

Swiss appliances sales development 2004 – 2011

Analysis and Graphs:

S.A.F.E. (Swiss Agency for efficient energy use) www.energieeffizienz.ch and www.topten.ch

Data source:

FEA (Swiss Association of the Domestic Electrical Appliances Industry), www.fea.ch

Content

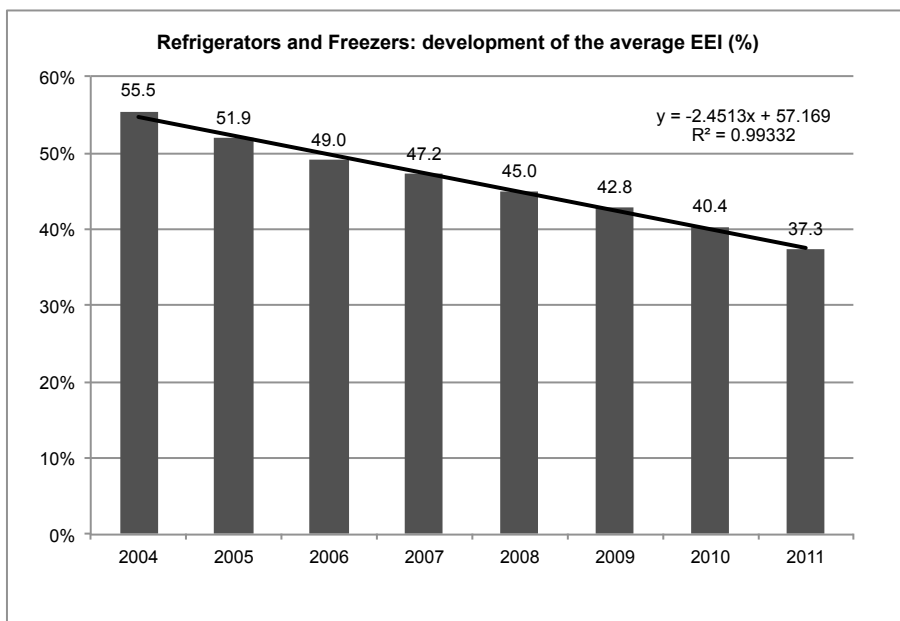
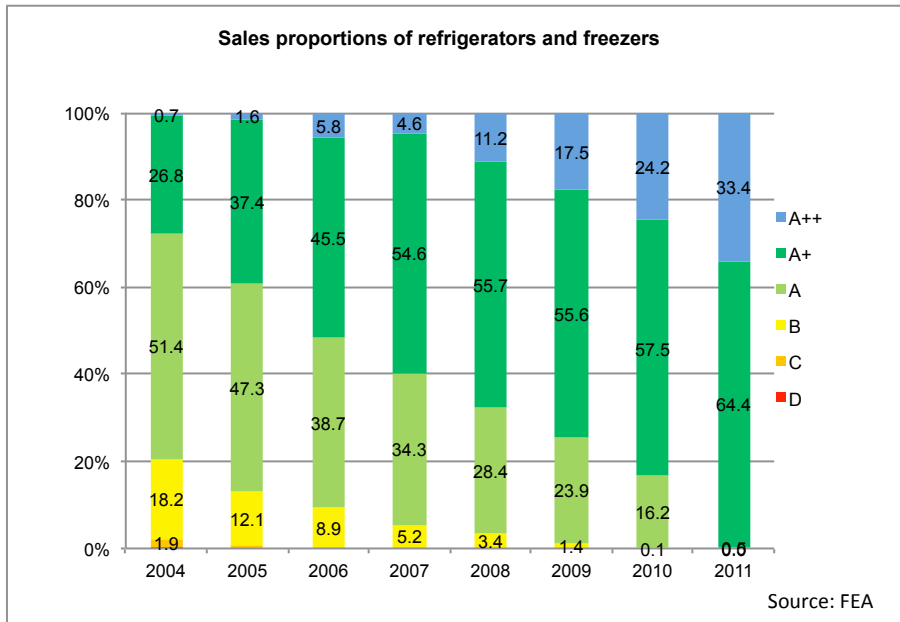
1. Refrigerators and freezers	2
2. Refrigerators	3
3. Freezers	4
4. Washing machines	5
5. Tumble driers	6
6. Dishwashers	7
7. Ovens	8
8. Annex	9

1. Refrigerators and freezers

Sales of refrigerators and freezers, Switzerland

Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A++	2'682	5'857	22'193	17'902	43'828	68'081	98'162	136'732
A+	97'672	138'927	174'196	211'803	217'279	215'883	233'010	263'839
A	187'611	175'877	148'257	133'312	110'772	92'837	65'547	1'955
B	66'504	44'967	33'926	20'186	13'463	5'389	235	0
C	7'046	2'691	1'132	648	0	0	0	0
D	1'263	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0
F	1'757	1'419	1'735	2'062	1'791	1'587	1'567	1'191
G	0	0	0	0	0	0	0	0
unknown	312	2'161	1'609	2'293	3'110	4'497	6'512	6'143
Total	364'847	371'899	383'048	388'206	390'243	388'274	405'033	409'860

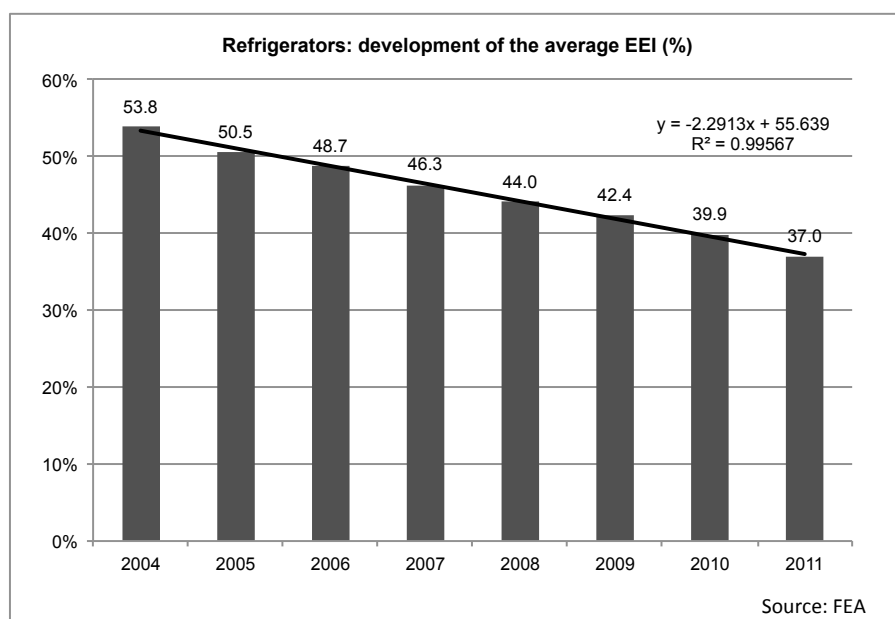
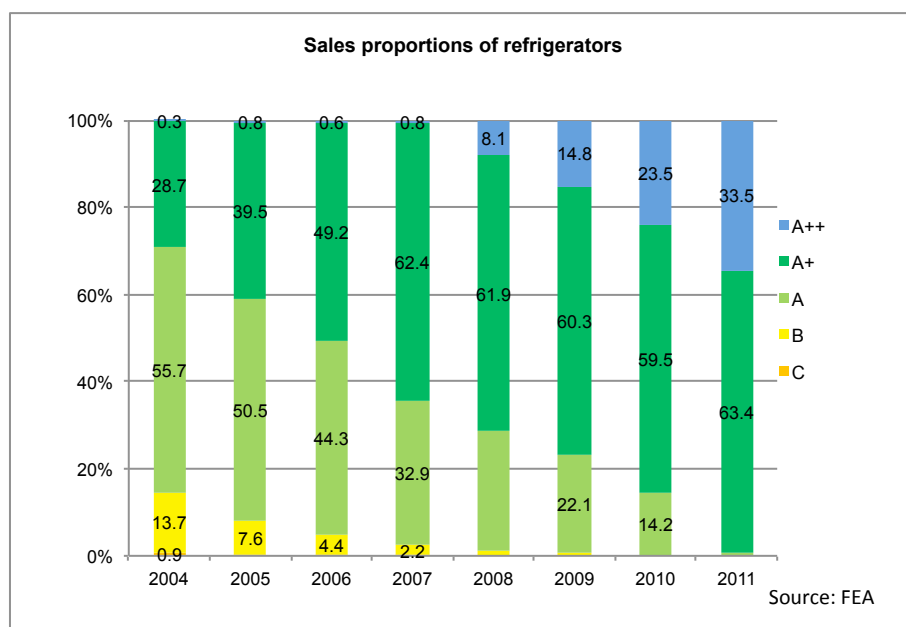


2. Refrigerators

Sales of refrigerators, Switzerland

(Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A++	893	2'139	1'747	2'270	22'493	40'306	68'323	98'822
A+	74'191	104'479	135'814	171'324	172'730	164'493	173'318	186'789
A	144'114	133'717	122'352	90'339	75'069	60'327	41'372	1'615
B	35'528	20'188	12'214	6'061	3'132	1'539	0	0
C	2'254	502	546	394	0	0	0	0
D	0	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0
F	1'757	1'419	1'735	2'062	1'791	1'587	1'567	1'191
G	0	0	0	0	0	0	0	0
unknown	166	2'161	1'609	2'293	4'007	4'497	6'512	6'143
Total	258'903	264'605	276'017	274'743	279'222	272'749	291'092	294'560

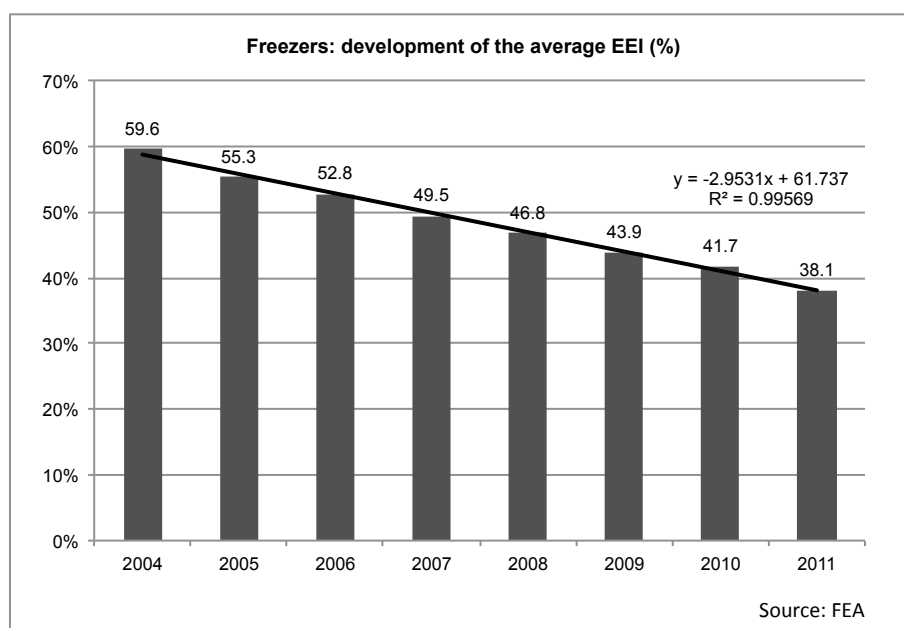
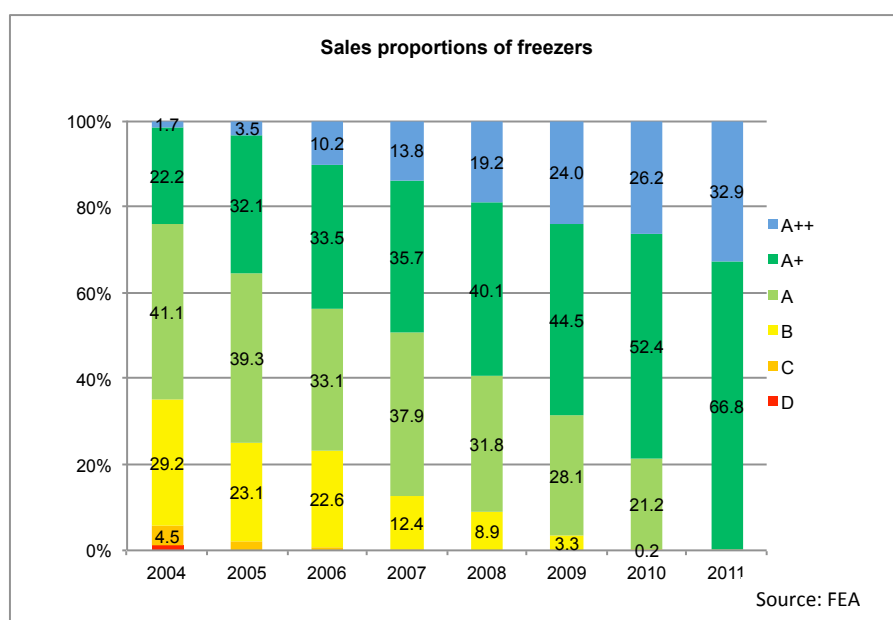


3. Freezers

Sales of freezers, Switzerland

(Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A++								
A+	1'789	3'718	10'912	15'632	21'335	27'775	29'839	37'910
A	23'481	34'448	35'866	40'479	44'549	51'390	59'692	77'050
B	43'497	42'160	35'443	42'973	35'286	32'510	24'175	340
C	30'976	24'779	24'224	14'125	9'851	3'850	235	0
D	4'792	2'189	586	254	0	0	0	0
E	1'263	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0
unknown	146	0	0	0	0	0	0	0
Total	105'944	107'294	107'031	113'463	111'021	115'525	113'941	115'300
	105'944	107'294	107'031	113'463	111'021	115'525	113'941	115'300

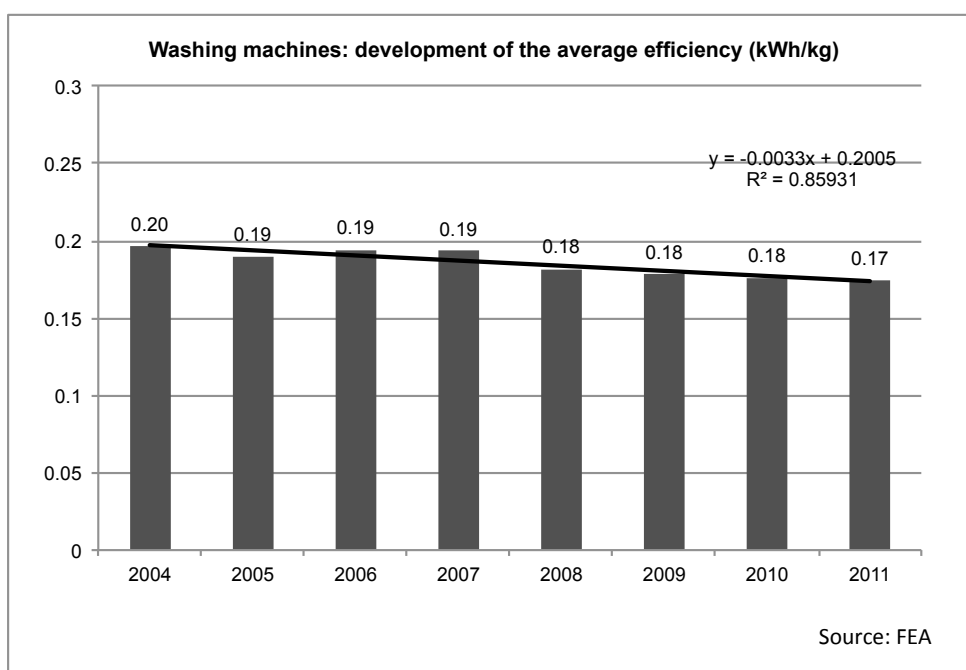
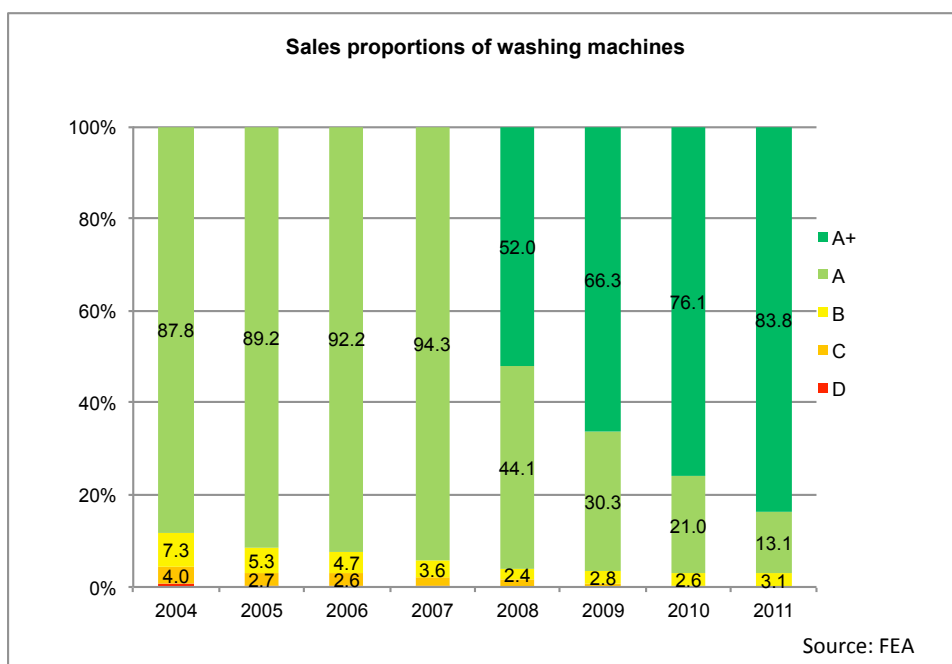


4. Washing machines

Sales of washing machines, Switzerland

(Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A+					94'514	119'908	143'847	161'074
A	144'802	145'712	157'377	165'791	80'061	54'755	39'727	25'262
B	11'995	8'642	8'088	6'279	4'436	4'981	4'852	5'885
C	6'566	4'382	4'448	3'627	2'667	1'214	700	0
D	965	556	627	106	0	0	0	0
E	371	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0
unknown	303	4'014	184	0	0	0	0	0
Total	165'002	163'306	170'724	175'803	181'678	180'858	189'126	192'221

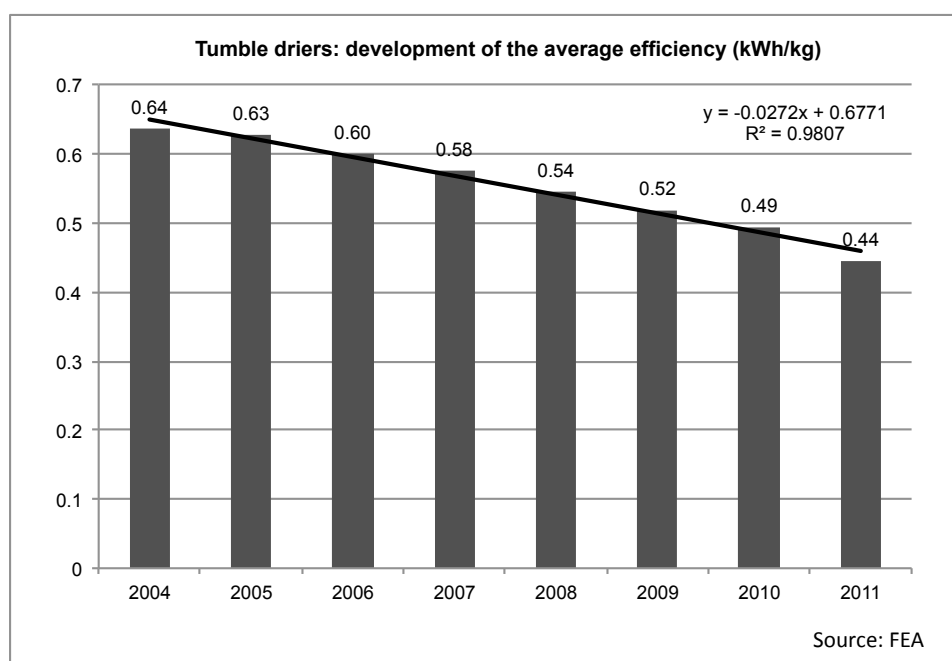
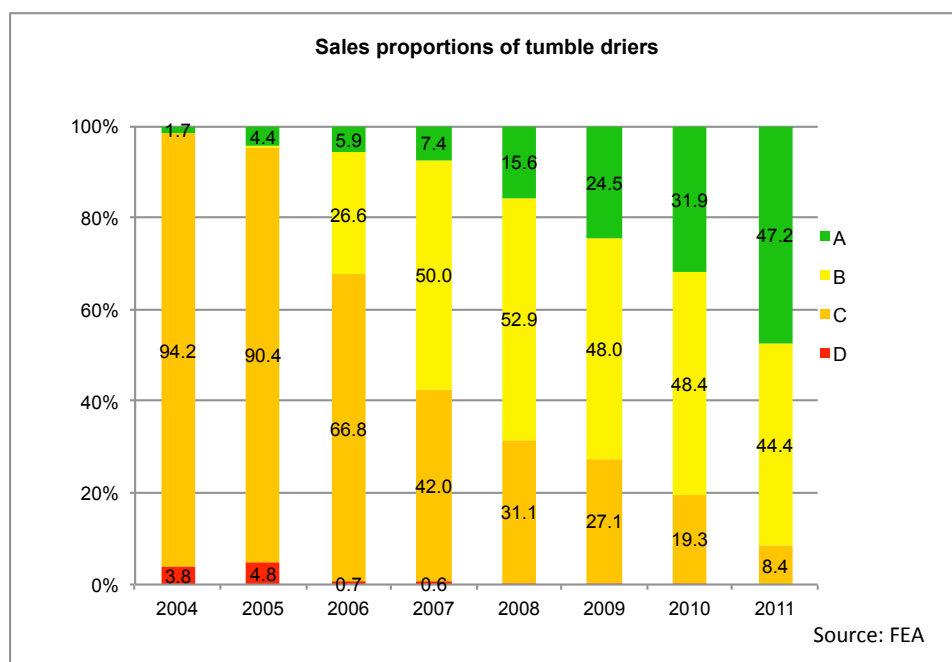


5. Tumble driers

Sales of tumble driers, Switzerland

(Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A	1'513	4'195	5'885	7'469	16'522	25'135	35'993	54'381
B	0	123	26'445	50'383	55'964	49'288	54'628	51'090
C	81'786	85'359	66'370	42'332	32'883	27'817	21'777	9'669
D	3'301	4'551	673	594	441	377	369	0
E	1	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0
G	227	189	0	0	0	0	0	0
unknown	0	7	0	0	0	0	0	0
Total	86'828	94'424	99'373	100'778	105'810	102'617	112'767	115'140

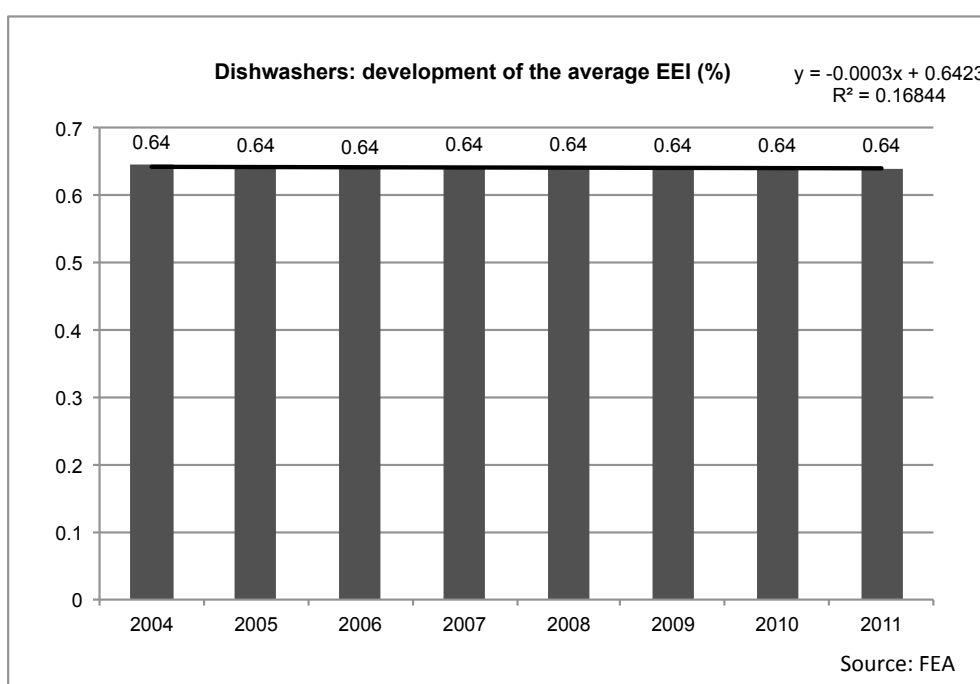
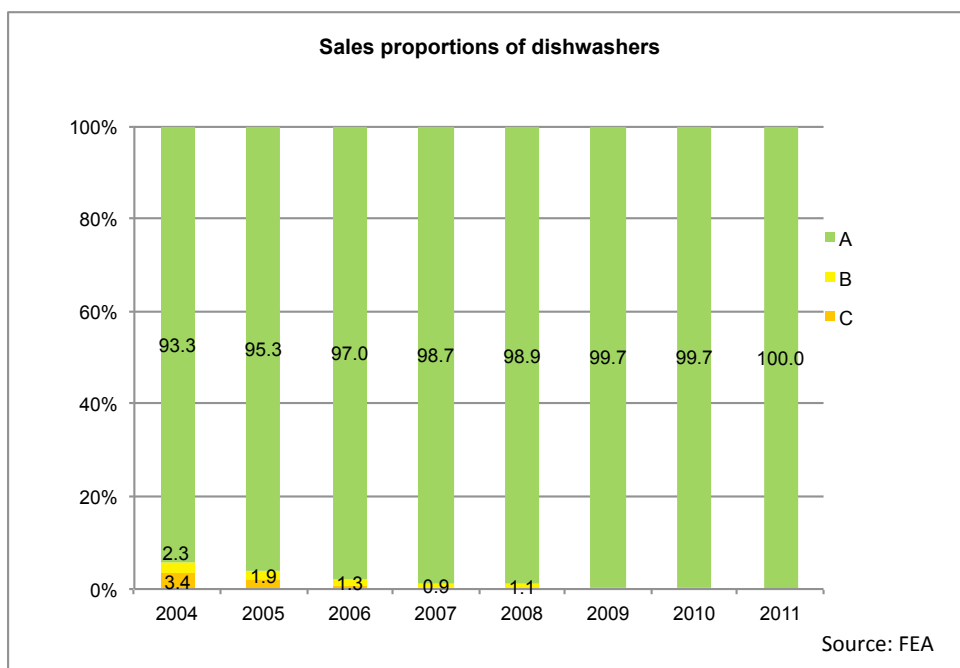


6. Dishwashers

Sales of dishwashers, Switzerland

(Source: FEA)

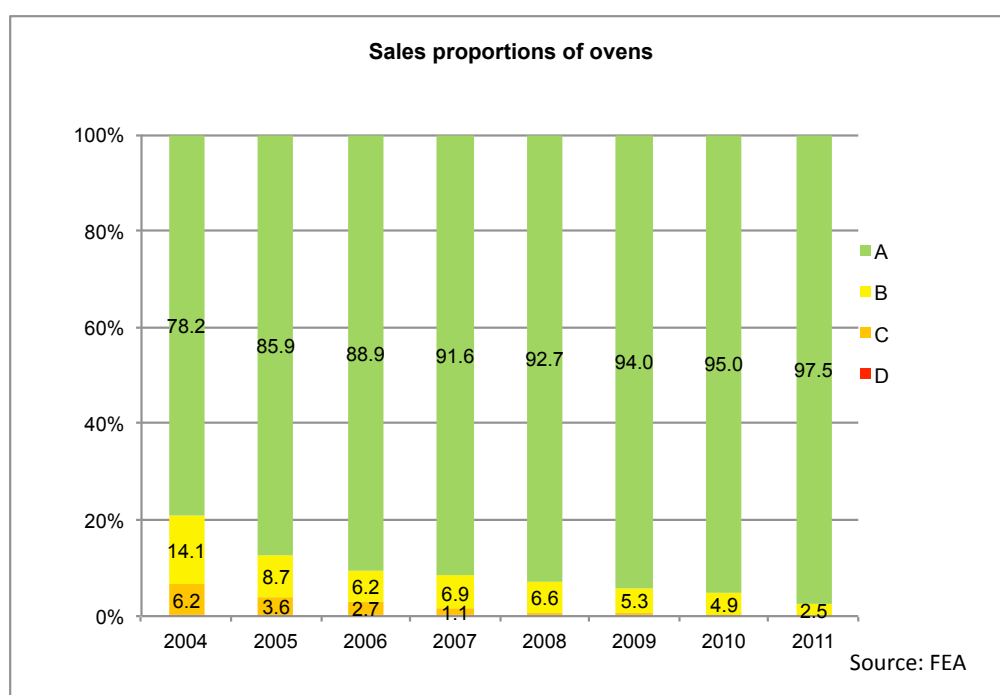
Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A	160'949	170'161	179'787	189'980	193'967	195'714	209'871	210'647
B	3'931	3'306	2'392	1'639	2'060	655	649	0
C	5'802	3'512	1'428	889	0	0	0	0
D	24	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0
unknown	1'760	1'641	1'646	0	0	0	0	0
Total	172'466	178'620	185'253	192'508	196'027	196'369	210'520	210'647



7. Ovens

Sales of ovens, Switzerland (Source: FEA)

Efficiency class	2004	2005	2006	2007	2008	2009	2010	2011
A	124'342	140'534	148'567	154'663	154'838	153'178	159'883	162'062
B	22'466	14'256	10'382	11'582	11'006	8'688	8'275	4'232
C	9'889	5'956	4'566	1'903	920	774	13	0
D	288	252	567	531	248	245	99	0
E	1	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0
unknown	2'063	2'607	2'972	91	0	0	0	0
Total	159'049	163'605	167'054	168'770	167'012	162'885	168'270	166'294



8. Annex

Calculation of the average product efficiency: assumptions

The average efficiency index has been calculated according to the following scheme:

Average efficiency index = Σ (all classes) sales proportion efficiency class (%) * EEI of the efficiency class

The specific assumptions for the appliance categories are as follows:

1. Refrigerators and freezers

Assumption: the EEI of all products of a class corresponds to the (lower) class limit according to the energy label from 2003:

Class	EEI
A++	30%
A+	42%
A	55%
B	75%
C	90%
D	100%
E	125%

2. Washing machines

Assumption: the specific efficiency of all products of a class corresponds to the (lower) class limit according to the energy label from 1996:

Class	kWh/kg
A+	0.17
A	0.19
B	0.23
C	0.27
D	0.31

3. Tumble drier

Assumption: the specific efficiency of all products of a class corresponds to the (lower) class limit according to the energy label from 1995, based on an initial residual moisture content of 60%. Exemption: for class A a specific efficiency of 0.3 kWh/kg is assumed.

Class	kWh/kg
A	0.3
B	0.56
C	0.64
D	0.72

4. Dishwashers

Assumption: the EEI of all products of a class corresponds to the (lower) class limit according to the energy label from 1999:

Class	kWh/kg
A	0.64
B	0.76
C	0.88
D	1.00