	1214	1207	1232
Total consumption of inland waterways transport	SOES	ktoe	319	330	336	341	345	353
Stock of cars	CCFA	k	30550	30775	30950	31175	31425	31575
Stock of cars (gasoline)	CCFA	k	15018	14438	13845	13364	12910	12454
Stock of cars (diesel)	CCFA	k	15533	16338	17106	17812	18515	19121
Stock of buses	MEDDE	k	86	87	87	88	90	91
Stock of trucks and light vehicles	MEDDE	k	6246	6296	6319	6361	6426	6471
Stock of motorcycles	MEDDE	k	2990	3245	3500	3573	3649	3700
Car traffic	MEDDE	Mpkm	811976	799988	802887	810793	812656	814994
Road traffic for public modes in pass-km	MEDDE	Mpkm	47020	48457	48805	49879	51096	51618
Rail passenger traffic in passenger-km (incl metro, tram)	SNCF	Mpkm	95286	86600	85914	85897	89002	89100
Road goods traffic	MEDDE	Mtkm	229193	217545	186982	196349	200455	188280
Rail goods traffic	MEDDE	Mtkm	42612	40631	32123	29965	34183	32200
Inland waterways goods traffic	MEDDE	Mtkm	7546	7504	7423	8060	7907	7738
Average distance driven per car per year	MEDDE	km	12968	12749	12758	12769	12692	12666

Number of road vehicles expressed in car equivalent		M	41,8	42,1	42,4	42,7	43,1	43,3
Traffic in Gross ton-kilometer for train		Mtkbr	268516	248798	226362	220937	236760	231970
Unit consumption of public transport for passenger (goe/pkm)		goe/pkm	11	12	12	12	12	12
Unit consumption of public transport for goods (goe/tkm)		goe/tkm	16	18	20	20	19	20
Specific consumption of cars (litre per 100km)		l/100km	7,14	7,14	7,11	7,10	6,95	6,88

### Coefficient

Weighted average coefficient gasoline and diese: from toe to 1000 l		1	0,851	0,853	0,855	0,855	0,857	0,858
Coefficient of conversion of one truck in equivalent car		1	12,5	12,5	12,5	12,5	12,5	12,5
Coefficient of conversion of one light vehicles in equivalent car		1	1,6	1,6	1,6	1,6	1,6	1,6
coefficient of conversion of one bus in terms of an equivalent car		1	11	11	11	11	11	11
coefficient of conversion of one mototcycle in equivalent car		1	0,15	0,15	0,15	0,15	0,15	0,15
gross ton-kilometer for passenger train		1	1,70	1,70	1,70	1,70	1,70	1,70
gross ton-kilometer for goods train		1	2,50	2,50	2,50	2,50	2,50	2,50

### HOUSEHOLDS

Code ESD	Energy Savings	Units	2008	2009	2010	2011	2012
M1	Non electric uses	ktoe	2605,98072	3897,52424	5836,7987	3746,86299	6404,5514
M2	Electrical uses	ktoe	-383	-476	-798	98,4887664	-446
	<b>Total 1 with minimum indicators</b>	ktoe	2605,98072	3897,52424	5836,7987	3845,35176	6404,5514
		GWh	30302,1014	45320,0493	67869,7523	44713,3926	74471,5279
P1	Space heating	ktoe	2150,85465	3164,25631	4692,01959	3801,43306	5810,7686
P2	Space cooling	ktoe	0	0	0	0	0
P3	Water heating	ktoe	50,7122576	60,1215826	128,43451	241,374395	319,275632

P4	Electrical appliances				37,4488152	75,0398969	113,573227	155,793653	201,507067
	Refrigerators		ktoe		18,1960828	36,3765746	55,7737333	76,9996001	99,2911067
	Freezers		ktoe		9,3756753	19,4527949	29,3270038	38,3962523	48,5323561
	Washing machine		ktoe		6,79940716	13,5436862	20,0370619	28,8893924	39,0178595
	Dish washers		ktoe		2,22432999	4,26261368	6,35181797	8,61322549	10,9349415
	TV		ktoe		0	0	0	0	0
	Dryers		ktoe		0,85332002	1,40422745	2,08361039	2,89518289	3,73080278
P5	Lighting		ktoe		15,608017	34,0450726	155,299414	178,839353	249,95891
	<b>Total 2 with preferred indicators</b>		ktoe		2254,62374	3333,46286	5089,32674	4377,44046	6581,51021
			GWh		26216,5551	38761,1961	59178,2179	50900,4705	76529,1884

Code ESD	Indicators	Units	2007	2008	2009	2010	2011	2012
M1	Non electric consumption per dwelling (climate adjusted)	toe/dw	1,2	1,1	1,1	1,0	1,1	1,0
M2	Electricity consumption per dwelling	kWh/dw	5389,2	5553,9	5590,9	5723,7	5348,3	5572,9
P1	Space heating consumption per m2 (climate adjusted)	koe/m2	13,1	12,3	11,9	11,3	11,7	10,9
P2	Space cooling consumption per m2 (climate adjusted)	koe/m2						
P3	Unit consumption for water heating per inhabitant	toe/inhab	0,1	0,1	0,1	0,1	0,1	0,1
P4	Specific electricity consumption per appliance							
	Refrigerators	kWh/year	411,8	404,5	397,4	389,8	381,7	373,4
	Freezers	kWh/year	440,4	433,9	427,3	420,3	413,2	405,7
	Washing machine	kWh/year	303,2	300,1	297,1	294,2	290,4	286,1
	Dish washers	kWh/year	209,6	207,6	205,9	204,2	202,6	201,0
	TV	kWh/year	197,4	197,4	197,4	197,4	197,4	197,4
	Dryers	kWh/year	490,7	489,4	488,7	487,8	486,8	485,9
P5	Electricity consumption for lighting per dwelling	kWh/dw	420,4	413,7	405,9	355,3	346,0	317,4

Data	Source	Unit	2007	2008	2009	2010	2011	2012
Population	INSEE	k	61795	62135	62466	62765	63089	63409
Final consumption of residential	CEREN	ktoe	41337	42283	42334	45730	37770	41130
Electricity consumption of residential	CEREN	ktoe	12335	12915	13186	13650	12860	13530
Final consumption of residential for space heating	CEREN	ktoe	28381	29144	29159	32537	24700	27977
Electricity consumption of residential for space heating	CEREN	ktoe	3431	3724	3879	4257	3440	3947
Final consumption of households for water heating	CEREN	ktoe	4150	4122	4134	4086	3995	3939
Final consumption of residential for cooking	CEREN	ktoe	2454	2467	2453	2468	2426	2451
Electricity consumption for lighting	CEREN	ktoe	962	962	957	847	832	771
Electricity consumption for space cooling	MEEDDL	ktoe						
Stock of dwellings (permanently occupied)	CEREN	k	26615	27039	27424	27730	27959	28231
Floor area of dwellings (average)	CEREN	m2	91,6	91,7	91,6	91,6	93,1	93
Stock of refrigerator	INSEE/GIFAM	k	28365	28854	29344	29497	29757	30012
Stock of freezers	INSEE/GIFAM	k	16265	16734	17209	16955	16394	16247
Stock of washing machine	INSEE/GIFAM	k	24620	24960	25435	25702	26159	26522
Stock of dish washers	INSEE/GIFAM	k	12545	12945	13233	13761	14294	14729
Stock of TV	INSEE/GIFAM	k	40097	40818	41232	41751	42181	42569
Stock of dryers	INSEE/GIFAM	k	7651	7877	8180	8397	8711	8980

Heating Degree-days	SOeS	degree	1793	1939	1977	2296	1645	1972
Heating Degree-days of reference	SOeS	degree	2026	2026	2026	2026	2026	2026
Cooling Degree days								
Cooling Degree days of reference								
Specific consumption of refrigerators	modeling	kWh/year	412	404	397	390	382	373
Specific consumption of freezers	modeling	kWh/year	440	434	427	420	413	406
Specific consumption of washing machines	modeling	kWh/year	303	300	297	294	290	286
Specific consumption of dish washers	modeling	kWh/year	210	208	206	204	203	201
Specific consumption of TV	modeling	kWh/year	197	197	197	197	197	197
Specific consumption of dryers	modeling	kWh/year	491	489	489	488	487	486

Non electric consumption of residential (climate adjusted)	CEREN	ktoe	32771	30687	29870	28308	30679	28356
Energy consumption of space heating (climate adjusted)	CEREN	ktoe	32070	30451	29881	28711	30421	28744
Energy consumption of space cooling (climate adjusted)	calculation	ktoe						

Energy consumption of residential (climate corrected)	SOeS					45400	45900	46000
Electricity consumption of residential (climate corrected)	SOeS					13900	13200	13700

## SERVICES

CODE ESD	Savings	Units	2008	2009	2010	2011	2012
M3	Non electric consumption	ktoe	355,550059	682,514507	-382	2175,13365	
M4	Consumption of electricity	ktoe	-255	-497	-825	-369	
	<b>Total 1 with minimum indicators</b>	ktoe	355,550059	682,514507	0	2175,13365	
		GWh	4134,30301	7936,2152	0	25292,2517	
P6	<b>Non electricity uses by sub sector</b>						
	Hotel, restaurants	ktoe	68,9105809	68,4460974	176,053967	16,0643023	
	Health and social action	ktoe	113,443381	214,577452	448,294752	44,7761635	
	Education, research	ktoe	46,4977646	17,6741375	45,661296	-85	
	Administrations	ktoe	2,8545086	16,9681856	81,5545029	41,2614895	
	Trade (wholesale and retail)	ktoe	80,4351533	125,518549	215,949656	25,6386172	
	<b>Sub-total 2a with preferred indicators (non electricity)</b>	ktoe	312,141388	443,184421	967,514174	127,740573	
		GWh	3629,55103	5153,30723	11250,1648	1485,3555	
P7	<b>Electricity uses by sub sector</b>						
	Hotel, restaurants	ktoe	-30	-51	-66	-8	
	Health and social action	ktoe	-28	-47	-83	-26	
	Education, research	ktoe	-14	-24	-49	-28	
	Administrations	ktoe	-115	-247	-374	-204	
	Trade (wholesale and retail)	ktoe	-51	-80	-174	-67	
	<b>Sub-total 2b with preferred indicators (electricity)</b>	ktoe	0	0	0	0	
		GWh	0	0	0	0	
	<b>Total 2 with preferred indicators</b>	ktoe	312,141388	443,184421	967,514174	127,740573	
		GWh	3629,55103	5153,30723	11250,1648	1485,3555	

CODE ESD	Energy efficiency indicators		Units	2007	2008	2009	2010	2011	2012
M3	Non electric consumption per employee (climate adjusted)		toe/emp	0,60	0,58	0,57	0,62	0,49	
M4	Total unit consumption of electricity per employee		kWh/emp	4912	5066	5214	5409	5132	
P6	<b>Non electricity consumption of sub sector per employee (climate adjusted)</b>								
	Hotel, restaurants		toe/emp	1,29	1,22	1,22	1,12	1,28	
	Health and social action		toe/emp	0,81	0,77	0,74	0,67	0,79	
	Education, research		toe/emp	1,02	0,99	1,01	0,99	1,06	
	Administrations		toe/emp	0,27	0,27	0,26	0,26	0,26	
	Trade (wholesale and retail)		toe/emp	0,64	0,62	0,61	0,58	0,63	
P7	<b>Total electricity consumption of sub sector per employee</b>								
	Hotel, restaurants		kWh/emp	10088	10431	10679	10833	10171	
	Health and social action		kWh/emp	3556	3658	3723	3844	3643	
	Education, research		kWh/emp	2768	2857	2920	3079	2947	
	Administrations		kWh/emp	3900	4068	4270	4453	4198	
	Trade (wholesale and retail)		kWh/emp	7875	8046	8142	8460	8096	

Data	Source	Units	2007	2008	2009	2010	2011	2012
Heating Degree-days	SOeS	degree	1793	1939	1977	2296	1645	1972
Heating Degree-days of reference	SOeS	degree	2026	2026	2026	2026	2026	2026
Cooling Degree days								
Cooling Degree days of reference								

Final consumption of tertiary	CEREN	ktoe	18387	19232	19418	20959	18181	
Electricity consumption of tertiary	CEREN	ktoe	8136	8431	8586	8974	8616	
Final consumption of hôtels, restaurants	CEREN	ktoe	2010	2083	2125	2280	2027	
Electricity consumption of hôtels, restaurants	CEREN	ktoe	867	904	924	964	928	
Final consumption of health and social action sector	CEREN	ktoe	3256	3414	3440	3648	3273	
Electricity consumption of health and social action sector	CEREN	ktoe	976	1019	1054	1103	1070	
Final consumption of education, research	CEREN	ktoe	2119	2230	2283	2526	2007	
Electricity consumption of education, research	CEREN	ktoe	443	459	465	482	455	
Final consumption of administrations								
Electricity consumption of administrations								
Final consumption of trade (wholesale and retail)	CEREN	ktoe	4294	4455	4463	4788	4228	
Electricity consumption of trade (wholesale and retail)	CEREN	ktoe	2335	2401	2420	2516	2430	
Final consumption of offices (private and public)	CEREN	ktoe	4547	4809	4846	5285	4558	
Electricity consumption of offices (private and public)	CEREN	ktoe	2674	2787	2851	3011	2875	
Floor area of tertiary	CEREN	Mm2	891	903	912	922	931	938
Employment of tertiary	INSEE	k	19259	19354	19145	19291	19521	19537
Employment of hôtels, restaurants sector	INSEE	k	1000	1007	1006	1035	1061	1075
Employment of health sector	INSEE	k	3191	3239	3293	3336	3416	
Employment education sector	INSEE	k	1863	1867	1852	1820	1797	
Employment of offices and admin (non trading services)	INSEE	k	7972	7968	7764	7864	7963	
Employment of trade sector	INSEE	k	3448	3470	3457	3459	3490	3504



Energy consumption of tertiary (climate corrected)	SOeS					22400	22900	22600
Electricity consumption of tertiary (climate corrected)	SOeS					12100	11900	12000

## INDUSTRY

CODE ESD	Savings	Units	2008	2009	2010	2011	2012
P14	Chemical and petrochemical	ktoe	-323	190,886299	450,866318	395,596575	336,384872
P14	Mining and quarrying	ktoe	9,675	2,25	1,8	1,2	0
P14	Iron and steel	ktoe	54,0052181	1,68154206	-3	9,4665109	-19
P14	Non ferrous metals	ktoe	1,31751327	-21	-4	-15	-27
P14	Non metallic minerals	ktoe	-30	-57	-53	-33	-77
P14	Wood	ktoe	-243	-84	-105	-314	277,635572
P14	Paper Printing	ktoe	8,66810345	25,5021552	-14	57,1918103	-27
P14	Food	ktoe	47,4517034	15,6472946	-137	302,238076	328,352705
P14	Textile	ktoe	-45	-30	1,4814116	25,4602027	9,88162124
P14	Machinery	ktoe	-107	-361	-475	-304	-339
P14	Transport equipment	ktoe	46,6451064	-63	-14	97,8013617	13,5168085
P14	Construction	ktoe	-102	139,411922	0,11530249	115,850178	83,0290036
P14	Others	ktoe	262,194617	134,945736	-263	-373	233,544272
	<b>Total with preferred indicators</b>	ktoe	429,957261	510,324949	454,263032	1004,80471	1282,34485

CODE ESD	Indicators (energy consumption per unit of production)	Units	2007	2008	2009	2010	2011	2012
P14	Chemical and petrochemical	toe/index	6,73	7,36	6,33	5,83	5,96	6,08
P14	Mining and quarrying	toe/index	0,25	0,17	0,23	0,23	0,24	0,25
P14	Iron and steel	toe/index	3,52	3,09	3,50	3,54	3,43	3,72
P14	Non ferrous metals	toe/index	0,84	0,83	1,07	0,88	0,99	1,14
P14	Non metallic minerals	toe/index	3,47	3,72	4,06	4,00	3,77	4,29
P14	Wood	toe/index	0,63	0,87	0,73	0,76	0,99	0,30
P14	Paper Printing	toe/index	2,30	2,27	2,20	2,36	2,07	2,42
P14	Food	toe/index	4,67	4,61	4,65	4,84	4,30	4,27
P14	Textile	toe/index	0,33	0,37	0,36	0,33	0,30	0,32
P14	Machinery	toe/index	1,67	1,77	2,12	2,23	2,01	2,07
P14	Transport equipment	toe/index	1,11	1,06	1,19	1,13	1,00	1,10
P14	Construction	toe/index	1,14	1,25	1,00	1,14	1,02	1,05
P14	Others	toe/index	1,36	1,08	1,20	1,67	1,79	1,08

Share of consumption covered by ETS	Units	2007
Chemical and petrochemical	%	0,50
Mining and quarrying	%	0,90
Iron and steel	%	0,90

Data from expert

Non ferrous metals		%	0,90
Non metallic minerals		%	0,90
Wood		%	0,15
Paper Printing		%	0,75
Food		%	0,20
Textile		%	0,15
Machinery		%	0,15
Transport equipment		%	0,15
Construction		%	0,10
Others		%	0,15

<b>Data</b>	<b>Source</b>	<b>Units</b>	<b>2 007</b>	<b>2 008</b>	<b>2 009</b>	<b>2 010</b>	<b>2 011</b>	<b>2 012</b>
Final consumption of chemical and petrochemical	SOeS calculation	ktoe	7 074	7 572	6 073	5 829	6 128	6 307
Final consumption of mining and quarrying	SOeS calculation	ktoe	298	195	229	232	242	248
Final consumption of iron and steel	SOeS calculation	ktoe	4 517	3 889	2 991	3 544	3 571	3 569
Final consumption of non ferrous metals	SOeS calculation	ktoe	1 109	984	971	881	978	1 034
Final consumption of non metallic minerals	SOeS calculation	ktoe	4 295	4 391	3 907	3 995	4 112	4 044
Final consumption of wood and wood products	SOeS calculation	ktoe	827	1 056	760	758	1 026	296
Final consumption of paper, pulp and printing	SOeS calculation	ktoe	2 670	2 465	2 179	2 357	1 997	2 218
Final consumption of food and tobacco	SOeS calculation	ktoe	4 662	4 584	4 535	4 843	4 415	4 359
Final consumption of textile and leather	SOeS calculation	ktoe	469	452	354	326	305	323
Final consumption of machinery	SOeS calculation	ktoe	2 183	2 242	2 010	2 233	2 126	2 098
Final consumption of transport equipment	SOeS calculation	ktoe	1 309	1 165	1 094	1 130	1 048	1 087
Final consumption of construction	SOeS calculation	ktoe	1 286	1 376	1 043	1 144	1 036	1 037
Final consumption of other industries	SOeS calculation	ktoe	1 583	1 190	1 142	1 673	1 832	1 041
Industrial production index of chemical and petrochemical	INSEE	2010=100	105,1	102,9	95,9	100,0	102,8	103,7
Industrial production index of mining and quarrying	INSEE	2010=100	119,2	116,7	100,6	100,0	101,6	98,3
Industrial production index of iron and steel	INSEE	2010=100	128,4	125,9	85,5	100,0	104,2	96,0
Industrial production index of non-ferrous metals	INSEE	2010=100	131,9	118,6	90,9	100,0	99,0	90,5
Industrial production index of non metallic minerals	INSEE	2010=100	123,8	117,9	96,2	100,0	109,1	94,3
Industrial production index of wood and wood products	INSEE	2010=100	130,3	121,3	104,1	100,0	103,4	98,1
Industrial production index of paper, pulp and printing	INSEE	2010=100	116,0	108,6	99,1	100,0	96,7	91,6
Industrial production index of food and tobacco	INSEE	2010=100	99,8	99,4	97,5	100,0	102,6	102,1
Industrial production index of textile and leather	INSEE	2010=100	143,1	121,7	97,1	100,0	102,2	102,1
Industrial production index of machinery	INSEE	2010=100	130,4	126,4	94,7	100,0	105,6	101,5
Industrial production index of transport equipment	INSEE	2010=100	117,5	109,5	91,6	100,0	104,4	99,0
Industrial production index of construction	INSEE	2010=100	112,4	110,4	104,7	100,0	101,8	98,7
Industrial production index of other industries	INSEE	2010=100	116,1	109,9	95,4	100,0	102,2	96,5

Précisions méthodologiques :

Il y a eu un changement de méthodologie cette année dans le décompte de la consommation d'EnR dans l'industrie. Le changement résulte du traitement à partir de 2012 de la chaleur produite par les industriels (pour l'autoconsommation et/ou la vente). Pour l'instant il n'y a pas eu de révision des chiffres antérieurs à 2012 avec la nouvelle méthode, et il n'est pas prévu de recalculer le chiffre 2012 selon l'ancienne méthode. Les sous-secteurs les plus impactés par la rupture de série sont les gros consommateurs de biomasse ("Paper, pulp and printing" et "Wood and wood products").

	Units	2008	2009	2010	2011	2012
<b>Total energy Savings (sum of sectors)</b>	ktoe	3601	4655	6929	6293	9039
	GWh	41869	54128	80574	73170	105109