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**Report**

# **Material flow Monitor - a time series**

Roel Delahaye, Krista Keller, Cor Graveland, Albert Pieters and Joram  
Vuik

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remarks

The views expressed in this paper are those of the author(s) and do not necessarily reflect the policies of Statistics Netherlands.

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# 1. Introduction

## 1.1 Background

The Material Flow Monitor (MFM) was first compiled by Statistics Netherlands for the year 2008 (Delahaye and Zult, 2013). It was commissioned by the Dutch Ministry of Economic Affairs to support the national resource policy on the basis of macro-economic data available at Statistics Netherlands. The purpose of the Monitor was to provide insight into the physical material flows (in kilos) to, from and within the Dutch economy. A database was set up from which policy-relevant indicators were derived to deal with such issues as efficient resource use, economic dependency on resources and the use of secondary resources. The results of the MFM 2008 met expectations and so in 2014, the Ministry of Economic Affairs commissioned another Monitor for the year 2010. Subsequently, the MFM 2012 was compiled in 2015 and the MFM 2008 was revised in order to allow for comparisons across time. At the same time, supply and use tables for water (physical water flow accounts) were compiled (Verschuren *et al.*, 2015).

## 1.2 Material Flow Monitors 2008, 2010 and 2012

The MFM 2010 was set up in conformance with the revised National Accounts (UN *et al.*, 2009). As a result, a different set of classification for products and industries was introduced compared to MFM 2008. The monetary figures on which the physical figures are based were revised as well. Due to these revisions, comparing the results of MFM 2008 with those of MFM 2010 was no longer possible, and MFM 2008 was therefore revised in 2015 to make it compatible with MFM 2010. Unfortunately this could not be done without a loss in the level of detail regarding the product classification of MFM 2008. MFM 2012 is also consistent with the revised National Accounts.

## 1.3 Structure of the paper

First, the methodology used to set up the MFMs is described briefly. Second, the results of the MFMs 2008, 2010 and 2012 are presented as well as the results for water supply and use. The paper ends with a discussion and several conclusions.

## 2. Methodology

### 2.1 General setup of the Material Flow Monitor

Elaborate information on the setup and compilation of the Material Flow Monitors can be found in the Dutch publication “Monitor Materiaalstromen” (Delahaye and Zult, 2013). Below is a summary of the methodology used.

#### 2.1.1 Supply and use tables

In the MFMs, material flows are recorded in a framework of supply and use tables. Supply and use tables are compiled according to internationally agreed principles and definitions that are consistent with the system of National Accounts (UN et al., 2009, 2012). Figure 2.1.1.1 shows a schematic representation of physical supply and use tables. These tables show e.g. flows of products, residuals and natural resources to and from industrial branches within the Dutch economy, households (consumption), the environment and other economies (imports and exports). The physical use and supply tables are mainly derived from the monetary use and supply tables in the National Accounts. However, in the National Accounts, products are expressed in terms of their monetary value and therefore residuals (e.g. solid waste or CO<sub>2</sub> emissions) and natural resources (at the time of extraction) are not included. Although residuals and resources have no monetary value, they do have mass, and therefore they are part of a physical system of use and supply tables. The use and supply tables from the National Accounts are therefore complemented by additional data on residuals and natural resources. However, there are some material flows for which no data source is available. These unaccounted flows are part of the ‘balancing item’.

A balanced supply and use for each good and each industry (i.e. what goes in must come out) is an important feature of supply and use tables. To get a mass balance for each industry, a balancing item is added. The balancing item represents the sum of different items such as the exchange of gases (besides CO<sub>2</sub>) between the environment and the economy during the combustion of fossil fuels (e.g. the O<sub>2</sub> uptake), the addition or removal of water during the production process (e.g. in the production of beverages) and commodity flows that cannot be derived from monetary data. For example, a restaurant has a physical input of products but produces, according to National Accounts concepts, only (non-physical) services. The balancing item also represents all mass accumulated or extracted in the economy, for example the construction industry that produces buildings and infrastructure.

### 2.1.1.1 Schematic representation of physical supply and use tables, with exemplary data.

| Supply table        |                 | Industrial branches |        |        |       | Import | Cons. | Accum. | Envir. | Total |
|---------------------|-----------------|---------------------|--------|--------|-------|--------|-------|--------|--------|-------|
|                     |                 | Agric.              | Mining | Indus. | Serv. |        |       |        |        |       |
| <b>Products</b>     | Agricultural pr | 39                  | 0      | 0      | 0     | 24     |       |        |        | 63    |
|                     | Mining pr       | 0                   | 113    | 4      | 4     | 156    |       |        |        | 277   |
|                     | Industry pr.    | 0                   | 0      | 218    | 6     | 144    |       |        |        | 368   |
|                     | Services        | 0                   | 0      | 0      | 0     | 0      |       |        |        | 0     |
| <b>Residuals</b>    | Sol. waste      | 4                   | 0      | 48     | 7     | 1      | 8     | 1      |        | 69    |
|                     | Air emiss       | 10                  | 3      | 141    | 57    | 0      | 37    |        |        | 248   |
| <b>Resources</b>    |                 |                     |        |        |       |        |       |        | 148    | 148   |
| <b>Balance item</b> |                 | 14                  |        | 6      |       |        | 9     |        |        | 29    |
| <b>Total</b>        |                 | 67                  | 116    | 417    | 74    | 325    | 54    | 1      | 148    |       |

| Use table           |                 | Industrial branches |        |        |       | Final demand |        |        | Accum. | Total |
|---------------------|-----------------|---------------------|--------|--------|-------|--------------|--------|--------|--------|-------|
|                     |                 | Agric.              | Mining | Indus. | Serv. | Cons.        | Export | Inves. |        |       |
| <b>Products</b>     | Agricultural pr | 2                   | 0      | 35     | 1     | 6            | 19     | 0      |        | 63    |
|                     | Mining pr       | 2                   | 8      | 185    | 11    | 1            | 70     | 0      |        | 277   |
|                     | Industry pr.    | 12                  | 0      | 117    | 28    | 47           | 160    | 4      |        | 368   |
|                     | Services        | 0                   | 0      | 0      | 0     | 0            | 0      | 0      |        | 0     |
| <b>Residuals</b>    | Sol. waste      | 1                   | 0      | 43     | 12    | 0            | 13     | 0      |        | 69    |
| <b>Resources</b>    |                 | 40                  | 108    | 0      | 0     |              |        |        |        | 148   |
| <b>Balance item</b> |                 | 10                  | 0      | 37     | 22    |              |        |        | 208    | 277   |
| <b>Total</b>        |                 | 67                  | 116    | 417    | 74    | 54           | 262    | 4      | 208    |       |

The physical supply and use tables that are used to compile the MFM have a much higher level of detail than figure 2.1.1.1. At the most detailed level about 380 commodities, 130 industrial branches, sixteen types of solid waste and ten types of natural resources are distinguished (see annexes 3 to 6).

### 2.1.2 Compilation of the MFM 2010 tables

First, the monetary supply and use tables of the National Accounts are converted into physical (kilo) tables. However, before the monetary tables can be used some adjustments need to be made. As a result of international standards (SNA 2008), monetary flows related to goods sent abroad for processing are recorded as net flows. As a result the monetary figures no longer match the physical figures<sup>1</sup>. Therefore the monetary tables are adjusted in a way that they record gross flows in case of goods sent for processing. After these adjustments the conversion to physical figures for MFM 2010 is established by using price information from different sources including international trade statistics, production statistics and scanner data from

<sup>1</sup> For example Phillip Morris, a cigarette producing company in The Netherlands with Swiss owners. Before revision the value of the physical amounts of imported tobacco and exported cigarettes produced by Philip Morris were recorded. After revision only the export value of a processing service (approximately the difference between the value of the tobacco and the cigarettes) provided by Philip Morris to the Swiss owners has been recorded.

supermarkets. For some commodities, e.g. energy carriers, physical information was directly available and no conversion of monetary data was required. This procedure provides the physical supply and use of all commodities.

The next step involves the addition of material flows that have no monetary value. These are mainly flows between the environment and the economy (e.g. emissions to air and extraction of natural resources) but also flows within the economy itself, like the supply and use of solid waste. Data to estimate these flows are derived from several modules of the environmental accounts and other statistics. For example, data on waste are taken from the waste accounts and statistics on waste recycling industry. Data on extraction are taken from the material flow accounts.

Lastly, balancing items are added that reconcile the supply and use for each industrial branch. Some of the balancing items were derived from other variables, for instance the O<sub>2</sub> uptake which is estimated on the basis of fossil fuels used for combustion. The loss/gain of water during a production process was only roughly estimated on the basis of available data on the water content of products. In some cases the balancing item was a result of the difference between supply and use. This was, for example, the case in the construction industry. Here the balancing item represents the amount (i.e. weight) of buildings and infrastructural works constructed.

With all data in place, the supply and use tables were balanced. Large differences between supply and use were solved and removed after a critical investigation of the data. One of the things investigated was the relationship between the input and output for an industrial branch. For example, for a certain amount of meat produced, the input of a certain number of animals is expected. In the end the remaining small differences were automatically removed by computer software.

### **2.1.3 Extensions of the physical supply and use tables**

The physical supply and use tables are combined with other data in order to estimate indicators on resource use. First data are added on the country of origin and destination of all imported and exported commodities. Second, the traded commodities are allocated to their stage of production. Three levels of production are distinguished: raw materials, semi-finished products and finished products. Third, economic data is added like the value added and number of employees. Data from other environmental accounts, like the water supply and use tables, can also be linked with the MFM.

### **2.1.4 Data quality**

Supply and use tables are compiled at a high level of detail in order to maintain a sense for the processes underlying the data. Because the data are collected from different sources of unknown quality and often cannot be verified with alternative data sources, the detailed data are not always suitable for publication, although they can be useful for further analyses. The aggregated data and derived indicators on meso and macro level are considered to be reliable and do not breach confidentiality. These aggregated data provide qualitative and meaningful information on the physical (in kilos) material flows to, from and within the Dutch economy.



## **2.2 Time series Material Flow Monitor**

In addition to the MFM 2010, figures were compiled for 2008 and 2012. The MFM 2008 which was published in 2013 (Delahaye and Zult, 2013) was revised in order to match the 2010 and 2012 figures. The MFM 2010 and 2012 were set up according to the revised National Accounts. Every couple of years, the National Accounts are revised in order to adapt to a present-day economy. During the revision of the National Accounts, the monetary levels of the previous years are estimated again on the basis the revision figures in order to establish a consistent time series. As the MFM 2008 was based on the non-revised data, the MFM 2008 had to be revised in order to compare the monitors over time. Unfortunately, after revision, the commodity classification is less detailed for figures over 2008. As a result the MFM 2008 cannot be compared to the MFM 2010 and 2012 at the highest level of detail.

For the purpose of revision, the volume-index in the MFM 2008 and MFM 2012, calculated from the monetary supply and use tables, was applied to the physical figures of MFM 2010. Hence, the physically revised versions of MFM 2008 and MFM 2012 can be efficiently drawn from the MFM 2010 and the existing monetary supply and use tables. Again where physical information is available it was incorporated directly.

The compilation of MFM 2012 provided new insights that resulted in small data improvements throughout the physical supply and use tables. Most of the insights were due to additional data sources and resulted in taking different decisions while balancing the supply and use tables. These small improvements were implemented in all three monitors.

## 3. Results

Annexes 1a to 1f present aggregated physical supply and use tables for the years 2008, 2010 and 2012. The supply and use tables for materials, and the underlying MFM database from which these tables are derived, will be discussed first in this chapter. Next we discuss a selection of the indicators that can be derived from the MFM tables. These indicators deal with three key themes in the Dutch resource strategy, namely resource efficiency, resource dependency and the recycling of materials. This chapter concludes with an aggregated presentation of supply and use of water in the economy, which has been developed in accordance to the MFM.

### 3.1 Material Flow Monitor database

One of the outputs is the MFM database with detailed data on the supply and use of materials in the Dutch economy (see annexes 3 to 6 for an indication of the available level of detail). These tables are compiled at a high level of detail in order to maintain a sense of the process underlying the data. Because the data are assembled from different sources of unknown quality and often cannot be verified with alternative data sources, the detailed data are not always suitable for publication. Therefore, the MFM database cannot be considered to be official data from Statistics Netherlands. The same holds true for the water tables as the result is part of a feasibility study with uncertainties in the data remaining. The data should be considered preliminary and open for improvements. However, the database can be useful for analytical purposes. To this end, the database is available on request by any non-commercial institute with a public interest.

From the MFM database, aggregated supply and use tables suitable for publication can be derived. When comparing the aggregated MFMs over time, some interesting trends can be deduced. This section highlights a few of them:

The total supply of fossil energy carriers increases slightly over the years. This is due to an increase in imports and not domestic extraction. The domestic extraction of natural gas and petroleum by the oil and gas industry diminishes between 2008 and 2012. Not only the domestic extraction but also the domestic use of fossil fuels is lower in 2012 compared to earlier years, especially by the electricity industry. The same decreasing trend is noticeable for the 'manufacturing of coke and refined petroleum products' industry and the consumption of households. In Chapter 3.4 we will also see that the electricity industry used more biomass relative to fossil fuels in 2012 compared to 2008.

The supply and use tables seem to support the fact that the construction industry suffered from the financial crisis. A large part of the balancing item in the supply table represents the construction of buildings and infrastructure by this industry, which clearly decreased over the years. At the same time this industry used fewer other mining products (like sand and gravel) and other non-metallic mineral products (like glass and concrete). The numbers of employees show a similar pattern over time in the construction industry. Remarkably, the generation of waste, especially mineral waste, remained relatively stable. This is probably due to the fact that the construction branch involved with infrastructure (commissioned by the Dutch government) did not suffer much from the economic crisis and, at the same time, is responsible for the production of a large amount of mineral waste.

The above findings are only a few of the trends that can be deduced from the supply and use tables. Next we will discuss some of the indicators that can be derived from the tables.

## 3.2 Resource efficiency

The efficient use of resources is important, because natural resources are limited and extraction can be harmful to the environment. Companies also benefit from efficient resource use because it reduces costs and dependency on resources. From the physical supply and use tables resource efficiency can be estimated for different industrial branches.

One way to indicate the resource efficiency of an industrial branch is by calculating its material intensity, i.e. divide its materials used in kilos by its value added in euros. The material used consists of commodities, secondary resources and extracted resources. The higher the material intensity, the more kilos are required to generate one euro of value added. The differences in resource intensity between industrial branches are caused by the different types of materials used in their production processes. For instance, 'Other mining and quarrying' mainly uses abundant and cheap resources like sand and gravel while the 'Electronic equipment' industry uses more expensive scarce and semi-finished products.

Table 3.2.1 shows that for most industrial branches the material intensity does not change very much over time. It appears that in general industrial branches did not become more resource efficient in the period 2008-2012. However, large changes over time can be observed for the manufacturing of coke and refined petroleum products. This is mainly due to changes in value added over time. The economic crisis and drop in fuel prices led to a sharp decrease in value added in 2010. Electricity, gas and steam supplies show a decrease in material intensity over time. This is mainly due to the increased generation of wind energy. Production of wind energy does not require additional physical inputs, like coal or gas, but at the same time contributes to the value added.

### 3.2.1: Material intensity: kilo used material per euro value added

|   | 2008 | 2010 | 2012 |
|---|------|------|------|
| Agriculture, forestry and fishing                             | 6,6  | 6,4  | 7,1  |
| Mining industry   | 4,1  | 5,5  | 4,3  |
| Manufacture of food products, beverages and tobacco products  | 6,2  | 6,0  | 5,5  |
| Manufacture of textiles, wearing apparel and leather products | 0,8  | 0,7  | 0,7  |
| Manufacture of wood and paper products                        | 2,1  | 2,4  | 2,4  |
| Manufacture of coke and refined petroleum products            | 26,4 | 93,8 | 59,3 |
| Manufacture of chemicals and pharmaceutical products          | 4,5  | 5,2  | 5,3  |
| Manufacture of rubber and plastics products                   | 1,4  | 1,3  | 1,3  |
| Manufacture of other non-metallic mineral products            | 16,6 | 15,4 | 15,4 |
| Manufacture of basic metals                                   | 7,6  | 10,1 | 10,4 |
| Manufacture of metal products, except machinery and equipment | 0,8  | 0,8  | 0,8  |
| Manufacture of computer, electronic and optical products      | 0,1  | 0,1  | 0,2  |
| Manufacture of electrical equipment                           | 0,5  | 0,6  | 0,6  |
| Manufacture of machinery and equipment n.e.c.                 | 0,6  | 0,5  | 0,5  |
| Manufacture of transport equipment                            | 0,8  | 0,8  | 0,9  |
| Manufacture of furniture and other manufacturing a            | 0,3  | 0,2  | 0,2  |
| Electricity, gas and steam supply                             | 3,7  | 3,2  | 2,7  |
| Water treatment and supply; sewerage; waste treatment         | 7,4  | 7,5  | 7,6  |
| Construction  | 3,4  | 3,0  | 3,1  |
| Services  | 0,1  | 0,1  | 0,1  |

Another way to indicate the resource efficiency of an industrial branch is by estimating its material productivity. Material productivity is determined by dividing the amount of produced

products by the amount of used material. The closer the outcome is to one, the less used material is lost. During the production process materials can get lost in the form of waste or air emissions.

Similar to the material intensity, table 3.2.2 shows that for most industrial branches, material productivity did not change very much over time. All in all, from the figures presented in this paragraph a change in resource efficiency in time is not apparent.

### 3.2.2: Material productivity: kilo product per kilo used material

|   | 2008 | 2010 | 2012 |
|---|------|------|------|
| Mining industry   | 0,99 | 0,99 | 0,99 |
| Manufacture of food products, beverages and tobacco products  | 0,69 | 0,68 | 0,69 |
| Manufacture of textiles, wearing apparel and leather products | 0,80 | 0,79 | 0,79 |
| Manufacture of wood and paper products                        | 0,85 | 0,85 | 0,87 |
| Manufacture of coke and refined petroleum products            | 0,93 | 0,94 | 0,93 |
| Manufacture of chemicals and pharmaceutical products          | 0,89 | 0,89 | 0,90 |
| Manufacture of rubber and plastics products                   | 0,92 | 0,92 | 0,94 |
| Manufacture of other non-metallic mineral products            | 0,89 | 0,87 | 0,89 |
| Manufacture of basic metals                                   | 0,72 | 0,74 | 0,76 |
| Manufacture of metal products, except machinery and equipment | 0,88 | 0,88 | 0,88 |
| Manufacture of computer, electronic and optical products      | 0,76 | 0,69 | 0,72 |
| Manufacture of electrical equipment                           | 0,92 | 0,90 | 0,92 |
| Manufacture of machinery and equipment n.e.c.                 | 0,94 | 0,93 | 0,94 |
| Manufacture of transport equipment                            | 0,93 | 0,94 | 0,95 |
| Manufacture of furniture and other manufacturing              | 0,56 | 0,55 | 0,49 |

## 3.3 Resource dependency

With regard to resource dependency, several relevant indicators can be derived from the MFM. The following indicators are discussed in this chapter: self-sufficiency of resources, production stage of imported goods and imports of raw materials per country.

A country is self-sufficient when it is independent from other countries. The dependency on other countries for resources, shown in table 3.3.1, is indicated as the share of domestic resource consumption covered by domestic extraction of natural resources. Independence from other countries implies that the domestic material consumption (DMC = import plus extraction minus export) is covered completely by domestic material extraction. Notice that only the import and export of raw materials are taken into account in the figures. A study (in Dutch) by TNO investigates the dependency of our economy on 64 specific (scarce) materials (Bastein and Rietveld, 2015).

With regard to metal ores, the Netherlands is fully dependent on other countries as no ore is extracted domestically. Consumption of biomass can be covered to around 80% by domestic extraction. Different goods may have a different rate of dependency because some are domestically extracted while some are not. The consumption of biomass includes imported soybeans (for animal feed) while a major part of Dutch extraction consists of potatoes (and not soybeans). The same applies for fossil fuels: extraction of fossil energy carriers consists mainly of natural gas while Dutch consumption of fossil energy carriers consists mainly of crude oil and crude oil products. These different types of fossil energy carriers are no substitutes for each other.

For non-metal minerals there is a sharp increase in the dependency between 2008 and 2010. This is due to a reduced consumption of minerals. The level of extraction remained the same but the import of minerals dropped to a large extent. The reduced building activity as a result of the economic crisis reduced the need for mineral resources. A lower demand for minerals resulted in lower imports.

### 3.3.1: Percentage of resource consumption covered by domestic extraction

|                               | 2008 | 2010 | 2012 |
|-------------------------------|------|------|------|
| <b>Biomass</b>                | 81   | 82   | 82   |
| <b>Fossil energy carriers</b> | 62   | 60   | 60   |
| <b>Metals</b>                 | 0    | 0    | 0    |
| <b>Minerals</b>               | 51   | 61   | 61   |

Imported products can be allocated to different processing stages such as raw materials, semi-finished products and final products. Final products (like cars) are used for consumption or capital formation while semi-finished and raw materials (for example respectively metal sheets and iron ore) are used as input in the production processes. Raw materials form half of the total imports (including re-exports). Most raw materials are energy carriers used to produce motor fuels. Most of the raw materials are imported from other European countries<sup>2</sup>. The largest amounts of raw materials from imports outside of Europe come from Africa, the Middle East and Central and South America. Raw materials imported from South and Central America are mainly coal and iron ore. Crude oil is imported from the Middle East and Africa.

### 3.3.2. Imports (including re-exports) from outside the EU by stage of processing, 2012.

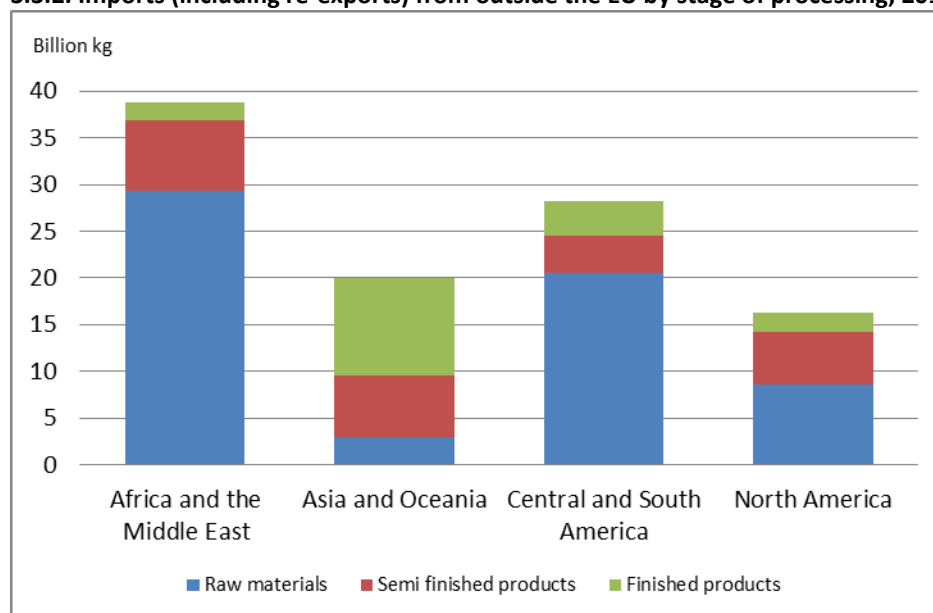


Figure 3.3.2 shows the import (including re-exports) of goods by stage of production from different regions outside the European Union. Only figures for 2012 are presented because the overall picture did not change very much between 2008 and 2012. Due to the economic crisis

<sup>2</sup> European countries are defined according to the classification used by the United Nations. According to this classification Russia is allocated to Europe.

imports from outside the EU were lowest in 2010. The drop in 2010 was mainly caused by raw materials (coal and iron ore) from Central and South America. Another interesting finding is the increase, from 47 percent in 2008 to 58 percent in 2012, of the share of finished products from Asia and Oceania. A large part of these products consist of palm oil from Indonesia and Malaysia.

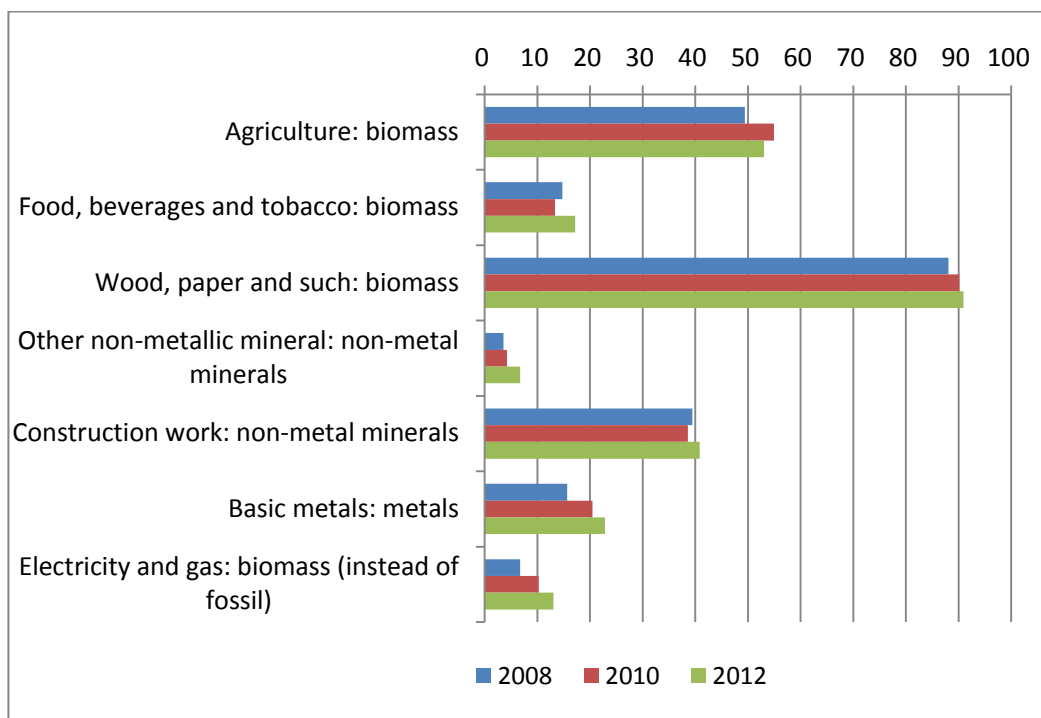
### 3.4 Recycling materials

Recycling materials reduces the depletion of natural resource reserves. This is an important aspect in achieving a more circular economy. Recycling also reduces the dependency on countries with natural resource reserves. Therefore, businesses should pay more attention to the recycling of resources / materials and the possibilities to limit the amount of waste generated in their production process.

#### *Secondary resources used as input for the production*

Figure 3.4.1 shows the share of secondary resources in total use of resources for production for a few economic sectors. Secondary resources cover solid waste and products from the industry 'recovery of sorted materials (NACE 3832)'. Only the type of material considered an important resource input in the production process for the concerned economic sectors is taken into account (i.e. biomass, metals, non-metal minerals and fossil fuels against biomass). Hence, in agriculture, especially animal husbandry, a lot of organic matter is used. The same is true for the 'manufacturing of food, beverages and tobacco products' and the 'manufacturing of wood, paper and products thereof'. In the 'manufacturing of other non-metallic mineral products' industry the primary resource input consists of non-metal minerals, like sand and gravel. The same goes for the construction industry. Metals are used in the 'manufacturing of basic metals' and fossil energy carriers are especially used by electricity producers. For the latter, all biomass is conceived as a secondary resource. According to figure 3.4.1, the 'manufacturing of wood and paper' uses relatively a lot of secondary biomass resources, while 'manufacturing of other non-metallic mineral products' uses relatively few secondary mineral resources. For the latter a trend towards the use of more secondary input is however apparent. The same is true for the 'manufacturing of basic metals', the 'manufacturing of wood and paper' and to some extent for agriculture. A clear trend in the 'manufacturing of food, beverages and tobacco products' and the construction industry is missing. With regard to the production of electricity, gas and steam it seems there is an increase in the input of biomass relative to fossil energy carriers.

#### **3.4.1. Share secondary resources in total resources per main material type for different manufactures.**



#### Waste

Figures on the amount of waste that is produced per kilo of produced product can be used to measure how much of the used resources turns into waste. For the chemical industry the percentage waste per kilo product is relatively low, while it is relatively high for the 'manufacturing of food, beverages and tobacco products' and the 'manufacturing of basic metals'. However, this comparison between economic sectors is hardly meaningful, because different kinds of materials and different kinds of processes are involved. Instead, a comparison over time will give an indication of the performance of each economic industry. Table 3.4.2. shows the percentage of waste per kilo product in time for each economic industry. In general the amount of waste per kilo product appears to be declining slightly over time. This is especially the case in the 'manufacturing of wood and paper products' and 'manufacturing of basic metals' industry. The production of waste fell more sharply than the production of goods. In the case of the 'manufacturing of basic metals' industry the production of non-metal mineral waste decreased between 2008 and 2010.

#### 3.4.2. Percentage waste per unit produced product

|  | 2008 | 2010 | 2012 |
|--|------|------|------|
| Agriculture, forestry and fishing                        | 8    | 10   | 10   |
| Mining industry  | 0    | 0    | 0    |
| Manufacture of food products, beverages and tobacco      | 14   | 15   | 15   |
| Manufacture of textiles, wearing apparel and leather     | 14   | 12   | 14   |
| Manufacture of wood and paper products                   | 12   | 11   | 9    |
| Manufacture of coke and refined petroleum products       | 0    | 1    | 1    |
| Manufacture of chemicals and pharmaceutical products     | 3    | 2    | 2    |
| Manufacture of rubber and plastics products              | 6    | 6    | 4    |
| Manufacture of other non-metallic mineral products       | 3    | 3    | 3    |
| Manufacture of basic metals                              | 17   | 13   | 13   |
| Manufacture of metal products                            | 10   | 9    | 9    |
| Manufacture of computer, electronic and optical products | 5    | 4    | 5    |
| Manufacture of electrical equipment                      | 4    | 5    | 4    |
| Manufacture of machinery and equipment n.e.c.            | 4    | 5    | 4    |
| Manufacture of transport equipment                       | 6    | 4    | 3    |

A similar analysis can be conducted for households, but instead of looking at the production one has to look at the consumption side. The use of fossil energy carriers is not considered here because these are converted into air emissions instead of solid waste. Compared to the economic industries above, the production of waste by households is relatively high. It is interesting to note that the waste per kilo consumption by households decreased in time, from 37 percent in 2008 to 32 percent in 2012. On the other hand consumption remained stable over the years. Hence, it seems that there was a decrease in the production of waste by households. More detailed data indicates that the decrease can be mainly attributed to a strong reduction in the waste of minerals and mixed waste.

### 3.4.3. Percentage of waste per kilo household consumption

|            | Waste per kilo consumption (%) |      |      |
|------------|--------------------------------|------|------|
|            | 2008                           | 2010 | 2012 |
| Households | 37                             | 34   | 32   |

## 3.5 Physical water flow accounts (PWFA) linked to the MFM

Water in various forms plays an important role in economic activities and performance. To reduce the burden to the (water) environment, the abstraction from scarce water resources and the water used by economic activities including households can be monitored. With regard to the use of water resources from the inland water system, the gained efficiency may also reduce the dependency and burden on countries where (fresh) water is a much scarcer resource. Industries could use the different water resources more efficiently, for example via recycling of water.

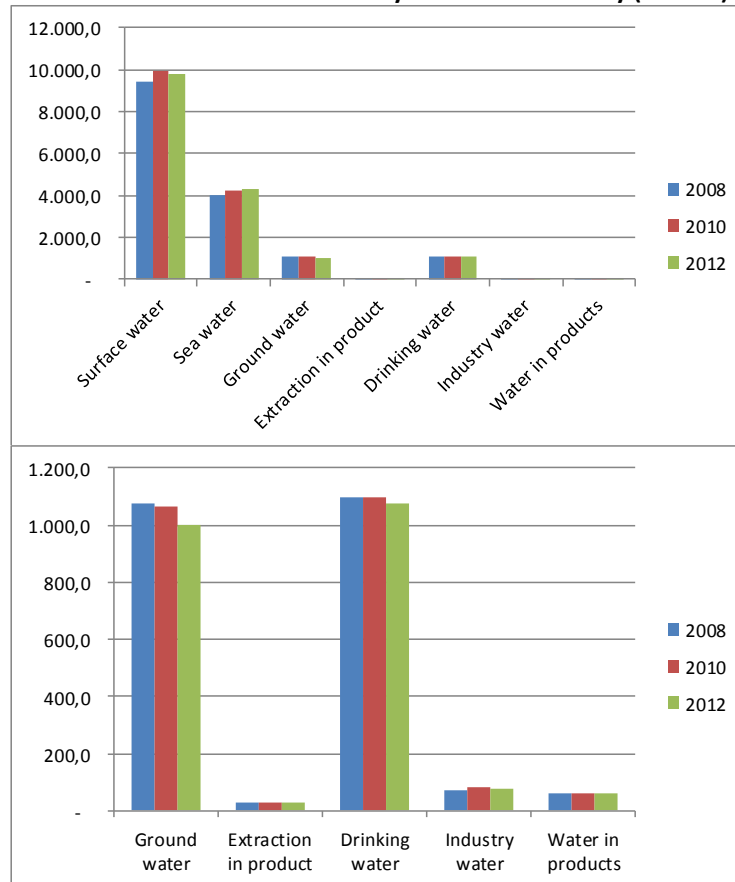
### *Water Supply and Use by the Dutch economic activity*

The physical supply and use of water by the Dutch economy is shown by the water accounting tables in the annexes 2a to 2F. These are aggregated supply and use tables that can be linked to the MFM and to the National Accounts, allowing for detailed environmental economic analysis. Each table in annex 2 provides an aggregated overview of economic sectors (see annex 4 for available detail) and the flows from the environment to the economy, within the economy



between the different industries and households, including waste water, and in the end the return flows back to the environment again, the inland water system and the atmosphere. Different types of water are dealt with. A more comprehensive and complete overview for water supply and use can be found in the underlying water accounts database. Figure 3.5.1 shows an example of the type of data that can be derived from the accounting tables. It shows that large flows of both marine and fresh water are abstracted from the surface water bodies. It also shows the relative importance of (fresh) groundwater abstractions, water extracted with other products and some relevant flows within the economy. The second part shows the different flows without the large surface water flows. As information is available at detailed industry level, the figure can also be made for uptake and use by the different industries and other analysis of water in its economic use.

### 3.5.1. Water use and abstraction by the Dutch Economy (mln m<sup>3</sup>)



## 4. Conclusions, discussion and future work

This report presents the Material Flows Monitors (MFM) 2008, 2010 and 2012. Also included are the physical water flow accounting tables. Material flows to, from and within our economy are recorded in physical supply and use tables (in kilos, water in m<sup>3</sup>) that are set up according to the National Accounts framework (see annex 1 and 2). For analytical purposes more detailed supply and use tables are available on request. The amount details available in these tables is presented in annexes 3 to 6 (in Dutch).

From the supply and use tables, meso and macro indicators were derived to support resource policies. Indicators concern issues such as efficient material use, recycling of materials and dependency on resources. The three MFMs are compared to get an idea of the development over time. In general, resource efficiency has not changed much over time. The same goes for resource dependency, although the dependency on minerals appears to have declined due to the economic crisis and relatively more finished products are imported from Asia. Regarding the recycling of materials some improvements over time can be observed. It appears that the use of secondary materials in the production process increased and the production of waste per unit produced product slightly declined. Furthermore, households produce less waste per kilo consumed good over time.

In 2016 we plan to compile the MFM for 2014. This will further provide better comparisons over time. We plan to include material flows in raw material equivalents by using both the Eurostat coefficients and the TNO coefficients. Furthermore we try to estimate the material stock in our economy. This will give an impression of the potential urban mine available in the Netherlands.

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## Annex 1a Supply table, mln. kilos, 2008

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing equipment | Electricity, gas and steam supply | Water treatment and supply; sewerage; waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | Import  | Flows from the environment | Total     |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|---------|----------------------------|-----------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24      | 25                         | 26        |
| 1 Products of agriculture, forestry and fishing   | 27 190                            | 0               | 1  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 31   | 0                                 | 0  | 0            | 0        | 27 222            |                        |              | 25 908  |                            | 53 130    |
| 2 Products of cattle breeding                     | 15 914                            | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 0        | 15 914            |                        |              | 951     |                            | 16 865    |
| 3 Fossil energy carriers                          | 0                                 | 67 147          | 0  | 0   | 0                                      | 13   | 0  | 0   | 0  | 992                         | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 89                                | 0  | 0            | 0        | 68 241            |                        |              | 97 045  |                            | 165 286   |
| 4 Other mining products                           | 0                                 | 20 415          | 942  | 0   | 0                                      | 0  | 4 389  | 186   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 14 760   | 4 316        | 0        | 45 008            |                        |              | 65 204  |                            | 110 212   |
| 5 Fish and meat products                          | 174                               | 0               | 3 960  | 1   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 5        | 4 140             |                        |              | 2 588   |                            | 6 728     |
| 6 Potato, vegetable and fruit products            | 0                                 | 0               | 4 224  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 739      | 4 963             |                        |              | 3 929   |                            | 8 892     |
| 7 Dairy products                                  | 37                                | 0               | 5 169  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 48       | 5 254             |                        |              | 2 168   |                            | 7 422     |
| 8 Grain mill and starch products                  | 0                                 | 0               | 4 436  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 98       | 4 534             |                        |              | 3 393   |                            | 7 927     |
| 9 Other food products                             | 0                                 | 249             | 27 279   | 0   | 0                                      | 0  | 570  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 81       | 28 179            |                        |              | 6 439   |                            | 34 618    |
| 10 Beverages and tobacco products                 | 0                                 | 0               | 6 512  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 35       | 6 547             |                        |              | 3 082   |                            | 9 629     |
| 11 Textiles, wearing apparel and leather products | 0                                 | 0               | 0  | 669   | 11                                     | 0  | 64   | 1   | 0  | 0                           | 4   | 0  | 0                                   | 1   | 0                                  | 3  | 0                                 | 0  | 0            | 37       | 790               |                        |              | 1 572   |                            | 2 362     |
| 12 Wood products, except furniture                | 0                                 | 0               | 0  | 0   | 2 202                                  | 0  | 0  | 164   | 1  | 0                           | 23  | 0  | 0                                   | 0   | 0                                  | 137  | 0                                 | 0  | 1            | 70       | 2 598             |                        |              | 4 782   |                            | 7 380     |
| 13 Printing and paper products                    | 0                                 | 0               | 0  | 1   | 5 688                                  | 0  | 0  | 25  | 0  | 4                           | 6   | 0  | 0                                   | 0   | 0                                  | 9  | 0                                 | 0  | 0            | 43       | 5 776             |                        |              | 7 266   |                            | 13 042    |
| 14 Coke and refined petroleum products            | 0                                 | 0               | 0  | 0   | 0                                      | 57 769   | 4 552  | 0   | 0  | 2 665                       | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 5 917    | 70 903            |                        |              | 63 783  |                            | 134 686   |
| 15 Chemical and pharmaceutical products           | 10                                | 217             | 293  | 3   | 0                                      | 175  | 41 022   | 39  | 3  | 59                          | 0   | 4  | 52                                  | 6   | 0                                  | 28   | 0                                 | 707  | 0            | 130      | 42 748            |                        |              | 35 009  |                            | 77 757    |
| 16 Rubber and plastic products                    | 0                                 | 0               | 0  | 1   | 25                                     | 0  | 37   | 2 682                                       | 6  | 0                           | 17  | 4  | 19                                  | 9   | 0                                  | 27   | 0                                 | 0  | 0            | 10       | 2 837             |                        |              | 3 069   |                            | 5 906     |
| 17 Other non-metallic mineral products            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 1  | 31  | 32 410   | 42                          | 14  | 24   | 21                                  | 0   | 0                                  | 2  | 0                                 | 0  | 221          | 299      | 33 065            |                        |              | 11 466  |                            | 44 531    |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 10 219                      | 337   | 0  | 0                                   | 11  | 0                                  | 0  | 0                                 | 0  | 0            | 0        | 10 567            |                        |              | 13 257  |                            | 23 824    |
| 19 Metal products, except machinery               | 0                                 | 0               | 0  | 1   | 65                                     | 0  | 0  | 24  | 0  | 64                          | 4 066   | 7  | 21                                  | 109   | 7                                  | 39   | 0                                 | 0  | 264          | 34       | 4 701             |                        |              | 2 808   |                            | 7 509     |
| 20 Machinery and equipment                        | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 10  | 0  | 68                          | 181   | 445  | 1 263                               | 3 657   | 29                                 | 45   | 0                                 | 0  | 0            | 306      | 6 004             |                        |              | 11 231  |                            | 17 235    |
| 21 Transport equipment                            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 12  | 0  | 43                          | 30  | 0  | 0                                   | 6   | 3 540                              | 15   | 0                                 | 0  | 0            | 9        | 3 655             |                        |              | 3 475   |                            | 7 130     |
| 22 Furniture and other manufactured goods         | 0                                 | 0               | 0  | 5   | 1 308                                  | 0  | 1  | 0   | 0  | 0                           | 11  | 1  | 0                                   | 1   | 0                                  | 892  | 0                                 | 0  | 0            | 868      | 3 087             |                        |              | 1 661   |                            | 4 748     |
| 23 Total row 1-22                                 | 43 325                            | 88 028          | 52 816   | 681   | 9 299                                  | 57 957   | 50 636   | 3 174                                       | 32 420   | 14 156                      | 4 689   | 485  | 1 376                               | 3 800   | 3 576                              | 1 228  | 89                                | 707  | 15 246       | 13 045   | 396 733           |                        |              | 370 086 |                            | 766 819   |
| 24 Waste and recycled products                    | 3 478                             | 65              | 7 323  | 92  | 1 119                                  | 164  | 1 511  | 178   | 941  | 2 431                       | 457   | 25   | 59                                  | 153   | 206                                | 319  | 1 314                             | 18 016   | 22 239       | 5 831    | 65 921            | 10 704                 | 4 551        | 16 422  | 0                          | 97 598    |
| 25 Extraction                                     |                                   |                 |  |   |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |              |         | 139 046                    | 139 046   |
| 26 Balancing item                                 | 57 683                            | 3 880           | 22 186   | 391   | 2 620                                  | 17 581   | 26 573   | 395   | 5 977  | 9 590                       | 784   | 224  | 329                                 | 489   | 340                                | 1 308  | 80 236                            | 14 236   | 79 063       | 89 212   | 413 097           | 77 761                 | 0            |         | 270 975                    | 761 833   |
| 27 Total  | 104 486                           | 91 973          | 82 325   | 1 164   | 13 038                                 | 75 702   | 78 720   | 3 747                                       | 39 338   | 26 177                      | 5 930   | 734  | 1 764                               | 4 442   | 4 122                              | 2 855  | 81 639                            | 32 959   | 116 548      | 108 088  | 875 751           | 88 465                 | 4 551        | 386 508 | 410 021                    | 1 765 296 |
| Value added (mln euro)                            | 10 099                            | 21 507          | 11 136   | 1 116   | 5 179                                  | 2 348  | 12 676   | 2 531                                       | 2 202  | 2 582                       | 6 257   | 4 675  | 2 762                               | 7 264   | 4 604                              | 8 567  | 5 633                             | 3 684  | 33 369       | 422 696  | 570 887           |                        |              |         |                            |           |
| Labour volume x1000 (fte)                         | 170                               | 7               | 111  | 17  | 71                                     | 6  | 59   | 31  | 27   | 22                          | 91  | 27   | 23                                  | 74  | 38                                 | 176  | 22                                | 29   | 538          | 5 640    | 7 181             |                        |              |         |                            |           |

## Annex 1b Use table, mln. kilos, 2008

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing products | Electricity, gas and steam supply | Water treatment and supply, sewerage, waste treatment and disposal | Construction | Services | Total column 1–20 | Consumption households | Accumulation & other final demand | Export  | Flows to the environment | Total     |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|---|-----------------------------------|--|--------------|----------|-------------------|------------------------|-----------------------------------|---------|--------------------------|-----------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16  | 17                                | 18   | 19           | 20       | 21                | 22                     | 23                                | 24      | 26                       | 27        |
| 1 Products of agriculture, forestry and fishing   | 5 363                             | 0               | 26 563   | 11  | 370                                    | 0  | 31   | 52  | 0  | 0                           | 0   | 0  | 1                                   | 0   | 0                                  | 1   | 0                                 | 0  | 14           | 1 651    | 34 057            | 2 401                  | 124                               | 16 548  |                          | 53 130    |
| 2 Products of cattle breeding                     | 450                               | 0               | 14 511   | 2   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 0  | 0            | 290      | 15 253            | 106                    | 84                                | 1 422   |                          | 16 865    |
| 3 Fossil energy carriers                          | 3 380                             | 860             | 1 630  | 84  | 566                                    | 55 848   | 9 257  | 68  | 617  | 5 164                       | 149   | 24   | 63                                  | 82  | 65                                 | 72  | 18 524                            | 73   | 213          | 4 956    | 101 695           | 8 039                  | - 39                              | 55 591  |                          | 165 286   |
| 4 Other mining products                           | 1 084                             | 3 265           | 42   | 11  | 32                                     | 0  | 1 807  | 5   | 20 634   | 8 188                       | 10  | 0  | 0                                   | 11  | 0                                  | 113   | 0                                 | 15   | 45 510       | 5 303    | 86 030            | 176                    | - 809                             | 24 815  |                          | 110 212   |
| 5 Fish and meat products                          | 0                                 | 0               | 1 152  | 59  | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 0  | 0            | 544      | 1 755             | 965                    | - 17                              | 4 025   |                          | 6 728     |
| 6 Potato, vegetable and fruit products            | 5                                 | 0               | 1 152  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 0  | 0            | 982      | 2 139             | 1 781                  | 36                                | 4 936   |                          | 8 892     |
| 7 Dairy products                                  | 4                                 | 0               | 2 324  | 0   | 0                                      | 0  | 134  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 0  | 0            | 619      | 3 081             | 1 931                  | 4                                 | 2 406   |                          | 7 422     |
| 8 Grain mill and starch products                  | 109                               | 0               | 4 145  | 0   | 119                                    | 0  | 24   | 2   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 1  | 37           | 228      | 4 665             | 184                    | 79                                | 2 999   |                          | 7 927     |
| 9 Other food products                             | 10 153                            | 0               | 6 612  | 0   | 11                                     | 0  | 187  | 19  | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 46                                | 0  | 0            | 1 079    | 18 107            | 3 752                  | 113                               | 12 646  |                          | 34 618    |
| 10 Beverages and tobacco products                 | 5                                 | 0               | 419  | 0   | 3                                      | 0  | 9  | 5   | 0  | 0                           | 13  | 5  | 6                                   | 7   | 4                                  | 5   | 0                                 | 0  | 28           | 3 308    | 3 817             | 2 249                  | 83                                | 3 480   |                          | 9 629     |
| 11 Textiles, wearing apparel and leather products | 7                                 | 0               | 0  | 230   | 49                                     | 0  | 7  | 22  | 5  | 0                           | 6   | 1  | 0                                   | 3   | 2                                  | 42  | 0                                 | 0  | 7            | 90       | 471               | 560                    | 117                               | 1 214   |                          | 2 362     |
| 12 Wood products, except furniture                | 81                                | 2               | 189  | 4   | 1 233                                  | 1  | 104  | 67  | 73   | 16                          | 171   | 10   | 20                                  | 88  | 100                                | 454   | 2                                 | 10   | 1 872        | 1 008    | 5 505             | 260                    | 190                               | 1 425   |                          | 7 380     |
| 13 Printing and paper products                    | 21                                | 1               | 862  | 18  | 4 880                                  | 3  | 102  | 79  | 31   | 25                          | 65  | 41   | 8                                   | 67  | 24                                 | 91  | 5                                 | 7  | 10           | 1 787    | 8 127             | 374                    | - 1                               | 4 542   |                          | 13 042    |
| 14 Coke and refined petroleum products            | 688                               | 78              | 51   | 5   | 22                                     | 5 545  | 12 803   | 7   | 100  | 2 339                       | 52  | 7  | 520                                 | 21  | 39                                 | 173   | 370                               | 71   | 1 416        | 17 725   | 42 032            | 6 235                  | 1 996                             | 84 423  |                          | 134 686   |
| 15 Chemical and pharmaceutical products           | 1 267                             | 49              | 467  | 287   | 403                                    | 663  | 26 510   | 1 952                                       | 211  | 96                          | 170   | 125  | 140                                 | 137   | 82                                 | 261   | 5                                 | 210  | 515          | 1 468    | 35 018            | 653                    | 724                               | 41 362  |                          | 77 757    |
| 16 Rubber and plastic products                    | 103                               | 1               | 464  | 18  | 239                                    | 3  | 181  | 290   | 160  | 6                           | 92  | 17   | 76                                  | 128   | 166                                | 118   | 3                                 | 3  | 688          | 625      | 3 381             | 223                    | 61                                | 2 241   |                          | 5 906     |
| 17 Other non-metallic mineral products            | 72                                | 0               | 433  | 0   | 60                                     | 0  | 198  | 8   | 6 373  | 81                          | 86  | 18   | 83                                  | 15  | 36                                 | 61  | 22                                | 7  | 29 385       | 2 233    | 39 171            | 680                    | 399                               | 4 281   |                          | 44 531    |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 1   | 14                                     | 0  | 107  | 109   | 245  | 1 709                       | 3 749   | 91   | 335                                 | 1 754   | 754                                | 267   | 0                                 | 3  | 689          | 264      | 10 091            | 0                      | 19                                | 13 714  |                          | 23 824    |
| 19 Metal products, except machinery               | 5                                 | 0               | 222  | 0   | 41                                     | 2  | 54   | 3   | 14   | 2                           | 651   | 33   | 6                                   | 744   | 466                                | 255   | 17                                | 2  | 1 994        | 356      | 4 867             | 138                    | 284                               | 2 220   |                          | 7 509     |
| 20 Machinery and equipment                        | 6                                 | 3               | 11   | 0   | 1                                      | 1  | 4  | 1   | 1  | 2                           | 75  | 226  | 239                                 | 685   | 330                                | 189   | 1                                 | 2  | 523          | 444      | 2 744             | 383                    | 3 047                             | 11 061  |                          | 17 235    |
| 21 Transport equipment                            | 1                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 2   | 0  | 1                                   | 0   | 1 762                              | 1   | 0                                 | 0  | 9            | 294      | 2 070             | 449                    | 2 255                             | 2 356   |                          | 7 130     |
| 22 Furniture and other manufactured goods         | 1                                 | 3               | 74   | 6   | 16                                     | 2  | 16   | 3   | 3  | 2                           | 11  | 37   | 5                                   | 16  | 19                                 | 103   | 96                                | 2  | 60           | 1 363    | 1 838             | 1 150                  | 778                               | 982     |                          | 4 748     |
| 23 Total row 1–22                                 | 22 805                            | 4 262           | 61 323   | 736   | 8 059                                  | 62 068   | 51 535   | 2 692                                       | 28 467   | 17 630                      | 5 302   | 635  | 1 503                               | 3 758   | 3 849                              | 2 206   | 19 091                            | 406  | 82 970       | 46 617   | 425 914           | 32 689                 | 9 527                             | 298 689 |                          | 766 819   |
| 24 Waste and recycled products                    | 5 705                             | 0               | 7 097  | 114   | 2 880                                  | 0  | 519  | 743   | 1 842  | 2 114                       | 0   | 0  | 0                                   | 298   | 0                                  | 0   | 1 696                             | 26 695   | 29 825       | 0        | 79 528            |                        | 2 365                             | 15 705  | 0                        | 97 598    |
| 25 Extraction                                     | 38 103                            | 84 616          | 1 031  | 0   | 0                                      | 0  | 4 921  | 0   | 6 171  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0   | 0                                 | 0  | 0            | 4 204    | 139 046           |                        |                                   |         |                          | 139 046   |
| 26 Balancing item                                 | 37 873                            | 3 095           | 12 874   | 314   | 2 099                                  | 13 634   | 21 745   | 312   | 2 858  | 6 433                       | 628   | 99   | 261                                 | 386   | 273                                | 649   | 60 852                            | 5 858  | 3 753        | 57 267   | 231 263           | 55 776                 | 113 121                           |         | 361 673                  | 761 833   |
| 27 Total  | 104 486                           | 91 973          | 82 325   | 1 164   | 13 038                                 | 75 702   | 78 720   | 3 747                                       | 39 338   | 26 177                      | 5 930   | 734  | 1 764                               | 4 442   | 4 122                              | 2 855   | 81 639                            | 32 959   | 116 548      | 108 088  | 875 751           | 88 465                 | 125 013                           | 314 394 | 361 673                  | 1 765 296 |
| Value added (mln euro)                            | 10 099                            | 21 507          | 11 136   | 1 116   | 5 179                                  | 2 348  | 12 676   | 2 531                                       | 2 202  | 2 582                       | 6 257   | 4 675  | 2 762                               | 7 264   | 4 604                              | 8 567   | 5 633                             | 3 684  | 33 369       | 422 696  | 570 887           |                        |                                   |         |                          |           |
| Labour volume x1000 (fte)                         | 170                               | 7               | 111  | 17  | 71                                     | 6  | 59   | 31  | 27   | 22                          | 91  | 27   | 23                                  | 74  | 38                                 | 176   | 22                                | 29   | 538          | 5 640    | 7 181             |                        |                                   |         |                          |           |

## Annex 1c Supply table, mln. kilos, 2010

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing equipment | Electricity, gas and steam supply | Water treatment and supply; sewerage; waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | Import  | Flows from the environment | Total     |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|---------|----------------------------|-----------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24      | 25                         | 26        |
| 1 Products of agriculture, forestry and fishing   | 26 617                            | 0               | 2  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 28   | 0                                 | 0  | 0            | 0        | 26 647            |                        |              | 25 638  |                            | 52 285    |
| 2 Products of cattle breeding                     | 16 513                            | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 0        | 16 513            |                        |              | 1 167   |                            | 17 680    |
| 3 Fossil energy carriers                          | 0                                 | 70 183          | 0  | 0   | 0                                      | 25   | 0  | 0   | 0  | 928                         | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 102                               | 0  | 0            | 0        | 71 238            |                        |              | 98 283  |                            | 169 521   |
| 4 Other mining products                           | 0                                 | 23 427          | 939  | 0   | 0                                      | 0  | 4 173  | 94  | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 12 182   | 3 863        | 0        | 44 678            |                        |              | 51 955  |                            | 96 633    |
| 5 Fish and meat products                          | 132                               | 0               | 4 036  | 1   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 19       | 4 188             |                        |              | 2 917   |                            | 7 105     |
| 6 Potato, vegetable and fruit products            | 0                                 | 0               | 4 266  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 777      | 5 043             |                        |              | 3 995   |                            | 9 038     |
| 7 Dairy products                                  | 48                                | 0               | 4 909  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 105      | 5 062             |                        |              | 2 290   |                            | 7 352     |
| 8 Grain mill and starch products                  | 0                                 | 0               | 4 475  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 105      | 4 580             |                        |              | 3 422   |                            | 8 002     |
| 9 Other food products                             | 0                                 | 270             | 26 689   | 0   | 1                                      | 0  | 617  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 226      | 27 803            |                        |              | 7 384   |                            | 35 187    |
| 10 Beverages and tobacco products                 | 0                                 | 0               | 6 240  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 36       | 6 276             |                        |              | 3 238   |                            | 9 514     |
| 11 Textiles, wearing apparel and leather products | 0                                 | 0               | 0  | 577   | 9                                      | 0  | 39   | 1   | 0  | 3                           | 0   | 0  | 1                                   | 0   | 3                                  | 0  | 0                                 | 0  | 0            | 36       | 669               |                        |              | 1 623   |                            | 2 292     |
| 12 Wood products, except furniture                | 0                                 | 0               | 0  | 0   | 2 215                                  | 0  | 0  | 148   | 1  | 0                           | 11  | 0  | 0                                   | 0   | 0                                  | 127  | 0                                 | 0  | 1            | 71       | 2 574             |                        |              | 3 875   |                            | 6 449     |
| 13 Printing and paper products                    | 0                                 | 0               | 0  | 1   | 5 412                                  | 0  | 0  | 17  | 0  | 6                           | 5   | 0  | 0                                   | 0   | 0                                  | 9  | 0                                 | 0  | 0            | 46       | 5 496             |                        |              | 6 554   |                            | 12 050    |
| 14 Coke and refined petroleum products            | 0                                 | 0               | 0  | 0   | 0                                      | 58 453   | 2 491  | 0   | 0  | 2 547                       | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 8 938    | 72 429            |                        |              | 68 313  |                            | 140 742   |
| 15 Chemical and pharmaceutical products           | 5                                 | 255             | 329  | 1   | 6                                      | 320  | 44 071   | 39  | 3  | 37                          | 3   | 8  | 59                                  | 6   | 0                                  | 28   | 0                                 | 548  | 0            | 521      | 46 239            |                        |              | 35 757  |                            | 81 996    |
| 16 Rubber and plastic products                    | 0                                 | 0               | 0  | 2   | 24                                     | 0  | 41   | 2 433                                       | 6  | 6                           | 15  | 3  | 14                                  | 8   | 0                                  | 26   | 0                                 | 0  | 0            | 39       | 2 617             |                        |              | 3 477   |                            | 6 094     |
| 17 Other non-metallic mineral products            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 2  | 31  | 24 907   | 36                          | 18  | 27   | 39                                  | 0   | 0                                  | 1  | 0                                 | 0  | 181          | 411      | 25 653            |                        |              | 9 010   |                            | 34 663    |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 2   | 4                                      | 0  | 1  | 0   | 0  | 10 310                      | 399   | 0  | 9                                   | 9   | 2                                  | 0  | 0                                 | 0  | 0            | 21       | 10 757            |                        |              | 11 558  |                            | 22 315    |
| 19 Metal products, except machinery               | 0                                 | 0               | 11   | 3   | 41                                     | 0  | 0  | 20  | 12   | 62                          | 3 738   | 6  | 18                                  | 90  | 19                                 | 37   | 0                                 | 244  | 33           | 4 334    | 72 429            |                        |              | 2 515   |                            | 6 849     |
| 20 Machinery and equipment                        | 0                                 | 0               | 0  | 1   | 0                                      | 0  | 4  | 10  | 5  | 66                          | 157   | 416  | 970                                 | 3 496   | 52                                 | 40   | 0                                 | 0  | 0            | 314      | 5 531             |                        |              | 7 383   |                            | 12 914    |
| 21 Transport equipment                            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 11  | 0  | 50                          | 18  | 0  | 0                                   | 11  | 2 681                              | 17   | 0                                 | 0  | 4            | 9        | 2 801             |                        |              | 2 690   |                            | 5 491     |
| 22 Furniture and other manufactured goods         | 0                                 | 0               | 0  | 5   | 1 158                                  | 0  | 1  | 0   | 0  | 0                           | 8   | 1  | 0                                   | 1   | 0                                  | 775  | 0                                 | 0  | 0            | 793      | 2 742             |                        |              | 1 605   |                            | 4 347     |
| 23 Total row 1-22                                 | 43 315                            | 94 135          | 51 896   | 593   | 8 870                                  | 58 798   | 51 440   | 2 804                                       | 24 934   | 14 048                      | 4 375   | 461  | 1 109                               | 3 622   | 2 754                              | 1 091  | 102                               | 548  | 12 612       | 16 363   | 393 870           |                        |              | 354 649 |                            | 748 519   |
| 24 Waste and recycled products                    | 4 236                             | 66              | 7 618  | 72  | 996                                    | 523  | 1 188  | 161   | 740  | 1 815                       | 406   | 19   | 55                                  | 169   | 119                                | 261  | 1 261                             | 17 264   | 18 934       | 5 314    | 61 217            | 9 176                  | 6 232        | 17 537  | 0                          | 94 162    |
| 25 Extraction                                     |                                   |                 |  |   |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |              |         | 143 544                    | 143 544   |
| 26 Balancing item                                 | 61 519                            | 3 943           | 22 708   | 409   | 2 613                                  | 15 888   | 27 780   | 329   | 5 757  | 9 246                       | 876   | 355  | 315                                 | 544   | 364                                | 1 257  | 87 711                            | 15 059   | 64 292       | 88 925   | 409 890           | 84 762                 | 0            |         | 282 561                    | 777 213   |
| 27 Total  | 109 070                           | 98 144          | 82 222   | 1 074   | 12 479                                 | 75 209   | 80 408   | 3 294                                       | 31 431   | 25 109                      | 5 657   | 835  | 1 479                               | 4 335   | 3 237                              | 2 609  | 89 074                            | 32 871   | 95 838       | 110 602  | 864 977           | 93 938                 | 6 232        | 372 186 | 426 105                    | 1 763 438 |
| Value added (mln euro)                            | 10 828                            | 17 283          | 11 507   | 1 033   | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253  | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |              |         |                            |           |
| Labour volume x1000 (fte)                         | 166                               | 7               | 112  | 15  | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174  | 22                                | 30   | 505          | 5 593    | 7 055             |                        |              |         |                            |           |

# Annex 1d Use table, mln. kilos, 2010

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing equipment | Electricity, gas and steam supply | Water treatment and supply; sewerage; waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation & other final demand | Export  | Flows to the environment | Total     |         |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|-----------------------------------|---------|--------------------------|-----------|---------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23                                | 24      | 26                       | 27        |         |
| 1 Products of agriculture, forestry and fishing   | 5 323                             | 0               | 26 311   | 10  | 336                                    | 0  | 35   | 53  | 0  | 0                           | 0   | 0  | 1                                   | 0   | 0                                  | 1  | 0                                 | 0  | 12           | 1 567    | 33 649            | 2 338                  | 132                               | 16 166  |                          | 52 285    |         |
| 2 Products of cattle breeding                     | 501                               | 0               | 14 902   | 2   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 298      | 15 703            | 94                     | 83                                | 1 800   |                          | 17 680    |         |
| 3 Fossil energy carriers                          | 3 859                             | 905             | 1 562  | 87  | 565                                    | 57 633   | 9 396  | 35  | 597  | 4 664                       | 169   | 32   | 63                                  | 111   | 72                                 | 62   | 19 808                            | 89   | 191          | 6 066    | 105 966           | 9 370                  | 2 206                             | 51 979  |                          | 169 521   |         |
| 4 Other mining products                           | 1 076                             | 2 915           | 35   | 14  | 29                                     | 0  | 1 695  | 5   | 17 198   | 7 595                       | 10  | 0  | 0                                   | 11  | 0                                  | 108  | 0                                 | 15   | 38 882       | 5 099    | 74 687            | 171                    | - 197                             | 21 972  |                          | 96 633    |         |
| 5 Fish and meat products                          | 0                                 | 0               | 1 165  | 54  | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 558      | 1 777             | 978                    | 10                                | 4 340   |                          | 7 105     |         |
| 6 Potato, vegetable and fruit products            | 5                                 | 0               | 1 213  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 963      | 2 181             | 1 787                  | 101                               | 4 969   |                          | 9 038     |         |
| 7 Dairy products                                  | 4                                 | 0               | 2 141  | 0   | 0                                      | 0  | 146  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 692      | 2 983             | 1 799                  | - 30                              | 2 600   |                          | 7 352     |         |
| 8 Grain mill and starch products                  | 98                                | 0               | 4 124  | 0   | 130                                    | 0  | 30   | 2   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 2  | 38           | 247      | 4 671             | 195                    | 117                               | 3 019   |                          | 8 002     |         |
| 9 Other food products                             | 10 231                            | 0               | 7 199  | 0   | 11                                     | 0  | 186  | 19  | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 65                                | 0  | 0            | 1 352    | 19 063            | 3 747                  | 103                               | 12 274  |                          | 35 187    |         |
| 10 Beverages and tobacco products                 | 5                                 | 0               | 403  | 0   | 3                                      | 0  | 9  | 5   | 0  | 0                           | 13  | 5  | 6                                   | 7   | 4                                  | 5  | 0                                 | 0  | 28           | 3 056    | 3 549             | 2 290                  | 102                               | 3 573   |                          | 9 514     |         |
| 11 Textiles, wearing apparel and leather products | 6                                 | 0               | 4  | 212   | 44                                     | 0  | 6  | 18  | 6  | 0                           | 5   | 1  | 2                                   | 2   | 1                                  | 33   | 0                                 | 0  | 7            | 96       | 443               | 540                    | 98                                | 1 211   |                          | 2 292     |         |
| 12 Wood products, except furniture                | 84                                | 2               | 206  | 4   | 1 044                                  | 3  | 118  | 62  | 61   | 17                          | 155   | 9  | 20                                  | 89  | 77                                 | 335  | 7                                 | 15   | 1 514        | 1 003    | 4 825             | 222                    | 183                               | 1 219   |                          | 6 449     |         |
| 13 Printing and paper products                    | 21                                | 1               | 816  | 17  | 4 152                                  | 2  | 78   | 67  | 25   | 18                          | 54  | 40   | 5                                   | 71  | 14                                 | 88   | 5                                 | 7  | 10           | 1 633    | 7 124             | 362                    | 31                                | 4 533   |                          | 12 050    |         |
| 14 Coke and refined petroleum products            | 652                               | 39              | 48   | 5   | 19                                     | 4 347  | 11 783   | 7   | 74   | 2 482                       | 46  | 5  | 455                                 | 19  | 31                                 | 185  | 391                               | 77   | 1 274        | 19 507   | 41 446            | 6 194                  | - 1 133                           | 94 235  |                          | 140 742   |         |
| 15 Chemical and pharmaceutical products           | 1 667                             | 54              | 504  | 271   | 395                                    | 831  | 27 856   | 1 819                                       | 178  | 92                          | 156   | 138  | 116                                 | 134   | 60                                 | 233  | 6                                 | 208  | 432          | 2 019    | 37 169            | 645                    | 148                               | 44 034  |                          | 81 996    |         |
| 16 Rubber and plastic products                    | 103                               | 1               | 468  | 19  | 232                                    | 3  | 165  | 272   | 130  | 6                           | 87  | 17   | 59                                  | 126   | 120                                | 103  | 2                                 | 3  | 589          | 643      | 3 148             | 215                    | 62                                | 2 669   |                          | 6 094     |         |
| 17 Other non-metallic mineral products            | 60                                | 0               | 358  | 0   | 53                                     | 0  | 171  | 9   | 4 392  | 70                          | 81  | 18   | 64                                  | 14  | 27                                 | 55   | 43                                | 6  | 22 187       | 2 066    | 29 674            | 577                    | 470                               | 3 942   |                          | 34 663    |         |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 1   | 32                                     | 0  | 109  | 93  | 168  | 1 517                       | 3 488   | 101  | 249                                 | 1 491   | 571                                | 235  | 0                                 | 3  | 560          | 297      | 8 915             | 0                      | 161                               | 13 239  |                          | 22 315    |         |
| 19 Metal products, except machinery               | 5                                 | 0               | 208  | 0   | 36                                     | 2  | 46   | 3   | 12   | 2                           | 597   | 37   | 5                                   | 704   | 353                                | 235  | 17                                | 2  | 1 664        | 412      | 4 340             | 128                    | 388                               | 1 993   |                          | 6 849     |         |
| 20 Machinery and equipment                        | 6                                 | 3               | 13   | 0   | 1                                      | 1  | 4  | 1   | 1  | 2                           | 72  | 227  | 177                                 | 641   | 268                                | 171  | 1                                 | 2  | 429          | 423      | 2 443             | 358                    | 2 379                             | 7 734   |                          | 12 914    |         |
| 21 Transport equipment                            | 1                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 2   | 0  | 1                                   | 0   | 1 330                              | 1  | 0                                 | 0  | 7            | 277      | 1 619             | 405                    | 1 726                             | 1 741   |                          | 5 491     |         |
| 22 Furniture and other manufactured goods         | 1                                 | 3               | 70   | 6   | 12                                     | 2  | 16   | 3   | 4  | 2                           | 10  | 34   | 5                                   | 16  | 17                                 | 89   | 59                                | 2  | 57           | 1 227    | 1 635             | 1 016                  | 649                               | 1 047   |                          | 4 347     |         |
| 23 Total row 1-22                                 | 23 708                            | 3 923           | 61 750   | 702   | 7 094                                  | 62 824   | 51 849   | 2 473                                       | 22 846   | 16 467                      | 4 945   | 664  | 1 228                               | 3 436   | 2 945                              | 1 939  | 20 404                            | 431  | 67 881       | 49 501   | 407 010           | 33 431                 | 7 789                             | 300 289 |                          | 748 519   |         |
| 24 Waste and recycled products                    | 7 127                             | 9               | 6 421  | 44  | 3 292                                  | 0  | 676  | 568   | 1 818  | 2 524                       | 11  | 0  | 0                                   | 463   | 0                                  | 27   | 2 674                             | 25 956   | 24 477       | 0        | 76 087            |                        | 1 529                             | 16 546  | 0                        | 94 162    |         |
| 25 Extraction                                     | 38 472                            | 91 068          | 902  | 0   | 0                                      | 0  | 5 156  | 0   | 4 122  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 3 824    | 143 544           |                        |                                   |         |                          |           | 143 544 |
| 26 Balancing item                                 | 39 763                            | 3 144           | 13 149   | 328   | 2 093                                  | 12 385   | 22 727   | 253   | 2 645  | 6 118                       | 701   | 171  | 251                                 | 436   | 292                                | 643  | 65 996                            | 6 484  | 3 480        | 57 277   | 238 336           | 60 507                 | 102 469                           |         | 375 901                  |           | 777 213 |
| 27 Total  | 109 070                           | 98 144          | 82 222   | 1 074   | 12 479                                 | 75 209   | 80 408   | 3 294                                       | 31 431   | 25 109                      | 5 657   | 835  | 1 479                               | 4 335   | 3 237                              | 2 609  | 89 074                            | 32 871   | 95 838       | 110 602  | 864 977           | 93 938                 | 111 787                           | 316 835 | 375 901                  | 1 763 438 |         |
| Value added (mln euro)                            | 10 828                            | 17 283          | 11 507   | 1 033   | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253  | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |                                   |         |                          |           |         |
| Labour volume x1000 (fte)                         | 166                               | 7               | 112  | 15  | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174  | 22                                | 30   | 505          | 5 593    | 7 055             |                        |                                   |         |                          |           |         |

# Annex 1e Supply table, mln. kilos, 2012

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing equipment | Electricity, gas and steam supply | Water treatment and supply; sewerage; waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | Import  | Flows from the environment | Total     |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|---------|----------------------------|-----------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24      | 25                         | 26        |
| 1 Products of agriculture, forestry and fishing   | 26 659                            | 0               | 1  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 21   | 0                                 | 0  | 0            | 0        | 26 681            |                        |              | 25 442  |                            | 52 123    |
| 2 Products of cattle breeding                     | 16 660                            | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 0        | 16 660            |                        |              | 1 164   |                            | 17 824    |
| 3 Fossil energy carriers                          | 0                                 | 63 719          | 6  | 0   | 0                                      | 288  | 0  | 0   | 0  | 956                         | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 127                               | 10   | 0            | 172      | 65 278            |                        |              | 106 111 |                            | 171 389   |
| 4 Other mining products                           | 0                                 | 25 581          | 670  | 0   | 0                                      | 0  | 4 040  | 144   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 8 407        | 3 210    | 42 052            |                        |              | 45 128  |                            | 87 180    |
| 5 Fish and meat products                          | 107                               | 0               | 4 298  | 1   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 18       | 4 424             |                        |              | 3 024   |                            | 7 448     |
| 6 Potato, vegetable and fruit products            | 0                                 | 0               | 4 371  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 423      | 4 794             |                        |              | 3 950   |                            | 8 744     |
| 7 Dairy products                                  | 46                                | 0               | 4 912  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 91       | 5 049             |                        |              | 2 499   |                            | 7 548     |
| 8 Grain mill and starch products                  | 0                                 | 0               | 4 203  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 65       | 4 268             |                        |              | 3 228   |                            | 7 496     |
| 9 Other food products                             | 0                                 | 292             | 28 355   | 0   | 0                                      | 0  | 529  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 211      | 29 387            |                        |              | 9 082   |                            | 38 469    |
| 10 Beverages and tobacco products                 | 0                                 | 0               | 5 984  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 31       | 6 015             |                        |              | 3 462   |                            | 9 477     |
| 11 Textiles, wearing apparel and leather products | 0                                 | 0               | 0  | 550   | 6                                      | 0  | 20   | 0   | 0  | 0                           | 0   | 0  | 0                                   | 4   | 0                                  | 2  | 0                                 | 0  | 0            | 25       | 607               |                        |              | 1 567   |                            | 2 174     |
| 12 Wood products, except furniture                | 0                                 | 0               | 0  | 0   | 2 220                                  | 0  | 0  | 110   | 0  | 0                           | 5   | 0  | 0                                   | 0   | 0                                  | 92   | 0                                 | 0  | 0            | 90       | 2 517             |                        |              | 3 660   |                            | 6 177     |
| 13 Printing and paper products                    | 0                                 | 0               | 0  | 2   | 5 185                                  | 0  | 0  | 15  | 0  | 5                           | 4   | 0  | 0                                   | 0   | 0                                  | 8  | 0                                 | 0  | 0            | 55       | 5 274             |                        |              | 6 569   |                            | 11 843    |
| 14 Coke and refined petroleum products            | 0                                 | 0               | 0  | 0   | 0                                      | 57 130   | 3 962  | 0   | 0  | 1 894                       | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 11 261   | 74 247            |                        |              | 75 568  |                            | 149 815   |
| 15 Chemical and pharmaceutical products           | 5                                 | 161             | 220  | 1   | 6                                      | 390  | 47 112   | 40  | 4  | 22                          | 4   | 1  | 50                                  | 2   | 0                                  | 19   | 0                                 | 340  | 0            | 571      | 48 948            |                        |              | 38 199  |                            | 87 147    |
| 16 Rubber and plastic products                    | 0                                 | 0               | 0  | 3   | 15                                     | 0  | 40   | 2 606                                       | 4  | 5                           | 27  | 2  | 4                                   | 3   | 0                                  | 22   | 0                                 | 0  | 0            | 34       | 2 765             |                        |              | 3 042   |                            | 5 807     |
| 17 Other non-metallic mineral products            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 3  | 19  | 24 065   | 38                          | 31  | 14   | 34                                  | 0   | 0                                  | 4  | 0                                 | 0  | 91           | 498      | 24 797            |                        |              | 8 726   |                            | 33 523    |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 0   | 3                                      | 0  | 1  | 0   | 0  | 10 533                      | 210   | 0  | 22                                  | 11  | 0                                  | 0  | 0                                 | 0  | 0            | 31       | 10 811            |                        |              | 12 754  |                            | 23 565    |
| 19 Metal products, except machinery               | 0                                 | 0               | 14   | 7   | 28                                     | 0  | 0  | 24  | 0  | 79                          | 3 988   | 5  | 15                                  | 55  | 17                                 | 41   | 0                                 | 0  | 181          | 41       | 4 495             |                        |              | 2 356   |                            | 6 851     |
| 20 Machinery and equipment                        | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 3   | 0  | 69                          | 80  | 523  | 1 097                               | 3 930   | 38                                 | 26   | 0                                 | 0  | 0            | 253      | 6 019             |                        |              | 7 356   |                            | 13 375    |
| 21 Transport equipment                            | 0                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 5   | 0  | 30                          | 13  | 0  | 0                                   | 16  | 2 940                              | 10   | 0                                 | 0  | 4            | 8        | 3 026             |                        |              | 3 026   |                            | 5 953     |
| 22 Furniture and other manufactured goods         | 0                                 | 0               | 0  | 7   | 1 132                                  | 0  | 0  | 0   | 0  | 0                           | 1   | 1  | 0                                   | 1   | 0                                  | 707  | 0                                 | 0  | 0            | 716      | 2 565             |                        |              | 1 519   |                            | 4 084     |
| 23 Total row 1-22                                 | 43 477                            | 89 753          | 53 034   | 571   | 8 595                                  | 57 808   | 55 707   | 2 966                                       | 24 073   | 13 631                      | 4 363   | 546  | 1 222                               | 4 022   | 2 995                              | 952  | 127                               | 350  | 8 683        | 17 804   | 390 679           |                        |              | 367 333 |                            | 758 012   |
| 24 Waste and recycled products                    | 4 366                             | 71              | 7 841  | 79  | 779                                    | 528  | 1 173  | 117   | 747  | 1 707                       | 404   | 26   | 50                                  | 158   | 94                                 | 295  | 1 303                             | 15 595   | 20 115       | 5 086    | 60 534            | 8 443                  | 6 174        | 19 686  | 0                          | 94 837    |
| 25 Extraction                                     |                                   |                 |  |   |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |              |         | 139 978                    | 139 978   |
| 26 Balancing item                                 | 59 416                            | 4 182           | 21 748   | 371   | 2 434                                  | 16 359   | 26 249   | 348   | 4 475  | 8 373                       | 800   | 275  | 283                                 | 490   | 278                                | 1 536  | 72 378                            | 18 527   | 61 209       | 84 998   | 384 729           | 79 634                 | 0            | 260 377 |                            | 724 740   |
| 27 Total  | 107 259                           | 94 006          | 82 623   | 1 021   | 11 808                                 | 74 695   | 83 129   | 3 431                                       | 29 295   | 23 711                      | 5 567   | 847  | 1 555                               | 4 670   | 3 367                              | 2 783  | 73 808                            | 34 472   | 90 007       | 107 888  | 835 942           | 88 077                 | 6 174        | 387 019 | 400 355                    | 1 717 567 |
| Value added (mln euro)                            | 10 225                            | 21 327          | 12 819   | 1 077   | 4 037                                  | 1 044  | 11 673   | 2 468                                       | 1 762  | 1 734                       | 6 302   | 3 899  | 2 202                               | 7 894   | 3 410                              | 8 753  | 7 458                             | 3 597  | 27 826       | 444 325  | 583 832           |                        |              |         |                            |           |
| Labour volume x1000 (fte)                         | 162                               | 8               | 109  | 15  | 55                                     | 6  | 54   | 28  | 24   | 20                          | 82  | 25   | 20                                  | 72  | 35                                 | 169  | 22                                | 30   | 490          | 5 628    | 7 054             |                        |              |         |                            |           |



# Annex 1f Use table, mln. kilos, 2012

|   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco products | Manufacture of textiles, wearing apparel and leather products | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery equipment | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing equipment | Electricity, gas and steam supply | Water treatment and supply; sewerage; waste treatment and disposal | Construction | Services | Total collum 1-20 | Consumption households | Accumulation & other final demand | Export  | Flows to the environment | Total     |
|---|-----------------------------------|-----------------|--|---|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|-----------------------------------|---------|--------------------------|-----------|
|   | 1                                 | 2               | 3  | 4   | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23                                | 24      | 26                       | 27        |
| 1 Products of agriculture, forestry and fishing   | 5 969                             | 0               | 24 349   | 27  | 277                                    | 0  | 53   | 60  | 0  | 0                           | 0   | 2  | 0                                   | 0   | 2                                  | 0  | 0                                 | 11   | 1 377        | 32 127   | 2 456             | 970                    | 16 570                            |         | 52 123                   |           |
| 2 Products of cattle breeding                     | 524                               | 0               | 15 260   | 3   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 333      | 16 120            | 110                    | 81                                | 1 513   |                          | 17 824    |
| 3 Fossil energy carriers                          | 3 433                             | 928             | 1 541  | 80  | 526                                    | 56 175   | 8 685  | 57  | 481  | 4 901                       | 133   | 26   | 49                                  | 97  | 51                                 | 114  | 16 423                            | 144  | 166          | 5 024    | 99 034            | 8 104                  | - 12                              | 64 433  |                          | 171 389   |
| 4 Other mining products                           | 1 094                             | 3 446           | 33   | 22  | 55                                     | 0  | 1 753  | 0   | 15 394   | 6 816                       | 0   | 0  | 0                                   | 9   | 0                                  | 93   | 0                                 | 15   | 35 326       | 4 364    | 68 420            | 174                    | - 50                              | 18 636  |                          | 87 180    |
| 5 Fish and meat products                          | 0                                 | 0               | 1 268  | 81  | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 550      | 1 899             | 1 010                  | - 25                              | 4 564   |                          | 7 448     |
| 6 Potato, vegetable and fruit products            | 5                                 | 0               | 1 116  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 908      | 2 029             | 1 778                  | - 70                              | 5 007   |                          | 8 744     |
| 7 Dairy products                                  | 4                                 | 0               | 2 310  | 0   | 0                                      | 124  | 0  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 671      | 3 109             | 1 807                  | - 2                               | 2 634   |                          | 7 548     |
| 8 Grain mill and starch products                  | 98                                | 0               | 3 932  | 0   | 102                                    | 23   | 2  | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 1  | 31           | 248      | 4 437             | 213                    | 14                                | 2 832   |                          | 7 496     |
| 9 Other food products                             | 11 216                            | 0               | 8 084  | 0   | 13                                     | 323  | 34   | 0   | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 57                                | 0  | 0            | 1 282    | 21 009            | 3 807                  | - 22                              | 13 675  |                          | 38 469    |
| 10 Beverages and tobacco products                 | 5                                 | 0               | 336  | 0   | 3                                      | 9  | 5  | 0   | 13   | 5                           | 6   | 7  | 4                                   | 5   | 0                                  | 0  | 28                                | 3 029  | 3 455        | 2 338    | 3 455             | 2 338                  | - 38                              | 3 722   |                          | 9 477     |
| 11 Textiles, wearing apparel and leather products | 5                                 | 0               | 4 209  | 42  | 0                                      | 6  | 21   | 7   | 0  | 3                           | 1   | 5  | 4                                   | 2   | 26                                 | 0  | 0                                 | 7  | 96           | 438      | 508               | 66                     | 1 162                             |         | 2 174                    |           |
| 12 Wood products, except furniture                | 92                                | 1               | 218  | 1   | 929                                    | 2  | 111  | 54  | 54   | 72                          | 111   | 22   | 42                                  | 82  | 32                                 | 268  | 4                                 | 14   | 1 353        | 938      | 4 400             | 189                    | 136                               | 1 452   |                          | 6 177     |
| 13 Printing and paper products                    | 18                                | 1               | 825  | 19  | 4 196                                  | 9  | 77   | 61  | 25   | 22                          | 53  | 25   | 7                                   | 82  | 26                                 | 65   | 5                                 | 7  | 9            | 1 529    | 7 061             | 352                    | 8                                 | 4 422   |                          | 11 843    |
| 14 Coke and refined petroleum products            | 591                               | 24              | 47   | 5   | 53                                     | 4 542  | 13 898   | 6   | 63   | 1 821                       | 36  | 0  | 470                                 | 14  | 10                                 | 176  | 418                               | 94   | 1 180        | 22 111   | 45 559            | 6 130                  | 719                               | 97 407  |                          | 149 815   |
| 15 Chemical and pharmaceutical products           | 1 641                             | 65              | 416  | 220   | 357                                    | 1 137  | 30 296   | 1 760                                       | 152  | 65                          | 165   | 168  | 116                                 | 121   | 54                                 | 179  | 25                                | 205  | 422          | 1 765    | 39 329            | 632                    | - 23                              | 47 209  |                          | 87 147    |
| 16 Rubber and plastic products                    | 103                               | 1               | 456  | 12  | 200                                    | 9  | 195  | 295   | 147  | 6                           | 98  | 22   | 57                                  | 124   | 132                                | 89   | 2                                 | 3  | 569          | 600      | 3 120             | 209                    | 30                                | 2 448   |                          | 5 807     |
| 17 Other non-metallic mineral products            | 59                                | 0               | 349  | 0   | 84                                     | 0  | 93   | 9   | 4 635  | 71                          | 61  | 17   | 58                                  | 20  | 26                                 | 58   | 41                                | 6  | 20 622       | 1 920    | 28 129            | 516                    | 322                               | 4 556   |                          | 33 523    |
| 18 Basic metals                                   | 0                                 | 0               | 0  | 6   | 13                                     | 0  | 88   | 102   | 141  | 1 803                       | 3 577   | 83   | 325                                 | 1 702   | 493                                | 284  | 0                                 | 3  | 528          | 285      | 9 433             | 0                      | 37                                | 14 095  |                          | 23 565    |
| 19 Metal products, except machinery               | 6                                 | 0               | 218  | 0   | 29                                     | 8  | 57   | 4   | 4  | 3                           | 567   | 43   | 4                                   | 753   | 327                                | 324  | 22                                | 2  | 1 451        | 381      | 4 203             | 115                    | 487                               | 2 046   |                          | 6 851     |
| 20 Machinery and equipment                        | 6                                 | 3               | 11   | 0   | 1                                      | 1  | 4  | 1   | 1  | 2                           | 64  | 307  | 185                                 | 860   | 312                                | 174  | 2                                 | 2  | 406          | 408      | 2 750             | 354                    | 2 341                             | 7 930   |                          | 13 375    |
| 21 Transport equipment                            | 1                                 | 0               | 0  | 0   | 0                                      | 0  | 0  | 0   | 0  | 0                           | 0   | 1  | 0                                   | 1 658   | 1                                  | 0  | 0                                 | 7  | 273          | 1 941    | 386               | 1 687                  | 1 939                             |         | 5 953                    |           |
| 22 Furniture and other manufactured goods         | 1                                 | 4               | 64   | 5   | 11                                     | 1  | 14   | 3   | 4  | 2                           | 9   | 36   | 5                                   | 17  | 18                                 | 87   | 144                               | 2  | 50           | 1 131    | 1 608             | 927                    | 1 014                             |         | 4 084                    |           |
| 23 Total row 1-22                                 | 24 871                            | 4 473           | 60 837   | 690   | 6 891                                  | 61 884   | 55 809   | 2 474                                       | 21 108   | 15 584                      | 4 890   | 755  | 1 332                               | 3 892   | 3 145                              | 1 945  | 17 143                            | 498  | 62 166       | 49 223   | 399 610           | 32 115                 | 7 021                             | 319 266 |                          | 758 012   |
| 24 Waste and recycled products                    | 7 358                             | 7               | 8 283  | 33  | 2 966                                  | 0  | 523  | 683   | 2 037  | 2 423                       | 44  | 0  | 0                                   | 386   | 0                                  | 5  | 2 740                             | 26 666   | 24 423       | 0        | 78 577            |                        | 1 146                             | 15 114  | 0                        | 94 837    |
| 25 Extraction                                     | 40 071                            | 86 191          | 845  | 0   | 0                                      | 5 590  | 0  | 3 952                                       | 0  | 0                           | 0   | 0  | 0                                   | 0   | 0                                  | 0  | 0                                 | 0  | 0            | 3 329    | 139 978           |                        |                                   |         |                          | 139 978   |
| 26 Balancing item                                 | 34 959                            | 3 335           | 12 658   | 298   | 1 951                                  | 12 811   | 21 207   | 274   | 2 198  | 5 704                       | 633   | 92   | 223                                 | 392   | 222                                | 833  | 53 925                            | 7 308  | 3 418        | 55 336   | 217 777           | 55 962                 | 102 157                           | 348 844 |                          | 724 740   |
| 27 Total  | 107 259                           | 94 006          | 82 623   | 1 021   | 11 808                                 | 74 695   | 83 129   | 3 431                                       | 29 295   | 23 711                      | 5 567   | 847  | 1 555                               | 4 670   | 3 367                              | 2 783  | 73 808                            | 34 472   | 90 007       | 107 888  | 835 942           | 88 077                 | 110 324                           | 334 380 | 348 844                  | 1 717 567 |
| Value added (mln euro)                            | 10 225                            | 21 327          | 12 819   | 1 077   | 4 037                                  | 1 044  | 11 673   | 2 468                                       | 1 762  | 1 734                       | 6 302   | 3 899  | 2 202                               | 7 894   | 3 410                              | 8 753  | 7 458                             | 3 597  | 27 826       | 444 325  | 583 832           |                        |                                   |         |                          |           |
| Labour volume x1000 (fte)                         | 162                               | 8               | 109  | 15  | 55                                     | 6  | 54   | 28  | 24   | 20                          | 82  | 25   | 20                                  | 72  | 35                                 | 169  | 22                                | 30   | 490          | 5 628    | 7 054             |                        |                                   |         |                          |           |

## Annex 2a Water Supply table (mln. m3), 2008 <sup>\*)</sup>

|                             |   | 1                                 | 2               | 3   | 4  | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16  | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24           | 25                         | 26      |
|-----------------------------|---|-----------------------------------|-----------------|---|--|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|---|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|--------------|----------------------------|---------|
|                             |   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco | Manufacture of textiles, wearing apparel and leather | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing products | Electricity, gas and steam supply | Water treatment and supply; sewerage, waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | RoW (Import) | Flows from the environment | Total   |
| FROM ENVIRONMENT TO ECONOMY | Total                                     | 1                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9430,0                     | 9430,0  |
|                             | Surface water                             | 2                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Non process                               | 3                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9430,0                     | 9430,0  |
|                             | Process                                   | 4                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 1075,4                     | 1075,4  |
|                             | Groundwater                               | 5                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 16,0                       | 16,0    |
|                             | Non process                               | 6                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 1063,6                     | 1063,6  |
|                             | Process                                   | 7                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 3980,7                     | 3980,7  |
|                             | Sea water                                 | 8                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Non process                               | 9                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 3952,4                     | 3952,4  |
|                             | Process                                   | 10                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 27,8                       | 27,8    |
| WITHIN THE ECONOMY          | Extraction                                | 11                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 1094,6                     | 1103,5  |
|                             | Total                                     | 12                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 1094,6            |                        |              | 9,0          | 1103,5                     |         |
|                             | Drinking water                            | 13                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 816,7             |                        |              | 9,0          | 825,7                      |         |
|                             | Non process                               | 14                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 277,8             |                        |              |              | 277,8                      |         |
|                             | Process                                   | 15                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 69,5              |                        |              | 0,0          | 69,5                       |         |
|                             | Industry water                            | 16                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        |         |
|                             | Non process                               | 17                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 69,5              |                        |              |              | 69,5                       |         |
|                             | Process                                   | 18                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 1,1               | 3,3                    | 1,7          |              | 63,8                       |         |
|                             | Water from products                       | 19                                | 31,0            | 4,1   | 20,1   | 0,0                                    | 0,6  | 0,0  | 0,2   | 0,0  | 1,5                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,0                               | 0,0  | 0,0          | 0,0      | 1,1               | 3,3                    | 1,7          |              | 63,8                       |         |
|                             | Non process                               | 20                                | 6,0             | 0,4   | 102,7  | 11,9                                   | 20,4   | 14,7   | 48,1  | 15,1   | 6,2                         | 20,1  | 3,6  | 4,8                                 | 1,0   | 3,4                                | 1,8   | 1,4                               | 7,6  | 7,4          | 10,8     | 90,8              | 378,0                  | 723,7        | 0,0          | 0,0                        | 1101,7  |
| FROM ECONOMY TO ENVIRONMENT | Waste water                               | 21                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | To waste water collection and - treatment | 22                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Own treatment                             | 23                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | To industry (reused water)                | 24                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 4,0               |                        |              | 0,0          | 4,0                        |         |
|                             | fresh surface water                       | 25                                | 20,5            | -0,6  | 183,7  | 0,0                                    | 88,3   | 749,8  | 1564,3                                      | 42,2   | 5,6                         | 51,8  | 1,3  | 0,1                                 | 0,3   | 0,5                                | 1,0   | 0,3                               | 5270,4   | 2270,2       | 18,4     | 18,4              | 10286,5                | 3,0          |              |                            | 10289,4 |
|                             | Marine water                              | 26                                | 0,0             | 28,3  | 0,0  | 0,0                                    | 0,0  | 0,0  | 405,8                                       | 0,0  | 0,4                         | 196,6   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,0                               | 3349,5   | 143,4        | 0,0      | 0,0               | 4124,2                 |              |              |                            | 4124,2  |
| Return Flow s               | Soil                                      | 27                                | 36,0            | 0,0   | 0,0  | 0,0                                    | 0,0  | 1,6  | 0,0   | 0,0  | 0,0                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,4                               | 0,5  | 19,5         | 21,4     | 79,4              | 1,5                    |              |              | 80,8                       |         |
|                             | to atmosphere                             | 28                                | 61,3            | 1,7   | 16,5   | 0,6                                    | 26,9   | 40,2   | 106,3                                       | 3,0  | 0,9                         | 14,1  | 0,3  | 0,3                                 | 0,1   | 0,2                                | 0,1   | 0,1                               | 454,1  | 86,2         | 4,8      | 16,8              | 834,5                  | 60,3         |              |                            | 894,8   |
| Total row 1-24              | 25  | 154,9                             | 34,0            | 323,1   | 12,6   | 136,2                                  | 804,7  | 2126,4   | 60,3  | 14,5   | 282,7                       | 5,2   | 5,1  | 1,3                                 | 4,0   | 2,9                                | 1,9   | 9081,9                            | 3676,9   | 56,8         | 149,0    | 16934,3           | 788,4                  |              | 9,0          | 14513,9                    | 32245,6 |
| Total Supply                | Total Supply                              | 154,9                             | 34,0            | 323,1   | 12,6   | 136,2                                  | 804,7  | 2126,4   | 60,3  | 14,5   | 282,7                       | 5,2   | 5,1  | 1,3                                 | 4,0   | 2,9                                | 1,9   | 9081,9                            | 3676,9   | 56,8         | 149,0    | 16934,3           | 788,4                  |              | 9,0          | 14513,9                    | 32245,6 |
| Total Use                   | Total Use                                 | 154,9                             | 34,0            | 323,1   | 12,6   | 136,2                                  | 804,7  | 2126,4   | 60,3  | 14,5   | 282,7                       | 5,2   | 5,1  | 1,3                                 | 4,0   | 2,9                                | 1,9   | 9081,9                            | 3676,9   | 56,8         | 149,0    | 16934,3           | 788,4                  |              | 3,4          | 15389,2                    | 33115,3 |
| Value added (mln euro)      |   | 10 828                            | 17 283          | 11 507  | 1 033  | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253   | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |              |              |                            |         |
| Labour volume x1000 (fte)   |   | 166                               | 7               | 112   | 15   | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174   | 22                                | 30   | 505          | 5 593    | 7 055             |                        |              |              |                            |         |

<sup>\*)</sup> More detail, both for the industry level as for the activity of supply, is available in the database for the Physical Water Supply and Use tables (Water – PSUT).

## Annex 2b Water Use table (mln. m3), 2008 <sup>\*)</sup>

|  |                             | Agriculture, forestry and fishing         |                     |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         | Total column 1-20 |        | Consumption households |      | Accumulation & other final demand |         | Flows to the environment |  | Total |  |
|--|-----------------------------|---|---------------------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|-------------------|--------|------------------------|------|-----------------------------------|---------|--------------------------|--|-------|--|
|  |                             | 1   | 2                   | 3      | 4     | 5     | 6     | 7      | 8     | 9      | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17     | 18     | 19     | 20      | 21                | 22     | 23                     | 24   | 26                                | 27      |                          |  |       |  |
|  |                             |   |                     |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         | Total column 1-20 |        | Consumption households |      | Accumulation & other final demand |         | Flows to the environment |  | Total |  |
|  |                             |   |                     |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         | Total column 1-20 |        | Consumption households |      | Accumulation & other final demand |         | Flows to the environment |  | Total |  |
| FROM ENVIRONMENT TO ECONOMY              | Surface water               | Total                                     | 1                   | 21,1   | 0,9   | 173,7 | 6,5   | 110,0  | 779,4 | 1635,4 | 20,4  | 1,9   | 31,0  | 1,2   | 0,1   | 0,3   | 0,4   | 1,0    | 0,3    | 5724,3 | 922,1   | 9430,0            | 0,0    |                        |      |                                   | 9430,0  |                          |  |       |  |
|  |                             | Non process                               | 2                   |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   | 0,0    | 0,0                    |      |                                   |         | 0,0                      |  |       |  |
|  |                             | Process                                   | 3                   | 21,1   | 0,9   | 173,7 | 6,5   | 110,0  | 779,4 | 1635,4 | 20,4  | 1,9   | 31,0  | 1,2   | 0,1   | 0,3   | 0,4   | 1,0    | 0,3    | 5724,3 | 922,1   | 9430,0            | 0,0    |                        |      |                                   | 9430,0  |                          |  |       |  |
|  | Ground water                | Total                                     | 4                   | 51,2   | 0,1   | 54,1  | 3,8   | 19,0   | 0,0   | 28,6   | 34,9  | 5,6   | 17,1  | 1,3   | 2,4   | 0,1   | 0,7   | 0,2    | 0,4    | 1,6    | 763,5   | 47,3              | 43,6   | 1075,4                 | 0,0  |                                   |         | 1075,4                   |  |       |  |
|  |                             | Non process                               | 5                   | 0,5    | 0,0   | 0,3   | 0,0   | 0,0    | 0,0   | 4,1    | 0,0   | 1,2   | 5,3   | 0,0   | 0,0   | 0,0   | 0,2   | 0,0    | 0,0    | 0,0    | 0,0     | 0,0               | 0,2    | 4,2                    | 16,0 | 0,0                               |         | 16,0                     |  |       |  |
|  |                             | Process                                   | 6                   | 50,8   | 0,0   | 55,2  | 3,9   | 19,5   | 0,0   | 25,1   | 35,8  | 4,5   | 12,3  | 1,3   | 2,5   | 0,1   | 0,5   | 0,2    | 0,4    | 1,7    | 763,6   | 47,1              | 39,3   | 1063,6                 | 0,0  |                                   |         | 1063,6                   |  |       |  |
|  | Sea water                   | Total                                     | 7                   | 0,0    | 28,3  | 0,0   | 0,0   | 0,0    | 0,0   | 405,8  | 0,0   | 0,4   | 196,6 | 0,0   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0    | 0,0    | 3349,5  | 0,0               | 3980,7 | 0,0                    |      |                                   |         | 3980,7                   |  |       |  |
|  |                             | Non process                               | 8                   |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   | 0,0    | 0,0                    |      |                                   |         | 0,0                      |  |       |  |
|  |                             | Process                                   | 9                   | 0,0    | 0,0   | 0,0   | 0,0   | 0,0    | 0,0   | 405,8  | 0,0   | 0,4   | 196,6 | 0,0   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0    | 0,0    | 3349,5  | 0,0               | 3980,7 | 0,0                    |      |                                   |         | 3980,7                   |  |       |  |
|  | Extraction                  | in product                                | 10                  | 27,2   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0   | 0,0    | 0,7   | 0,0   | 0,0   | 0,0   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0    | 0,0    | 0,0     | 0,0               | 0,0    | 0,0                    | 27,8 | 0,0                               |         | 27,8                     |  |       |  |
| Total                                    |                             | 11  | 45,9                | 4,3    | 63,6  | 2,3   | 6,1   | 15,4   | 32,2  | 4,9    | 3,8   | 3,2   | 2,5   | 2,6   | 0,9   | 2,9   | 1,7   | 1,1    | 4,0    | 6,6    | 2,9     | 99,1              | 306,1  | 788,4                  | 3,4  |                                   | 1098,0  |                          |  |       |  |
| Non process                              |                             | 12  | 0,8                 | 0,0    | 0,6   | 0,1   | 0,4   | 0,0    | 0,3   | 0,2    | 0,1   | 0,1   | 0,5   | 0,2   | 0,1   | 0,4   | 0,2   | 0,3    | 0,0    | 0,0    | 0,4     | 23,5              | 28,3   | 788,4                  | 3,4  |                                   | 820,1   |                          |  |       |  |
| WITHIN THE ECONOMY                       | Drinking water              | Process                                   | 13                  | 45,0   | 4,3   | 63,0  | 2,2   | 5,7    | 15,4  | 31,9   | 4,7   | 3,6   | 3,1   | 2,1   | 2,4   | 0,8   | 2,5   | 1,5    | 0,9    | 4,0    | 6,6     | 2,6               | 75,7   | 277,8                  | 0,0  |                                   | 277,8   |                          |  |       |  |
|  |                             | Total                                     | 14                  | 0,0    | 0,0   | 1,6   | 0,0   | 0,0    | 9,8   | 24,0   | 0,0   | 0,0   | 33,8  | 0,1   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0    | 0,0    | 0,1     | 0,1               | 69,5   | 0,0                    | 0,0  |                                   | 69,5    |                          |  |       |  |
|  |                             | Non process                               | 15                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   | 0,0    | 0,0                    |      |                                   |         | 0,0                      |  |       |  |
|  | Industry water              | Process                                   | 16                  | 0,0    | 0,0   | 1,6   | 0,0   | 0,0    | 9,8   | 24,0   | 0,0   | 0,0   | 33,8  | 0,1   | 0,0   | 0,0   | 0,0   | 0,0    | 0,0    | 0,0    | 0,1     | 0,1               | 69,5   | 0,0                    | 0,0  |                                   | 69,5    |                          |  |       |  |
|  |                             | Non process                               | 17                  | 9,6    | 0,4   | 30,1  | 0,0   | 1,1    | 0,0   | 0,3    | 0,1   | 2,2   | 0,9   | 0,0   | 0,0   | 0,0   | 0,1   | 0,0    | 0,1    | 2,3    | 1,5     | 6,5               | 6,3    | 61,7                   | 0,0  | 0,0                               |         | 61,7                     |  |       |  |
|  |                             | Water in products                         | 18                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
|  | Waste Water                 | To waste water collection and - treatment | 19                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
|  |                             | Own treatment                             | 20                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
|  |                             | To industry (reused water)                | 21                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
|  | FROM ECONOMY TO ENVIRONMENT | Return Flow s                             | fresh surface water | 22     |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
| Marine water                             |                             |   | 23                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
| Soil to atmosphere                       |                             |   | 24                  |        |       |       |       |        |       |        |       |       |       |       |       |       |       |        |        |        |         |                   |        |                        |      |                                   |         |                          |  |       |  |
| Total row 1-24                           | 25                          | 154,9                                     | 34,0                | 323,1  | 12,6  | 136,2 | 804,7 | 2126,4 | 60,3  | 14,5   | 282,7 | 5,2   | 5,1   | 1,3   | 4,0   | 2,9   | 1,9   | 9081,9 | 3676,9 | 56,8   | 149,0   | 16934,3           | 788,4  |                        | 3,4  | 15389,2                           | 33115,3 |                          |  |       |  |
| Total Use                                | Total Use                   | 154,9                                     | 34,0                | 323,1  | 12,6  | 136,2 | 804,7 | 2126,4 | 60,3  | 14,5   | 282,7 | 5,2   | 5,1   | 1,3   | 4,0   | 2,9   | 1,9   | 9081,9 | 3676,9 | 56,8   | 149,0   | 16934,3           | 788,4  |                        | 3,4  | 15389,2                           |         |                          |  |       |  |
| Value added (mln euro)                   |                             | 10 828                                    | 17 283              | 11 507 | 1 033 | 4 416 | 670   | 11 051 | 2 362 | 1 867  | 1 888 | 5 966 | 4 453 | 2 001 | 7 837 | 3 720 | 8 253 | 7 301  | 3 541  | 30 531 | 431 249 | 567 757           |        |                        |      |                                   |         |                          |  |       |  |
| Labour volume x1000 (fte)                |                             | 166                                       | 7                   | 112    | 15    | 61    | 6     | 57     | 28    | 25     | 20    | 83    | 27    | 19    | 69    | 36    | 174   | 22     | 30     | 505    | 5 593   | 7 055             |        |                        |      |                                   |         |                          |  |       |  |
| Intensity (m3 used per euro value added) |                             | 0,014                                     | 0,002               | 0,028  | 0,012 | 0,031 | 1,201 | 0,192  | 0,026 | 0,008  | 0,150 | 0,001 | 0,001 | 0,001 | 0,001 | 0,001 | 0,000 | 1,244  | 1,038  | 0,002  | 0,000   |                   |        |                        |      |                                   |         |                          |  |       |  |

<sup>\*)</sup> More detail, both for the industry level and for the activity of use, is available in the database for the water PSUT.

## Annex 2c Water Supply table (mln. m3), 2010 <sup>\*)</sup>

|                             |   | 1                                 | 2               | 3   | 4  | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16  | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24           | 25                         | 26      |
|-----------------------------|---|-----------------------------------|-----------------|---|--|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|---|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|--------------|----------------------------|---------|
|                             |   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco | Manufacture of textiles, wearing apparel and leather | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing products | Electricity, gas and steam supply | Water treatment and supply; sewerage, waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | RoW (Import) | Flows from the environment | Total   |
| FROM ENVIRONMENT TO ECONOMY | Total                                     | 1                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9926,7                     | 9926,7  |
|                             | Surface water                             | 2                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Non process                               | 3                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9926,7                     | 9926,7  |
|                             | Process                                   | 4                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 1066,1                     | 1066,1  |
|                             | Groundwater                               | 5                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 19,8                       | 19,8    |
|                             | Non process                               | 6                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 1050,6                     | 1050,6  |
|                             | Process                                   | 7                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 4210,2                     | 4210,2  |
|                             | Sea water                                 | 8                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Non process                               | 9                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 4182,8                     | 4182,8  |
|                             | Process                                   | 10                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 27,8                       | 27,8    |
| WITHIN THE ECONOMY          | Extraction                                | 11                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 1091,1            |                        |              | 10,7         | 1101,8                     | 1101,8  |
|                             | in product                                | 12                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 813,9             |                        |              | 10,7         | 824,6                      | 824,6   |
|                             | Drinking water                            | 13                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 277,2             |                        |              |              | 277,2                      | 277,2   |
|                             | Non process                               | 14                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 80,3              |                        |              | 0,0          | 80,3                       | 80,3    |
|                             | Process                                   | 15                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Industry water                            | 16                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 80,3              |                        |              |              | 80,3                       | 80,3    |
|                             | Non process                               | 17                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 64,4              |                        |              |              | 64,4                       | 64,4    |
|                             | Process                                   | 18                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 359,8             |                        |              |              | 359,8                      | 359,8   |
|                             | Water from products                       | 19                                | 31,4            | 4,2   | 20,3   | 0,0                                    | 0,7  | 0,0  | 0,2   | 0,0  | 1,5                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,0                               | 0,0  | 0,0          | 0,0      | 1,1               | 3,3                    | 1,7          | 0,0          | 64,4                       | 64,4    |
|                             | To waste water collection and - treatment | 20                                | 6,7             | 0,3   | 97,8   | 3,1                                    | 12,4   | 13,0   | 47,7  | 13,3   | 5,4                         | 20,7  | 3,4  | 5,3                                 | 0,8   | 3,7                                | 1,8   | 1,3                               | 15,1   | 9,1          | 7,5      | 91,1              | 359,8                  | 719,8        | 0,0          | 0,0                        | 1079,5  |
| FROM ECONOMY TO ENVIRONMENT | Waste water                               | 21                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |
|                             | Own treatment                             | 22                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 4,0               |                        |              |              | 4,0                        | 4,0     |
|                             | To industry (reused water)                | 23                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 4,0               |                        |              | 0,0          | 4,0                        | 4,0     |
|                             | fresh surface water                       | 24                                | 34,8            | 0,2   | 181,9  | 0,0                                    | 61,2   | 715,0  | 1643,9                                      | 5,6  | 5,5                         | 42,6  | 1,3  | 0,1                                 | 0,2   | 0,5                                | 0,9   | 0,3                               | 5658,9   | 2396,6       | 12,2     | 16,9              | 10778,6                | 3,0          |              | 10781,5                    | 10781,5 |
| Return Flow s               | 25  | 0,0                               | 27,3            | 9,1   | 0,0  | 0,0                                    | 0,0  | 429,7  | 0,0   | 0,0  | 190,8                       | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 3551,0                            | 151,9  | 0,0          | 0,0      | 4360,1            |                        |              | 4360,1       | 4360,1                     |         |
| Marine water                | 26  | 56,1                              | 0,0             | 0,0   | 0,0  | 0,0                                    | 0,0  | 1,7  | 0,0   | 0,0  | 0,0                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 1,1                               | 0,8  | 13,3         | 19,8     | 92,8              | 1,5                    |              | 94,3         | 94,3                       |         |
| Soil                        | 27  | 77,0                              | 0,7             | 16,6  | 0,2  | 18,1                                   | 38,3   | 111,7  | 1,0   | 0,9  | 13,4                        | 0,2   | 0,3  | 0,1                                 | 0,2   | 0,1                                | 0,1   | 485,6                             | 50,5   | 4,1          | 16,5     | 835,6             | 62,0                   |              | 897,6        | 897,6                      |         |
| to atmosphere               | 28  |                                   |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          |                   |                        |              |              |                            |         |
| Total row 1-24              | 29  | 206,1                             | 32,7            | 325,7   | 3,3  | 92,4                                   | 766,4  | 2234,9   | 19,9  | 13,3   | 267,5                       | 5,0   | 5,7  | 1,1                                 | 4,4   | 2,8                                | 1,7   | 9711,8                            | 3785,4   | 40,5         | 146,1    | 17666,8           | 786,2                  |              | 10,7         | 15230,8                    | 33694,5 |
| Total Supply                | 30  | 206,1                             | 32,7            | 325,7   | 3,3  | 92,4                                   | 766,4  | 2234,9   | 19,9  | 13,3   | 267,5                       | 5,0   | 5,7  | 1,1                                 | 4,4   | 2,8                                | 1,7   | 9711,8                            | 3785,4   | 40,5         | 146,1    | 17666,8           | 786,2                  |              | 10,7         | 15230,8                    | 33694,5 |
| Total Use                   | 31  | 206,1                             | 32,7            | 325,7   | 3,3  | 92,4                                   | 766,4  | 2234,9   | 19,9  | 13,3   | 267,5                       | 5,0   | 5,7  | 1,1                                 | 4,4   | 2,8                                | 1,7   | 9711,8                            | 3785,4   | 40,5         | 146,1    | 17666,8           | 786,2                  |              | 3,3          | 16133,6                    | 34589,8 |
| Value added (mln euro)      | 32  | 10 828                            | 17 283          | 11 507  | 1 033  | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253   | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |              |              |                            |         |
| Labour volume x1000 (fte)   | 33  | 166                               | 7               | 112   | 15   | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174   | 22                                | 30   | 505          | 5 593    | 7 055             |                        |              |              |                            |         |

<sup>\*)</sup> More detail, both for the industry level and for the activity of supply, is available in the database for the water PSUT.

### Annex 2d Water Use table (mln. m3), 2010 <sup>\*)</sup>

|  |                             |   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco | Manufacture of textiles, wearing apparel and leather | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing | Electricity, gas and steam supply | Water treatment and supply, sewerage, waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation & other final demand | RoW (Export) | Flows to the environment | Total   |         |        |     |     |  |        |        |        |        |        |         |         |        |
|--|-----------------------------|---|-----------------------------------|-----------------|---|--|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|--|--------------|----------|-------------------|------------------------|-----------------------------------|--------------|--------------------------|---------|---------|--------|-----|-----|--|--------|--------|--------|--------|--------|---------|---------|--------|
|  |                             |   | 1                                 | 2               | 3   | 4  | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18   | 19           | 20       | 21                | 22                     | 23                                | 24           | 26                       | 27      |         |        |     |     |  |        |        |        |        |        |         |         |        |
| FROM ENVIRONMENT TO ECONOMY              | Surface water               | Total                                     | 1                                 | 26,3            | 0,8   | 167,7  | 0,2                                    | 76,1   | 740,9  | 1721,4                                      | 5,9  | 1,6                         | 23,6  | 1,2  | 0,1                                 | 0,2   | 0,5                                | 0,9  | 0,2                               | 6136,0   | 1023,2       |          |                   |                        |                                   |              |                          |         |         | 9926,7 | 0,0 |     |  | 9926,7 |        |        |        |        |         |         |        |
|  |                             | Non process                               | 2                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        | 0,0                               | 0,0          |                          |         |         |        |     | 0,0 |  |        |        |        |        |        |         |         |        |
|  |                             | Process                                   | 3                                 | 26,3            | 0,8   | 167,7  | 0,2                                    | 76,1   | 740,9  | 1721,4                                      | 5,9  | 1,6                         | 23,6  | 1,2  | 0,1                                 | 0,2   | 0,5                                | 0,9  | 0,2                               | 6136,0   | 1023,2       |          |                   |                        |                                   |              |                          |         |         |        |     |     |  | 9926,7 | 0,0    |        | 9926,7 |        |         |         |        |
|  | Ground water                | Total                                     | 4                                 | 97,5            | 0,1   | 56,9   | 1,6                                    | 12,1   | 0,0  | 21,9  | 9,3  | 5,1                         | 18,9  | 0,9  | 2,5                                 | 0,1   | 0,7                                | 0,2  | 0,3                               | 5,2  | 763,0        | 31,2     | 38,7              | 1066,1                 | 0,0                               |              |                          |         |         |        |     |     |  | 1066,1 | 0,0    |        | 1066,1 |        |         |         |        |
|  |                             | Non process                               | 5                                 | 2,5             | 0,0   | 0,2  | 0,0                                    | 0,0  | 0,0  | 4,0   | 0,0  | 1,1                         | 4,8   | 0,0  | 0,0                                 | 0,0   | 0,2                                | 0,0  | 0,0                               | 0,0  | 0,0          | 0,0      | 0,5               | 6,4                    | 19,8                              | 0,0          |                          |         |         |        |     |     |  | 19,8   | 0,0    |        | 19,8   |        |         |         |        |
|  |                             | Process                                   | 6                                 | 95,0            | 0,0   | 58,5   | 1,7                                    | 12,4   | 0,0  | 18,6  | 9,6  | 4,2                         | 14,7  | 0,9  | 2,6                                 | 0,1   | 0,5                                | 0,2  | 0,3                               | 5,3  | 763,0        | 30,6     | 32,3              | 1050,6                 | 0,0                               |              |                          |         |         |        |     |     |  |        | 1050,6 | 0,0    |        | 1050,6 |         |         |        |
|  | Sea water                   | Total                                     | 7                                 | 0,0             | 27,3  | 9,1  | 0,0                                    | 0,0  | 0,0  | 429,7                                       | 0,0  | 0,0                         | 190,8   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 0,0  | 3551,0       | 2,1      |                   | 4210,2                 | 0,0                               |              |                          |         |         |        |     |     |  |        | 4210,2 | 0,0    |        | 4210,2 |         |         |        |
|  |                             | Non process                               | 8                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        | 0,0                               | 0,0          |                          |         |         |        |     |     |  | 0,0    | 0,0    |        | 0,0    |        |         |         |        |
|  |                             | Process                                   | 9                                 | 0,0             | 0,0   | 9,1  | 0,0                                    | 0,0  | 0,0  | 429,7                                       | 0,0  | 0,0                         | 190,8   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 0,0  | 3551,0       | 2,1      |                   | 4182,8                 | 0,0                               |              |                          |         |         |        |     |     |  |        |        | 4182,8 | 0,0    |        | 4182,8  |         |        |
|  | Extraction                  | Total                                     | 10                                | 27,2            | 0,0   | 0,0  | 0,0                                    | 0,0  | 0,0  | 0,0   | 0,0  | 0,7                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 0,0  | 0,0          | 0,0      | 0,0               | 27,8                   | 0,0                               |              |                          |         |         |        |     |     |  |        |        | 27,8   | 0,0    |        | 27,8    |         |        |
| in product                               |                             | 11  | 45,5                              | 4,1             | 60,0  | 1,5  | 3,1                                    | 13,7   | 34,9   | 4,7   | 3,6  | 2,0                         | 2,7   | 3,1  | 0,8                                 | 3,3   | 1,7                                | 1,1  | 8,5                               | 7,2  | 2,7          | 100,9    | 304,9             | 786,2                  |                                   |              |                          | 3,3     |         |        |     |     |  | 1094,4 | 0,0    |        | 1094,4 |        |         |         |        |
| WITHIN THE ECONOMY                       | Drinking water              | Non process                               | 12                                | 0,8             | 0,0   | 0,6  | 0,1                                    | 0,4  | 0,0  | 0,3   | 0,1  | 0,1                         | 0,1   | 0,4  | 0,2                                 | 0,1   | 0,4                                | 0,2  | 0,2                               | 0,0  | 0,0          | 0,3      | 23,2              | 27,7                   | 786,2                             |              |                          |         | 3,3     |        |     |     |  |        | 817,2  | 0,0    |        | 817,2  |         |         |        |
|  |                             | Process                                   | 13                                | 44,7            | 4,1   | 59,5   | 1,4                                    | 2,8  | 13,6   | 34,6  | 4,5  | 3,4                         | 1,9   | 2,3  | 2,8                                 | 0,7   | 2,9                                | 1,5  | 0,9                               | 8,4  | 7,1          | 2,4      | 77,7              | 277,2                  | 0,0                               |              |                          |         |         |        |     |     |  |        | 277,2  | 0,0    |        | 277,2  |         |         |        |
|  |                             | Total                                     | 14                                | 0,0             | 0,0   | 1,5  | 0,0                                    | 0,0  | 11,8   | 26,7  | 0,0  | 0,1                         | 31,2  | 0,1  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 8,9  | 0,1          |          |                   | 80,3                   | 0,0                               |              |                          |         |         | 0,0    |     |     |  |        |        | 80,3   | 0,0    |        | 80,3    |         |        |
|  | Industry water              | Non process                               | 15                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   | 0,0                    | 0,0                               |              |                          |         |         |        |     |     |  |        |        |        | 0,0    | 0,0    |         | 0,0     |        |
|  |                             | Process                                   | 16                                | 0,0             | 0,0   | 1,5  | 0,0                                    | 0,0  | 11,8   | 26,7  | 0,0  | 0,1                         | 31,2  | 0,1  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 8,9  | 0,1          |          |                   | 80,3                   | 0,0                               |              |                          |         |         | 0,0    |     |     |  |        |        |        | 80,3   | 0,0    |         | 80,3    |        |
|  | Water in products           | Total                                     | 17                                | 9,6             | 0,4   | 30,4   | 0,0                                    | 1,1  | 0,0  | 0,3   | 0,1  | 2,2                         | 1,0   | 0,0  | 0,0                                 | 0,0   | 0,1                                | 0,0  | 0,1                               | 2,3  | 1,5          | 6,6      | 6,4               | 62,2                   | 0,0                               |              |                          |         | 0,0     |        |     |     |  |        |        |        | 62,2   | 0,0    |         | 62,2    |        |
|  |                             | Water from products                       | 18                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  | 1984,5       |          |                   | 1984,5                 | 0,0                               |              |                          |         |         |        |     |     |  |        |        |        |        | 1984,5 | 0,0     |         | 1984,5 |
|  | Waste Water                 | To waste water collection and - treatment | 19                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   | 0,0                    | 0,0                               |              |                          |         |         |        |     |     |  |        |        |        |        | 0,0    | 0,0     |         | 0,0    |
|  |                             | Own treatment                             | 20                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   | 4,0                    | 4,0                               |              |                          |         |         |        |     |     |  |        |        |        |        | 4,0    | 0,0     |         | 4,0    |
|  | FROM ECONOMY TO ENVIRONMENT | Return Flows                              | fresh surface water               | 21              |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        | 0,0                               |              |                          |         |         |        |     |     |  |        |        |        |        |        |         | 0,0     |        |
| Marine water                             |                             |   | 22                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        | 10781,5 | 10781,5 |        |
| Soil                                     |                             |   | 23                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        | 4360,1  | 4360,1  |        |
| to atmosphere                            |                             |   | 24                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |  |              |          |                   |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        | 94,3    | 94,3    |        |
| Total row 1-24                           |                             | 25  | 206,1                             | 32,7            | 325,7   | 3,3  | 92,4                                   | 766,4  | 2234,9   | 19,9  | 13,3   | 267,5                       | 5,0   | 5,7  | 1,1                                 | 4,4   | 2,8                                | 1,7  | 9711,8                            | 3785,4   | 40,5         | 146,1    | 17666,8           | 786,2                  |                                   |              | 3,3                      | 16133,6 | 34589,8 |        |     |     |  |        |        |        |        |        |         |         |        |
| Total Use                                | Total Use                   |   | 206,1                             | 32,7            | 325,7   | 3,3  | 92,4                                   | 766,4  | 2234,9   | 19,9  | 13,3   | 267,5                       | 5,0   | 5,7  | 1,1                                 | 4,4   | 2,8                                | 1,7  | 9711,8                            | 3785,4   | 40,5         | 146,1    | 17666,8           | 786,2                  |                                   |              | 3,3                      | 16133,6 |         |        |     |     |  |        |        |        |        |        |         |         |        |
| Value added (mln euro)                   |                             |   | 10 828                            | 17 283          | 11 507  | 1 033  | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253  | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        |         |         |        |
| Labour volume x1000 (fte)                |                             |   | 166                               | 7               | 112   | 15   | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174  | 22                                | 30   | 505          | 5 593    | 7 055             |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        |         |         |        |
| Intensity (m3 used per euro value added) |                             |   | 0,019                             | 0,002           | 0,028   | 0,003  | 0,021                                  | 1,144  | 0,202  | 0,008                                       | 0,007  | 0,142                       | 0,001   | 0,001  | 0,001                               | 0,001   | 0,001                              | 0,000  | 1,330                             | 1,069  | 0,001        | 0,000    |                   |                        |                                   |              |                          |         |         |        |     |     |  |        |        |        |        |        |         |         |        |

<sup>\*)</sup> More detail, both for the industry level and for the activity of use, is available in the database for the water PSUT.

## Annex 2e Water Supply table (mln. m3), 2012 <sup>\*)</sup>

|                             |   | 1                                 | 2               | 3   | 4  | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16  | 17                                | 18   | 19           | 20       | 21                | 22                     | 23           | 24           | 25                         | 26      |         |
|-----------------------------|---|-----------------------------------|-----------------|---|--|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|---|-----------------------------------|--|--------------|----------|-------------------|------------------------|--------------|--------------|----------------------------|---------|---------|
|                             |   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco | Manufacture of textiles, wearing apparel and leather | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing products | Electricity, gas and steam supply | Water treatment and supply; sewerage, waste treatment and disposal | Construction | Services | Total column 1-20 | Consumption households | Accumulation | RoW (Import) | Flows from the environment | Total   |         |
| FROM ENVIRONMENT TO ECONOMY | Total                                     | 1                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9783,8                     | 9783,8  |         |
|                             | Surface water                             | 2                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |         |
|                             | Non process                               | 3                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 9783,8                     | 9783,8  |         |
|                             | Process                                   | 4                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 999,5                      | 999,5   |         |
|                             | Groundwater                               | 5                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 27,0                       | 27,0    |         |
|                             | Non process                               | 6                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 976,3                      | 976,3   |         |
|                             | Process                                   | 7                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 4287,9                     | 4287,9  |         |
|                             | Sea water                                 | 8                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |         |
|                             | Non process                               | 9                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 4258,3                     | 4258,3  |         |
| Process                     | 10  |                                   |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              | 0,0      |                   |                        |              | 27,8         | 27,8                       |         |         |
| WITHIN THE ECONOMY          | Drinking water                            | 11                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 1072,2            |                        |              |              | 11,5                       | 1083,7  |         |
|                             | Non process                               | 12                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 810,5             |                        |              |              | 11,5                       | 822,0   |         |
|                             | Process                                   | 13                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 261,8             |                        |              |              | 261,8                      | 261,8   |         |
|                             | Industry water                            | 14                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 77,8              |                        |              | 0,0          | 77,8                       | 77,8    |         |
|                             | Non process                               | 15                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 0,0               |                        |              |              | 0,0                        | 0,0     |         |
|                             | Process                                   | 16                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          | 77,8              |                        |              |              | 77,8                       | 77,8    |         |
|                             | Water from products                       | 17                                | 31,5            | 4,6   | 20,5   | 0,0                                    | 0,6  | 0,0  | 0,1   | 0,0  | 1,4                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,0                               | 0,0  | 0,0          | 0,0      | 64,3              | 0,0                    |              |              | 0,0                        | 64,3    |         |
|                             | To waste water collection and - treatment | 18                                | 6,1             | -0,7  | 98,4   | 5,3                                    | 14,3   | 10,8   | 46,6  | 12,2   | 5,4                         | 18,7  | 3,3  | 5,1                                 | 0,7   | 3,4                                | 1,6   | 1,2                               | 9,9  | 8,4          | 6,0      | 91,4              | 348,0                  | 724,2        |              | 0,0                        | 0,0     | 1072,2  |
|                             | Waste water                               | 19                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          |                   | 0,0                    |              |              |                            | 0,0     | 0,0     |
|                             | Own treatment                             | 20                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          |                   | 4,0                    |              |              |                            | 4,0     | 4,0     |
|                             | To industry (reused water)                | 21                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |   |                                   |  |              |          |                   | 4,0                    |              |              | 0,0                        | 4,0     | 4,0     |
|                             | FROM ECONOMY TO ENVIRONMENT               | Return Flow s                     | 22              | 19,9  | 0,1  | 205,7                                  | 0,1  | 63,3   | 716,5                                       | 1700,5   | 5,4                         | 5,5   | 40,2   | 1,4                                 | 0,1   | 0,2                                | 0,5   | 1,1                               | 0,2  | 5483,7       | 2402,4   | 9,3               | 15,6                   | 10671,7      | 2,9          |                            |         | 10674,6 |
| Marine water                | 23  | 0,0                               | 29,7            | 9,8   | 0,0  | 0,0                                    | 0,0  | 427,7  | 0,0   | 0,0  | 178,0                       | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 0,0                               | 3640,2   | 157,5        | 0,0      | 0,0               | 4442,8                 |              |              |                            | 4442,8  |         |
| Soil                        | 24  | 31,7                              | 0,0             | 0,0   | 0,0  | 0,0                                    | 0,0  | 2,0  | 0,0   | 0,0  | 0,0                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0   | 1,1                               | 0,4  | 10,3         | 18,6     | 64,0              | 1,5                    |              |              |                            | 65,5    |         |
| to atmosphere               | 25  | 50,3                              | 0,7             | 17,9  | 0,3  | 19,2                                   | 38,3   | 114,6  | 0,9   | 0,9  | 12,5                        | 0,3   | 0,3  | 0,0                                 | 0,2   | 0,1                                | 0,1   | 480,8                             | 71,2   | 3,7          | 16,8     | 829,0             | 54,4                   |              |              |                            | 883,4   |         |
| Total row 1-24              | 25  | 139,6                             | 34,4            | 352,3   | 5,6  | 97,5                                   | 765,5  | 2291,4   | 18,5  | 13,2   | 249,3                       | 5,0   | 5,4  | 1,0                                 | 4,1   | 2,8                                | 1,5   | 9615,7                            | 3794,9   | 32,4         | 143,7    | 17573,9           | 783,0                  |              | 11,5         | 15099,0                    | 33467,5 |         |
| Total Supply                | Total Supply                              | 139,6                             | 34,4            | 352,3   | 5,6  | 97,5                                   | 765,5  | 2291,4   | 18,5  | 13,2   | 249,3                       | 5,0   | 5,4  | 1,0                                 | 4,1   | 2,8                                | 1,5   | 9615,7                            | 3794,9   | 32,4         | 143,7    | 17573,9           | 783,0                  |              | 11,5         | 15099,1                    | 33467,5 |         |
| Total Use                   | Total Use                                 | 139,6                             | 34,4            | 352,3   | 5,6  | 97,5                                   | 765,5  | 2291,4   | 18,5  | 13,2   | 249,3                       | 5,0   | 5,4  | 1,0                                 | 4,1   | 2,8                                | 1,5   | 9615,7                            | 3794,9   | 32,4         | 143,7    | 17573,9           | 783,0                  |              | 2,2          | 16066,3                    | 34425,4 |         |
| Value added (mln euro)      |   | 10 828                            | 17 283          | 11 507  | 1 033  | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253   | 7 301                             | 3 541  | 30 531       | 431 249  | 567 757           |                        |              |              |                            |         |         |
| Labour volume x1000 (fte)   |   | 166                               | 7               | 112   | 15   | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174   | 22                                | 30   | 505          | 5 593    | 7 055             |                        |              |              |                            |         |         |

<sup>\*)</sup> More detail, both for the industry level and for the activity of supply, is available in the database for the water PSUT.

## Annex 2f Water Use table (mln. m3), 2012 <sup>\*)</sup>

|  |   | Agriculture, forestry and fishing | Mining industry | Manufacture of food products, beverages and tobacco | Manufacture of textiles, wearing apparel and leather | Manufacture of wood and paper products | Manufacture of coke and refined petroleum products | Manufacture of chemicals and pharmaceutical products | Manufacture of rubber and plastics products | Manufacture of other non-metallic mineral products | Manufacture of basic metals | Manufacture of metal products, except machinery | Manufacture of computer, electronic and optical products | Manufacture of electrical equipment | Manufacture of machinery and equipment n.e.c. | Manufacture of transport equipment | Manufacture of furniture and other manufacturing | Electricity, gas and steam supply | Water treatment and supply, sewerage, waste treatment | Construction | Services | Total column 1-20 | Consumption households | Accumulation & other final demand | RoW (Export) | Flows to the environment | Total   |
|--|---|-----------------------------------|-----------------|---|--|--|--|--|---|--|-----------------------------|---|--|-------------------------------------|---|------------------------------------|--|-----------------------------------|---|--------------|----------|-------------------|------------------------|-----------------------------------|--------------|--------------------------|---------|
|  |   | 1                                 | 2               | 3   | 4  | 5                                      | 6  | 7  | 8   | 9  | 10                          | 11  | 12   | 13                                  | 14  | 15                                 | 16   | 17                                | 18  | 19           | 20       | 21                | 22                     | 23                                | 24           | 26                       | 27      |
| FROM ENVIRONMENT TO ECONOMY              | Total                                     | 1                                 | 6,4             | 0,7   | 196,0  | 3,4                                    | 78,8   | 742,9  | 1783,6                                      | 5,6  | 1,5                         | 20,2  | 1,4  | 0,1                                 | 0,2   | 0,5                                | 1,2  | 0,2                               | 5956,8  | 984,4        |          | 9783,8            | 0,0                    |                                   |              |                          | 9783,8  |
|  | Surface water                             | 2                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               | 0,0                    |                                   |              |                          | 0,0     |
|  | Non process                               | 3                                 | 6,4             | 0,7   | 196,0  | 3,4                                    | 78,8   | 742,9  | 1783,6                                      | 5,6  | 1,5                         | 20,2  | 1,4  | 0,1                                 | 0,2   | 0,5                                | 1,2  | 0,2                               | 5956,8  | 984,4        |          | 9783,8            | 0,0                    |                                   |              |                          | 9783,8  |
|  | Process                                   | 4                                 | 54,4            | 0,1   | 51,7   | 1,5                                    | 14,7   | 0,0  | 21,7  | 9,1  | 5,5                         | 17,2  | 1,5  | 2,6                                 | 0,1   | 0,7                                | 0,2  | 0,3                               | 4,8   | 754,9        | 23,5     | 35,2              | 999,5                  | 0,0                               |              |                          | 999,5   |
|  | Ground water                              | 5                                 | 8,0             | 0,0   | 0,2  | 0,0                                    | 0,0  | 0,0  | 4,5   | 0,0  | 1,1                         | 3,4   | 0,0  | 0,0                                 | 0,0   | 0,2                                | 0,0  | 0,0                               | 0,0   | 0,0          | 0,3      | 9,3               | 27,0                   | 0,0                               |              |                          | 27,0    |
|  | Non process                               | 6                                 | 46,4            | 0,0   | 52,9   | 1,5                                    | 15,1   | 0,0  | 17,8  | 9,4  | 4,6                         | 14,3  | 1,6  | 2,6                                 | 0,1   | 0,5                                | 0,2  | 0,3                               | 4,9   | 754,9        | 23,2     | 25,9              | 976,3                  | 0,0                               |              |                          | 976,3   |
|  | Process                                   | 7                                 | 0,0             | 29,7  | 9,8  | 0,0                                    | 0,0  | 0,0  | 427,7                                       | 0,0  | 0,0                         | 178,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 3640,2  | 2,6          |          | 0,0               | 4287,9                 | 0,0                               |              |                          | 4287,9  |
|  | Sea water                                 | 8                                 |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          |                   | 0,0                    | 0,0                               |              |                          | 0,0     |
|  | Non process                               | 9                                 | 0,0             | 0,0   | 9,8  | 0,0                                    | 0,0  | 0,0  | 427,7                                       | 0,0  | 0,0                         | 178,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 3640,2  | 2,6          |          | 0,0               | 4258,3                 | 0,0                               |              |                          | 4258,3  |
|  | Process                                   | 10                                | 27,2            | 0,0   | 0,0  | 0,0                                    | 0,0  | 0,0  | 0,0   | 0,0  | 0,7                         | 0,0   | 0,0  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 0,0   | 0,0          | 0,0      | 0,0               | 27,8                   | 0,0                               |              |                          | 27,8    |
| Extraction                               | 11  | 41,3                              | 3,5             | 62,0  | 0,7  | 3,0                                    | 11,3   | 33,2   | 3,7   | 3,3  | 1,5                         | 2,0   | 2,8  | 0,7                                 | 2,9   | 1,5                                | 0,9  | 3,2                               | 6,9   | 2,6          | 102,3    | 289,2             | 783,0                  |                                   | 2,2          | 1074,4                   |         |
| WITHIN THE ECONOMY                       | Drinking water                            | 12                                | 0,8             | 0,0   | 0,6  | 0,1                                    | 0,3  | 0,0  | 0,3   | 0,1  | 0,1                         | 0,1   | 0,4  | 0,2                                 | 0,1   | 0,4                                | 0,2  | 0,0                               | 0,0   | 0,3          | 23,1     | 27,4              | 783,0                  |                                   | 2,2          | 812,7                    |         |
|  | Non process                               | 13                                | 40,6            | 3,4   | 61,5   | 0,6                                    | 2,7  | 11,3   | 32,9  | 3,5  | 3,1                         | 1,4   | 1,6  | 2,6                                 | 0,6   | 2,5                                | 1,3  | 0,7                               | 3,2   | 6,9          | 2,3      | 79,2              | 261,8                  | 0,0                               |              | 261,8                    |         |
|  | Process                                   | 14                                | 0,0             | 0,0   | 1,7  | 0,0                                    | 0,0  | 11,3   | 25,0  | 0,0  | 0,1                         | 31,4  | 0,1  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 8,3   | 0,1          |          | 77,8              | 0,0                    |                                   | 0,0          | 77,8                     |         |
|  | Total                                     | 15                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               | 0,0                    |                                   |              | 0,0                      |         |
|  | Industry water                            | 16                                | 0,0             | 0,0   | 1,7  | 0,0                                    | 0,0  | 11,3   | 25,0  | 0,0  | 0,1                         | 31,4  | 0,1  | 0,0                                 | 0,0   | 0,0                                | 0,0  | 0,0                               | 8,3   | 0,1          |          | 77,8              | 0,0                    |                                   | 0,0          | 77,8                     |         |
|  | Non process                               | 17                                | 10,3            | 0,5   | 31,2   | 0,1                                    | 1,0  | 0,0  | 0,3   | 0,1  | 2,2                         | 1,0   | 0,0  | 0,0                                 | 0,0   | 0,1                                | 0,0  | 0,1                               | 2,4   | 1,7          | 6,3      | 6,1               | 63,4                   | 0,0                               |              | 0,0                      | 63,4    |
|  | Process                                   | 18                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          |                   | 2040,3                 |                                   |              |                          | 2040,3  |
|  | Water in products                         | 19                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          |                   | 0,0                    |                                   |              |                          | 0,0     |
|  | To waste water collection and - treatment | 20                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          |                   | 4,0                    |                                   |              |                          | 4,0     |
|  | Own treatment                             | 21                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          |                   | 0,0                    |                                   |              |                          | 0,0     |
| FROM ECONOMY TO ENVIRONMENT              | Return Flow s                             | 22                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               |                        |                                   |              | 10674,6                  | 10674,6 |
|  | fresh surface water                       | 23                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               |                        |                                   |              | 4442,8                   | 4442,8  |
|  | Marine water                              | 24                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               |                        |                                   |              | 65,5                     | 65,5    |
|  | Soil                                      | 25                                |                 |   |  |  |  |  |   |  |                             |   |  |                                     |   |                                    |  |                                   |   |              |          | 0,0               |                        |                                   |              | 883,4                    | 883,4   |
| Total row 1-24                           | 25  | 139,6                             | 34,4            | 352,3   | 5,6  | 97,5                                   | 765,5  | 2291,4   | 18,5  | 13,2   | 249,3                       | 5,0   | 5,4  | 1,0                                 | 4,1   | 2,8                                | 1,5  | 9615,7                            | 3794,9  | 32,4         | 143,7    | 17573,9           | 783,0                  |                                   | 2,2          | 16066,3                  | 34425,4 |
| Total Use                                | Total Use                                 | 139,6                             | 34,4            | 352,3   | 5,6  | 97,5                                   | 765,5  | 2291,4   | 18,5  | 13,2   | 249,3                       | 5,0   | 5,4  | 1,0                                 | 4,1   | 2,8                                | 1,5  | 9615,7                            | 3794,9  | 32,4         | 143,7    | 17573,9           | 783,0                  |                                   | 2,2          | 16066,3                  |         |
| Value added (mln euro)                   |   | 10 828                            | 17 283          | 11 507  | 1 033  | 4 416                                  | 670  | 11 051   | 2 362                                       | 1 867  | 1 888                       | 5 966   | 4 453  | 2 001                               | 7 837   | 3 720                              | 8 253  | 7 301                             | 3 541   | 30 531       | 431 249  | 567 757           |                        |                                   |              |                          |         |
| Labour volume x1000 (fte)                |   | 166                               | 7               | 112   | 15   | 61                                     | 6  | 57   | 28  | 25   | 20                          | 83  | 27   | 19                                  | 69  | 36                                 | 174  | 22                                | 30  | 505          | 5 593    | 7 055             |                        |                                   |              |                          |         |
| Intensity (m3 used per euro value added) |   | 0,013                             | 0,002           | 0,031   | 0,005  | 0,022                                  | 1,143  | 0,207  | 0,008                                       | 0,007  | 0,132                       | 0,001   | 0,001  | 0,000                               | 0,001   | 0,001                              | 0,000  | 1,317                             | 1,072   | 0,001        | 0,000    |                   |                        |                                   |              |                          |         |

<sup>\*)</sup> More detail, both for the industry level and for the activity of use, is available in the database for the water PSUT.

### Annex 3a: Commodities (in Dutch)

|        |               |         |                  |         |                   |
|--------|---------------|---------|------------------|---------|-------------------|
| 111100 | Tarwe         | 1081990 | Suiker en bijpr. | 2059100 | Fotochem.pr.      |
| 111200 | Maïs          | 1082010 | Chocoladepr.     | 2059990 | Ov. Chem. Pr.     |
| 111310 | Gerst         | 1082020 | Suikerwerk ed    | 2110990 | Farm grnst. Verb. |
| 111340 | Ov. granen    | 1082199 | Cacaoprod.       | 2120100 | Geneesmiddel      |
| 111700 | Peulvruchten  | 1083090 | Koffie en thee   | 2120999 | Ov. Farm. Pr. ed  |
| 111810 | Sojabonen     | 1084000 | Specery/saus     | 2219900 | Rub. Prod. Band   |
| 111823 | Grondnoten    | 1085000 | BereidMaalt      | 2221290 | Sta/slan.kst      |
| 111899 | Ov.olieh.zad  | 1086000 | Kind-/dieetv     | 2221300 | Pla.ongec.k       |
| 113120 | Koolsoorten   | 1089110 | Soepen           | 2221400 | Ov.platen ks      |
| 113310 | Paprika's     | 1089123 | Ov.bakk.grst     | 2222000 | Verpak. kst.      |
| 113320 | Komkommers    | 1089190 | Voed.mid.neg     | 2223000 | Bouwart.knst      |
| 113340 | Tomaten       | 1091019 | Veevoeders       | 2229000 | Ov.prod.kst.      |
| 113430 | Uien          | 1091020 | K.kalvermelk     | 2312199 | Prod.vlaktglas    |
| 113511 | Pootaardapp.  | 1092000 | Hond/katvoer     | 2313199 | Flessen ed.       |
| 113512 | Cons.aardapp  | 1101000 | Gedistilleer     | 2314990 | Ov.bew.glas       |
| 113513 | Zetm.aardapp  | 1102340 | Wijn ed.         | 2323400 | Ov. keram.pr      |
| 113529 | Ov.b.k.w.gew  | 1107110 | Fris/waters      | 2339000 | Ker. Bwmat/tgls   |
| 113690 | Zaaizaden     | 1107190 | Ov.frdr.melk     | 2361110 | Stenen beton      |
| 113710 | Suikerbieten  | 1109000 | Bier en mout     | 2361199 | Ov.betonwaar      |
| 113800 | Champignons   | 1200900 | Rookwaar         | 2361900 | Bwelem.beton      |
| 113990 | Ov.groenten   | 1310000 | Garen/Vezel      | 2363400 | Beton/mortel      |
| 115100 | Tabak         | 1320000 | Weefsels         | 2370000 | Bew.natuurst      |
| 116900 | Ov.plant.mat  | 1392110 | Beddengoed       | 2399000 | Ov. bouwmat       |
| 119100 | Voedergewas   | 1392500 | Text.woning      | 2439900 | IJzer en staal    |
| 119200 | Bloemen       | 1393000 | Tapijten         | 2442900 | Aluminium ed      |
| 123000 | Citrusfruit   | 1395100 | Textl.vlies      | 2444900 | Koper ed          |
| 124100 | Appels        | 1399000 | Ov.textl.war     | 2449199 | Non ferro neg     |
| 124590 | Ov.fruit      | 1419900 | Kleding          | 2459000 | Gieten metal      |
| 125690 | Noten ea fr.  | 1510000 | Lederwrn/leer    | 2511000 | Constr.werk       |
| 127110 | Koffie ongebe | 1520000 | Schoenen         | 2512000 | Constrw.bouw      |
| 127140 | Cacaobonen    | 1610000 | Hout primair     | 2521100 | Cv.ketels/rad     |
| 127890 | Gewassen neg  | 1621100 | Triplex ed.      | 2521900 | Tanks/reserv      |
| 130110 | Bloembollen   | 1621200 | Fineer/plaat     | 2540000 | Wapen/munit.      |
| 130129 | Boom/pl.kwek  | 1623111 | Ramen kozijn     | 2550000 | Smeden metal      |
| 141190 | Runderen      | 1623112 | Deuren           | 2560000 | Ov.metaalbew      |
| 141290 | Rauwe melk    | 1623120 | Ov.timmerwer     | 2572000 | Hang/sluitw       |
| 142120 | Kalveren      | 1624000 | Emball. hout     | 2573490 | Ond.gereeds.      |
| 143459 | Ov. dieren    | 1629900 | Houtprod. neg    | 2591290 | Vaten             |
| 146110 | Varkens       | 1711000 | Pulp             | 2593900 | Spyker/draad      |
| 146120 | Biggen        | 1712100 | Pap. Karton neg  | 2594900 | Bout/moer ed      |
| 147100 | Pluimvee      | 1712300 | Pa/Ka verpak     | 2599100 | Met.hh.san.       |
| 147200 | Eieren        | 1721000 | Emball.pa/ka     | 2599290 | Metaalpr. neg     |
| 149290 | Ov.dierl.pr.  | 1722990 | Ov. verband      | 2619900 | Elec. Comp. neg   |



|         |                 |         |                  |         |                     |
|---------|-----------------|---------|------------------|---------|---------------------|
| 149390  | Wol/Huid,ruw    | 1723000 | Kant.ben.pap     | 2620000 | ComputRandapp       |
| 160000  | Agrar. dnstn    | 1729900 | Ov. p/k waren    | 2630900 | Med. Meet/regelapp  |
| 200000  | Bosbouw         | 1811000 | Druk.dagbl.iov   | 2630900 | Zend app. ed        |
| 300000  | Verse vis       | 1813040 | Zetten/graf. Afw | 2640900 | Radio TV Audio ed   |
| 500000  | Steenkool ed    | 1819000 | Ov.druk/print    | 2670200 | Optische art        |
| 610110  | Aardolie ruw    | 1910000 | CokesprodPek     | 2680000 | Infodra.leeg        |
| 610120  | Aardgascond.    | 1920211 | Benzine          | 2711000 | Elmo/tra/ond        |
| 620000  | Aardgas         | 1920231 | Nafta's          | 2712900 | Schakel/verd/ond    |
| 710000  | IJzererts       | 1920241 | Jetfuel          | 2739000 | Geisol.kabel        |
| 720000  | Ov.n-Fe erts    | 1920261 | Gasolie grst     | 2740000 | Verlicht.art/ond    |
| 811000  | Natuursteen     | 1920263 | Gasolie verw     | 2759900 | El. App. Hh/ond neg |
| 812110  | Zand            | 1920270 | Petroleum        | 2799000 | El. App. Ed. neg    |
| 812120  | Grind           | 1920289 | Diesel/stookolie | 2809100 | Ond. Machines       |
| 812200  | Klei            | 1920290 | Smeerolie        | 2811000 | Turbin/motor        |
| 891000  | Mineral.chem    | 1920311 | Prop./butaan     | 2812000 | Pomp/compres        |
| 892000  | Turf            | 1920312 | Autogas(lpg)     | 2814000 | Kranen ed.          |
| 899900  | Ov. Delfstoffen | 1920320 | Ov. gassen       | 2820900 | Ov.ma.algem.        |
| 900000  | Exploratie      | 1920490 | PetrResidu ed    | 2822100 | Hefwerk             |
| 1011119 | Kalf-/rundvl    | 2011000 | Ind. Gassen      | 2823000 | Kantoormach.        |
| 1011129 | Varkensvlees    | 2012000 | Kleurstoffen     | 2825000 | Machine koel        |
| 1011191 | Ov. vlees       | 2013100 | Splijt/kweek     | 2829129 | Tst. filter         |
| 1011192 | Ov.slachtpr.    | 2013240 | Zuren            | 2829210 | Ma.rein/verp        |
| 1012000 | Pluimv.vlees    | 2013890 | Ov.zouten        | 2830000 | Mach.landbw.        |
| 1013123 | Bewrkt vlees    | 2013990 | Anorg.gst ed     | 2840000 | Ma.(n)-verspan      |
| 1013450 | Ov.vleesprod    | 2014113 | Ethyleen         | 2892000 | Ma.delf/bouw        |
| 1019001 | N.eetb.sl.af    | 2014114 | Propyleen        | 2893000 | Mach.voeding        |
| 1020000 | Bewerkte vis    | 2014118 | Koolw.open.      | 2894090 | Mach.ov.indu        |
| 1031000 | Aardappelpr.    | 2014122 | Benzeen          | 2896000 | Mach.rub/kst        |
| 1032000 | Vruchtensap     | 2014125 | Styreen          | 2899190 | Mach.druk/pap       |
| 1039110 | Diepvgrnte      | 2014129 | Ov.koolw.ges     | 2899299 | Mach. Tst. neg      |
| 1039190 | Bew.groenten    | 2014199 | Halog/Fenol      | 2910200 | Pers. auto's        |
| 1039210 | Fruitconserv    | 2014220 | Alcoholen        | 2910400 | Vr.auto's ed        |
| 1039290 | Ov.bew.fruit    | 2014300 | Carbonzuren      | 2910590 | Auto's neg          |
| 1041990 | Olie/Vet/Veekk  | 2014400 | Aminozuren       | 2920100 | Carrosserie         |
| 1042000 | Margarine ed    | 2014699 | Ethers ed        | 2920220 | Caravans ed.        |
| 1051111 | Ondermelk       | 2014730 | Aromaten         | 2939900 | Auto ond. neg       |
| 1051112 | Cons.melk       | 2014999 | Ov. orga gst ed  | 3011290 | Schepen neg         |
| 1051120 | Cons.room       | 2015990 | Kunstmest ed.    | 3011300 | Ov.drijv.mat        |
| 1051290 | Melkpoeder      | 2016400 | Polyacetaten     | 3012000 | Plezierboten        |
| 1051490 | Boter en kaas   | 2016510 | P.propyleen      | 3030900 | Trein Vlieg ond     |
| 1051510 | Gecond.melk     | 2016520 | Ov.polymeren     | 3030990 | Ond. vliegt.        |
| 1051521 | Yoghurt         | 2016540 | Polyamide        | 3091000 | MotFiets/ond        |
| 1051522 | Gist/zuurpr.    | 2016550 | Polyurethaan     | 3092000 | Fiets ed/ond        |
| 1051556 | Wei weiprod.    | 2016590 | Ov ksths rub ed  | 3099090 | Ov.transport        |
| 1051590 | Zuivelpr.neg    | 2020000 | Bestrijd.mid     | 3100100 | Zitmeubelen         |
| 1052000 | Cons. ijs       | 2030100 | Verf/vern.       | 3100200 | Meub.del+afw        |

|                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| 1061100 Rijst        | 2030240 Drukinkten    | 3101000 Bedrijfsmeub  |
| 1061240 Deegmengsels | 2030299 Ov.verfprod.  | 3102000 Keukenmeubel  |
| 1061290 Meel v.graan | 2041390 rein. mid. ed | 3103000 Matrassen     |
| 1061349 Ov.graanprod | 2042110 Parfums ed.   | 3109120 Meub.slaapk.  |
| 1062110 Zetmeel      | 2042120 Huidverz.mid  | 3109900 Ov.meubelen   |
| 1062900 Ov.zetm.prod | 2042160 Haarverz.mid  | 3210000 Sieradn/muntn |
| 1071110 Brood        | 2042199 Ov.kosm.prod  | 3230000 Sportartikel  |
| 1071120 Gebak/biscui | 2051000 Springstf ed  | 3250900 Med.artikel.  |
| 1072000 Ov.bakk.prod | 2052900 Lijmen/gelat  | 3299010 Teken/schryf  |
| 1073000 Deegwaren    | 2053000 Ether. olien  | 3299029 Artikel neg   |

#### Annex 4: Industrial branches (in Dutch)

|       |                 |       |               |       |                |
|-------|-----------------|-------|---------------|-------|----------------|
| 1109  | Akkerbouw       | 32129 | GoedrnOverig  | 64200 | Byz.Fin.Inst   |
| 1209  | Tuinbouw        | 32500 | Medischeprod  | 65000 | Verzek.wezen   |
| 1400  | Veehouderij     | 32991 | Socialwrkvz   | 66000 | Financ.hulpb   |
| 1500  | OverigLandbw    | 33000 | RepOndInstal  | 68130 | Makelaars og   |
| 1600  | Agrar.dnstv     | 35110 | Electrbdr ed  | 68204 | Expl. gebouw   |
| 2000  | Bosbouw         | 35120 | Expl.trspnet  | 68209 | Expl. woning   |
| 3000  | Visserij        | 35134 | Distr.energ.  | 69100 | Juridis.Dnst   |
| 6009  | AardolGas       | 36000 | Water         | 69200 | AccountBelst   |
| 8009  | Delfstoverig    | 37381 | MilieuOverh   | 70100 | HoldConcern    |
| 10112 | Slachterijen    | 37890 | MilieuPartic  | 70200 | Adviesburos    |
| 10130 | Vleesverwrk     | 38300 | Recyc/Sloop   | 71100 | Ingen.Archit   |
| 10200 | Visverwrk       | 41100 | Bouw Ontwik   | 71200 | Keur.Control   |
| 10310 | Aardapprod      | 41200 | Burg&Ut.bouw  | 72000 | Speur&Ontwik   |
| 10329 | GroentFruit     | 42000 | Bouw GWW      | 73000 | ReklMarktnd    |
| 10400 | Olie Vetten     | 43100 | Bouwrijp      | 74000 | ConsultFoto    |
| 10500 | Zuivelerv       | 43200 | Bouwinstal    | 75000 | Veterin.dnst   |
| 10670 | MeelBloembew    | 43319 | Bouwafwerk    | 77000 | LeaseVerhuur   |
| 10813 | KoffTheeSuik    | 43390 | Bouw overig   | 78000 | UitzendBemid   |
| 10820 | Cacaobewrk      | 45199 | AutoMtgrooth  | 79000 | ReisorgBemid   |
| 10849 | Ov.voeding      | 45299 | AutoDetServ   | 80000 | BeveilOpspor   |
| 10900 | Veevoeder       | 46100 | Handlsbemidd  | 81000 | ReinFacilHov   |
| 11000 | Drank           | 46290 | Ov.groothand  | 82000 | OvZak.Dnstn    |
| 12000 | Tabakverwrk     | 46770 | Recuperatie   | 84000 | Overheid       |
| 13450 | TexConfLeer     | 47199 | Detailhandel  | 85234 | Gesub.Onderw   |
| 16000 | Hout(-prod)     | 47300 | BenzineServ   | 85560 | PartOnderwys   |
| 17000 | Papier&waren)   | 49120 | Spoor vervr   | 86129 | ZiHu&medspec   |
| 18000 | DrukkerijRepr   | 49319 | Ov.openb.vrv  | 86219 | GGZ-Psych      |
| 19000 | OliePekCokes    | 49320 | Taxi vervoer  | 86299 | Zorgpraktijk   |
| 20190 | Chemie basis ed | 49450 | Goedrnvervr   | 86999 | MedisZorg ov   |
| 22900 | Chemie eind ed  | 50390 | Zee en binvrt | 87809 | VerplVerzThu   |
| 23199 | Ov bouwmater    | 51000 | Luchtvaart    | 87819 | Inst.gehandz   |
| 23600 | BetCmtprod      | 52129 | Ov.dnst.vrv   | 87899 | Jeugd Maats    |
| 24900 | Metaal          | 52220 | Water dnstv   | 88199 | Overig welzijn |
| 25100 | Metaalconstr    | 52230 | Lucht dnstv   | 90910 | KnstTheatBib   |
| 25290 | Ov.metaalpro    | 53000 | Post&Koerier  | 92000 | Gokwezen       |
| 26000 | AudVidComMrg    | 55000 | HorecaLogies  | 93000 | SportOntspan   |
| 27000 | El.ma&hh.app    | 56000 | HorecaFood    | 94000 | WgWn/Fondsen   |
| 28000 | Machinprod      | 58000 | Uitgeverijen  | 95000 | Repar.partic   |
| 29000 | Autoindustr     | 59060 | TVFilmRadPro  | 96000 | Ov.PersDnst    |
| 30100 | Scheepsbouw     | 61000 | Telecom       | 97000 | Huish.dnstn    |
| 30230 | Rail Vliegtg    | 62000 | Computsrvice  | 99991 | ConsumInterm   |
| 30490 | Trnspmoverig    | 63000 | WebsPers      |       |                |
| 31000 | MeubelMatras    | 64199 | Bankwezen     |       |                |

## **Annex 5: Waste and flows to and from the environment (in Dutch)**

### **Afvalcategorieën**

Chemisch afval

Metaal afval

Ferro

Niet-Ferro

Mixed metaal

Niet-metaal afval

Glas

Papier

Rubber

Plastic

Hout

Textiel

Overige

Afgedankt materiaal

Dierlijk en plantaardig afval

Gemengd afval

Slib

Mineraal afval

### **Stromen uit het milieu**

O<sub>2</sub> voor verbranding

O<sub>2</sub> voor ademhaling

N voor Haber-Bosch proces

### **Stromen naar het milieu**

CO<sub>2</sub> uit verbrandingsprocessen

H<sub>2</sub>O uit verbrandingsprocessen

CO<sub>2</sub> uit ademhaling

H<sub>2</sub>O uit ademhaling

## Annex 6: Extraction (in Dutch)

|                         |   |
|-------------------------|---|
| Biomassa                | Gewassen (exclusief veevoer)<br>Veevoer gewassen<br>Hout<br>Wilde vis   |
| Niet-metaal mineralen   | Zout<br>Kalksteen<br>Klei<br>Zand en gravel (voor gebruik in industrie) |
| Fossiele energiedragers | Natuurlijk gas<br>Aardolie  |

