



## **Domestic Refrigerated Appliances Actions and Assumptions: Switzerland Data**

The aim of this document is to detail the actions and assumptions made in interpreting and processing the data specified above during the mapping and benchmarking of domestic refrigerated appliances. It is designed to be read in parallel with the document “Domestic Refrigerated Appliances - Summary Overall Mapping and Benchmarking Approach - IEA 4E”. Section numbers in each document should align.

### **1 Overview of the mapping and benchmarking outputs for domestic refrigerated appliances**

No data specific actions.

### **2 The mapping and benchmarking process for domestic refrigerated appliances**

#### **2.1 Data Cleaning and Pre-processing**

##### **2.1.1 Data cleaning**

No data cleaning was undertaken.

##### **2.1.2 Pre-processing**

- a. All data was provided as market totals in the form shown in the table below:

<b>Metric (for All refrigerators and Freezers)</b>	<b>Year</b>
New Products total in 1000s	
Consumption of new appliances, million kWh (Consumption of new equipment)	
Specific consumption of new equipment, in kWh / a (specific consumption new equipment)	

No data was available on the volumes of Swiss refrigerated appliances and consequently it was assumed that the average volumes of Austrian models were a reasonable approximation for the Swiss market.

- b. Compartments within the two Swiss unit types were allocated to one of mapping and benchmarking compartment categories based on the table below:

Swiss Grouping	Compartment Allocations for Fresh, Frozen and "Other Compartment Volumes (T=degC)					
	$14^{\circ}\text{C} \geq T > 5^{\circ}\text{C}$	$5^{\circ}\text{C} \geq T > 3^{\circ}\text{C}$	$3^{\circ}\text{C} > T > -2^{\circ}\text{C}$	$-2^{\circ}\text{C} \geq T > -9^{\circ}\text{C}$	$-9^{\circ} \geq T > -15^{\circ}\text{C}$	$T \leq -15^{\circ}\text{C}$
	Comp 1	Comp 2	Comp 3	Comp 4	Comp 5	Comp 6
Kühlschränke/Kühl-Gefrier-Kombinationen (fridge Freezer)		Fresh Volume				Frozen Volume
Tiefkühlgeräte (Freezer)						Frozen Volume

## 2.2 Production of Graphical Mapping Outputs

Production of Mapping Graphics as described in *Domestic Refrigerated Appliances - Summary Overall Mapping and Benchmarking Approach - IEA 4E* section 2.2 with adjusted volume calculations following the EU methodology described in section 2.3.2 of the same document.

## 2.3 Normalisation

### 2.3.1 Normalisation Overview

No data specific actions.

### 2.3.2 Allocation of declared UEC to compartments

No data specific actions.

### 2.3.3 Normalisation of "compartment EC" for test temperature variations and calculation of normalised UEC

Normalisation to EU regulations, therefore not applicable in the Switzerland as the same test methodology is in force.

### 2.3.4 Calculation of Normalised UEE

No data specific actions.

### 2.3.5 Calculation of normalised EEI

No data specific actions.