

Euro TopTen

Monitoring of appliances listed into the national databases

Semester 1, Deliverable 9, Work package 3

Market Monitoring Note n. 1

Prepared by SEVEN, The Energy Efficiency Center, Czech Republic

Over the first semester of the existence of the national TopTen databases (launched between September and December 2006), some 3374 appliances have been on-line in 11 national databases. (these national databases include Switzerland, as an associate member, and the common TopTen.euro website).

While the conditions to include a product into the national database are different in each country, depending on their local conditions and product availability, the common monitoring system is divided into 34 product categories in the first semester. The majority of the products followed so far are among the appliances covered by the energy labelling system.

All countries with products on line in the first semester have covered the cooling appliances (divided into 5 sub categories). Most of the countries have also covered dishwashers and washing machines. The most active countries, in terms of the number of categories covered, are Austria and Switzerland. Other countries plan to increase the number of categories covered during the next semesters.

The reasons why certain categories have been included into the TopTen database in a certain country depend mainly on two conditions – the availability of products on the national market and their distribution among the energy classes.

For example, only Switzerland has covered electric ovens, since there is a large number of products ranked by the energy class A without a possibility to divide these products further. Thus it was not easily possible to prepare a chart of „Top Ten“ products.

On the other hand, cooling appliances give a good chance to divide them into small group of recommendable products. This can be done on one hand by dividing them into small product categories (by size and volume, number of shelves, freestanding or build in, cooling and / or freezing part etc.). In addition, it is possible to rank them not only by the energy class, but also by their energy efficiency index. Despite this figure is not commonly publicised, it is possible either to obtain it from the manufacturers, or calculate it manually.

The intention was to cover mainly appliances which either have large impact on the total household energy consumption (mainly appliances with energy labels) or appliances with

large energy input and which are considered by consumers as important ones (light sources, televisions, cars etc.).

Since the project is called TopTen, the intention of the project partners was to develop selection criteria in order to be able to select approximately ten products for each category. However, since there are many hundred product types available on the market and since in some categories it is difficult to develop further subcategories, the most common number of appliances within one category is typically between 20 to 30 per country. The arithmetical average is even 31 appliances per category.

The common Euro TopTen product categories cover the the products with the most outstanding performance (within the cooling appliances, driers, energy saving lamps and cars) and available widely throughout the EU.

As can be seen from the table in the annex, only products allocated to the highest energy classes have been able to enter the databases. A set of other criteria have been used to select the most energy efficient appliances, which include the energy efficiency index, washing and drying classes, water consumption etc.

Concrete number in specific categories listed in the annexed table have similar values throughout the individual countries. Some differences exist however and the main reason for this is that different product categories can be covered within the common monitoring tool in various countries.

Table 1: List of participating countries, number of categories covered, and the number of appliances listed nationally in semester 1.
(Total number of categories is 34).

Country	Number of categories covered	Number of appliances listed
Austria	23	959
Belgium	7	266
Czech Republic	11	110
Finland	0	0
France	9	213
Hungary	0	0
Italy	4	133
Netherlands	8	210
Poland	6	148
Switzerland	29	1091
Top Ten EU	9	244

Note: the number of appliances in the databases in individual countries (and in future semesters) is not an indication of the quality of the project, as criteria for selecting the market have been set up individually and do change (towards more strict ones) in time.

Table 2: Criteria for including appliances into the TopTen database (example of TopTen, Austria, Switzerland and the Czech Republic for selected cooling and cleaning appliances)

<i>Category / Country</i>	<i>TopTen</i>	<i>Austria</i>	<i>Switzerland</i>	<i>Czech Republic</i>
2 door refrigerator freezer	A++	A++	A+ / A++	A++
Chest Freezer	A++	A++	A++	A++
Dishwasher freestanding	AAA	AAA, 12 l	AAA	AAA, 12 l
Washing machine front load	AAA	AAA, 42 l	AAA, 9l/kg	A+AA, 39 l/5kg

Picture: Examples of the project monitoring software (<http://monitoring.topten.info>)

Main Menu:	
List of Appliances	List of Users
Export	Log off
Appliances	
Refrigerator freestanding	Change
Refrigerator in-build	Change
2 Door refrigerator freezer	Change
UpRight Freezer	Change
Chest freezer	Change
Dishwasher freestanding	Change
Dishwasher in	Change
Oven fre	Change
Oven in	Change
Washing machine front	Change
Washing machine top	Change
Combined Washers - Driers	Change
Electric Tumble Driers	Change
Air conditioner fix	Change
Air conditioner mobile	Change
Coffee machine	Change
Induction hob	Change
Humidifier	Change
Inkjet-equipment	Change
Laser-Printer b/w	Change
Laser-Printer color	Change
Laser MFD b/w	Change

Appliances: Semester 1, Year: 2007									
Refrigerator freestanding									
Efficiency index average best	Efficiency index average mean	Energy/annum in kWh best	Energy/annum in kWh mean	EU Energy Class (A, A+ or A++)	Number of appliances	Price (Eur) best	Price (Eur) mean		
28	29.49	82	115.5	A++	12	0	0	Edit	
Refrigerator in-built									
Efficiency index average best	Efficiency index average mean	Energy/a (kWh) best	Energy/a (kWh) mean	EU Energy Class (A, A+ or A++)	Number of appliances	Price (Eur) best	Price (Eur) mean		
27.1	29.38	135	163.1	A++	14	0	0	Edit	
2 Door refrigerator freezer									
Efficiency index average best	Efficiency index average mean	Energy/a (kWh) best	Energy/a (kWh) mean	EU Energy Class (A, A+ or A++)	Number of appliances	Price (Eur) best	Price (Eur) mean		
28.7	29.77	168	197.6	A++	21	0	0	Edit	
UpRight Freezer									
Efficiency index best	Efficiency index mean	Energy/a (kWh) best	Energy/a (kWh) mean	EU Energy Class (A, A+ or A++)	Number of appliances	Price (Eur) best	Price (Eur) mean		
29.6	29.8	135	198.3	A++	45	0	0	Edit	
Chest freezer									
Efficiency index best	Efficiency index mean	Energy/a (kWh) best	Energy/a (kWh) mean	EU Energy Class (A, A+ or A++)	Number of appliances	Price (Eur) best	Price (Eur) mean		
27.4	28.87	134	174.78	A++	34	0	0	Edit	

Annex: The table with all numbers filled in within the first semester.

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Market Monitoring Note number 1
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Databáze spotřebičů TOP TEN

Chladnička a mraznička š. 60 cm, nad 315 l							
▲ ▼ Značka	Whirlpool	Whirlpool	Ardo	Haier	Whirlpool	Electrolux	Neúsporný spo
▲ ▼ Adresa	www.whirlpool.cz	www.whirlpool.cz	www.ardo.cz	www.haier.cz	www.whirlpool.cz	www.electrolux.cz	
▲ ▼ Model	ARC 5773	ARC 5772	CO 2610 SH	HRF 416 KAA	ARC 5783	ERB 4032	neznačkov
▲ ▼ Energie/rok v kWh	266.45	266.45	266	260	266	233.6	361.35
▲ ▼ Energetická třída (A, A+ nebo A++)	A+	A+	A+	A+	A+	A+	A
▲ ▼ Výška (cm)	203	203.2	200	200	203	200	200
▲ ▼ Šířka (cm)	60	60	60	60	60	60	60
▲ ▼ Hloubka (cm)	61	61	60	60	61	62.5	64
▲ ▼ Celkový užitečný objem (l)	326	326	332	328	326	338	365
▲ ▼ Přibližné náklady za dobu životnosti 10 let	10658	10658	10640	10400	10640	9344	14454